Demonstratives in ?ay?ajੱuθəm¹

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Abstract: In this paper, we provide a first detailed description and analysis of the demonstrative system in ?ay?ajuθəm (a.k.a. Comox-Sliammon; ISO 639-3: coo), a Coast Salish language spoken along the northern Strait of Georgia in British Columbia, Canada. Drawing from previous research (Boas 1890; Davis 1978; Harris 1981; Watanabe 2003) and original fieldwork with five speakers, we set out to (i) map the demonstrative inventory, (ii) survey the syntactic distribution of the individual forms, and (iii) examine their semantics and pragmatics. We will show that the demonstratives in ?ay?ajuθəm not only encode deictic distance, but also evidentiality, gender, and number. The distribution of the different paradigms also tracks whether or not joint attention has been established between the speech participants. Particularly, the latter notion is of interest as it requires the incorporation of gesture into the analysis. The insights presented in this paper will hopefully both prove useful to language learners navigating the remarkably rich demonstrative system of ?ay?ajuθəm and also draw attention to the role of gesture in communication — a field of research which has not previously figured in the Salish literature (though see Webb [this volume]).

Keywords: demonstrative, evidentiality, gesture, deixis, ?ay?aju0am (Comox-Sliammon)

1 Introduction

This paper provides a first detailed survey of the demonstrative system in ?ay?ajuθəm (a.k.a. Comox-Sliammon; ISO 639-3: coo), a Coast Salish language spoken along the northern Strait of Georgia in British Columbia, Canada. Demonstratives are words that allow the speaker to identify an entity or a location, such as *this, that, here,* and *there* in English. As we will show, the demonstrative system of ?ay?ajuθəm is significantly richer in forms than the English one, allowing speakers to make more fine-grained distinctions. Based on original fieldwork data as well as previous descriptions (Boas 1890; Davis 1978; Harris 1981; Watanabe 2003), we have identified 17 different demonstrative forms that are used by speakers today.² These forms not only encode the relative distance between the speaker and the referent, as the English forms do, but also evidential distinctions, as well as gender and number. In addition, the distribution of the different demonstrative forms is sensitive to whether joint attention between the speech participants is established. Particularly, the latter point is of interest as it requires us to look at the co-speech gestures that often accompany demonstratives.

In Section 2, we will provide an introduction to demonstratives in $ayaju\theta$ am, drawing on previous literature. Section 3 will then outline the syntactic distribution of the individual demonstrative forms. Section 4, in turn, is dedicated to their semantics and pragmatics. We will

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 $^{^2}$ For reasons of space, we limit ourselves primarily to demonstratives that point out singular referents. However, preliminary evidence indicates that plural referents might require different demonstrative forms. Thus, the number of demonstratives in the language might actually be higher than 17.

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show how co-speech gestures and contextual salience split the demonstrative inventory into two (\$4), as well as discuss other grammatical distinctions encoded by each form. More specifically, we will present data illustrating that the demonstratives in $?ay?aju\theta$ mencode deictic distance (\$5), evidentiality (\$6), and gender and number (\$7). We will then present a semantic analysis for the demonstratives, incorporating ideas from Roberts (2002, 2015), Schwarz (2009), Speas (2010), Kalsang et al., (2013), Grosz (2019), Diessel and Coventry (2020), and Ebert et al. (2020), among others (\$8). An overview of some remaining questions as well as potential directions for future research on demonstratives concludes this paper (\$9).

2 Background

This section serves to introduce the reader to some of the terminology and background information that we will come back to throughout this paper. After a brief, general introduction to demonstratives (§2.1), we will provide an overview of the previous research on this topic in $ayaju\theta = (s2.2)$. We will then introduce the demonstrative forms we have encountered in our own work, organize them into paradigms, and compare them to other word classes in the language (§2.3). A short discussion of our methodology will conclude the background section (§2.4).

2.1 What are demonstratives?

Demonstratives have been a popular topic in linguistic research since at least the 1930s, when Bühler (1934) published his seminal work on what he called **pointing words**. Just like way markers and street signs, he argued, these words help speech participants navigate through a conversation. In English, the category of pointing words encompasses items like *here*, *there*, *this*, and *that*, but also expressions like *I*, *you*, *he*, *she*, *it*, and *they*. The former are generally known as **demonstratives**, the latter as **anaphoric pronouns**. What these words have in common is that their meaning is always context dependent. Just as the meaning of *I* in an utterance like *I'm tired* depends on *who* the speaker is, the meaning of words like *here* depends on *where* the speaker is when they make the utterance. In a sentence like *It's really hot here*, the demonstrative *here* would point to Vancouver if the utterance was made in Vancouver, but it would refer to Kamloops if the utterance was made in Kamloops.

In this paper, we will focus primarily on the demonstratives. These pointing words are often accompanied by **co-speech gestures** (i.e., manual pointing gestures, gazes, head nods, etc.) that help the speaker pick out an entity or a location in the external world (Bühler 1934; König & Umbach 2018; Ebert et al. 2020). The entity or location that the speaker is pointing at is often called the **referent**.

Selecting a referent via pointing is only one facet of the meaning of demonstratives, though. Demonstratives often also convey additional information regarding the speaker, the addressee, the referent, or the relationship between the three. In languages like English, for example, demonstratives also encode **deictic distance**, i.e., the relative distance between the speaker and the referent. For instance, words like *here* and *this* indicate that the speaker considers the referent to be close, or to use linguistic jargon, **proximal**, whereas *there* and *that* are used when the referent is regarded as farther away, or **distal**. The distance is usually measured from the speaker at the time and the place of the utterance, or as Bühler (1934) calls it, the **I-now-here-origo**.

English demonstratives do not encode much more than deictic distance. In other languages, the picture may look different. For instance, as we will show in this paper, demonstratives in $ay^2a\mu\theta$ mark much more information. Apart from deictic distance, they also encode the **gender**

of the referent, the type of **evidence** the speaker has for the existence of the referent, or whether or not the speaker and the addressee are both already paying **joint attention** to the referent (cf. Diessel 2006:465).

Obviously, much more could be said about demonstratives, but for the purposes of this paper, we will leave it at that and refer interested readers to Diessel and Coventry (2020)'s comprehensive interdisciplinary review of the demonstrative literature.

2.2 Previous descriptions of ?ay?ağuθəm demonstratives

Despite a long history of documentation, the demonstrative system of ?ay?ajuθəm has received relatively little attention and remains not well understood. Yet, some important insights can be found in the brief descriptions that have been published in some form or other over the years — most notably by Boas (1890), Davis (1978), Harris (1981), and Watanabe (2003). In the following paragraphs, we will briefly summarize what has been said about the demonstratives in the language so far.

A first list of demonstratives can be found in the materials compiled by Boas (1890), who spent several weeks in the Comox settlement in November 1886, gathering traditional narratives as well as word lists. In a German manuscript (Mss.497.3.B63c), he identifies six different demonstrative forms, and categorizes them in terms of gender (feminine vs. masculine) and number (singular vs. plural). The inventory, as listed by Boas, is presented in (1) below.^{3,4}

(1) Demonstratives listed in Boas (1890):

a.	θiθa	¢ē'e¢a	'jene' \approx 'those'	FEM. PL.
b.	tita	tē 'eta	'jene' \approx 'those'	MASC. PL.
c.	łań	<u>tl</u> ā'en	'jene' \approx 'that one'	FEM. SG.
d.	tan	tā 'en	'jener' \approx 'that one'	MASC. SG.
e.	k™šin	k'ŝēn	'jener' \approx 'that one'	MASC. SG.
f.	*k ^w θin	k'θēn	'jene' \approx 'that one'	FEM. SG.

Almost 90 years after Boas, Davis (1978:235) expanded the inventory to ten demonstratives. While his descriptions do not go beyond a simple listing of forms, his glosses reveal the novel observation that many of the demonstratives can be used locatively (e.g., 'here', 'there') as well as nominally (e.g., 'this', 'that').

(2) Demonstratives listed in Davis (1978:235):

a.	ta?a	/ta?a/	'that / there'
b.	te?e	/ti?i/	'this / here'
c.	<i>θε?ε</i>	/θiʔi/	'this / that'
d.	tan	/tan/	'that one'

³ The first column shows the forms in the current orthography, while the second column shows the orthography that Boas used. The third column provides Boas's German translation of the forms, with their approximate English translation. The final column shows the labels that Boas used to classify the individual demonstratives.

⁴ The feminine singular form $k' \theta \bar{e} n$ which Boas lists in (1f) remains unattested in modern ?ay?aju θ əm. Based on analogy with other forms, it would probably look like $*k^{w}\theta in'$ in the modern orthography.

e.	łań	/łan/	'this / that one'
f.	kʷa'n	/k ^w an/	'that one'
g.	tin	/təyn/	'this / here'
h.	šiń	/šəyn/	'that / there'
i.	tita	/təytə/	major topic (also: male as opposed to female)
j.	<i>ӨіӨа</i>	/θiθa/	minor topic (also: female as opposed to male)

Harris (1981:92–93), who documented the Island dialect, finds three demonstrative forms, as shown in (3). Unfortunately, it is not entirely clear what forms they would correspond to today, as indicated by the ^{??} in the column representing the current orthography.⁵

(3) Demonstratives listed in Harris (1981:92–93):

a.	?? ?ə tɛ?	[?ʌt'e?]	'this one'
b.	?? ?ə ta ?	[?ʌta?]	'that one'
c.	?? ?ə tan e	[?ʌtani]	'that one over there'

While he does not say much about their use, Harris (1981) can be credited with first noticing the evidential contribution of the demonstratives, which we will explore in more detail in Section 6. More specifically, he notes that the forms $k^w \theta in [k' \theta \bar{e}n]$ and $k^w \sin [k' s \bar{e}n]$, as found in Boas (1890), occur with referents that are 'not present'.

Just like his predecessors, Watanabe (2003:79) begins his overview of the demonstrative system by stating that further investigations will be necessary to understand the system. Despite the brevity of his description, he makes two important points. On the one hand, he notes that the label 'feminine' that he uses to describe some of the demonstratives is probably an oversimplification — which is indeed the case, as we will show in Section 7. On the other hand, he also points out that the - \vec{n} final forms (e.g., $k^w a \vec{n}$, \vec{sin}) seem to be reduced variants of longer demonstrative forms (e.g., $k^w a \vec{n}$, $\vec{si2n}$).⁶ The forms listed by Watanabe are reproduced in (4).⁷

(4) Demonstratives listed in Watanabe (2003:79):

a.	te?e	/ti?i/	'this'
b.	θε?ε	/θi?i/	'this (feminine)'
c.	ta?a	/ta?a/	'that'
d.	tin	/tin/	'this'
e.	łań	/łań/	'this (feminine)'

⁵ The forms in (3a) and (3b) strongly resemble certain demonstrative constructions found in Sechelt, namely $2e \ ti$ ('here'; 'at/in/to this place') and $2e \ ti$ ('there'; 'at/in/to that place') (Beaumont 2011:212–213). We, however, have not come across these constructions in $2a/aju\thetaam$.

⁶ A look at the original forms listed in Boas (1890) and their modern equivalents supports this observation (e.g., compare $[t\bar{a}'en]$ with tan').

⁷ The ten demonstratives that Watanabe (2003) lists in his description of the system are exactly the ten forms that can also be found in Davis (1978), though he reworked some of the glosses. Throughout his grammar book, Watanabe also mentions a handful of additional demonstratives, such as $k^wa?a$ (p. 160), $k^wi?k^wa$ (p. 560), k^wusi (p. 560), and the plural forms *ja?ihiw* (p. 82) and *tay'tihiw* (p. 165). He further speculates that the habitual marker *ta?at* might also lead a second life as a demonstrative in some cases (2003:90). However, as far as we can tell, all these instances seem to be no more than misinterpreted uses of the habitual marker.

f.	tan	/tan/	'that'
g.	k™an'	/kʷanႆ/	'that one'
ĥ.	šiń	/šin/	'that / there'
i.	tita	/təỷtə/	'this'
j.	<i>ӨіӨа</i>	/θəyθa/	'this (feminine)'

2.3 Organizing the inventory

Based on our own fieldwork with five speakers of ?ay?ajuθəm, the inventory of demonstratives totals at least 17 different forms. We divide them into two paradigms: **gesture demonstratives** (GDEMs) and **salience demonstratives** (SDEMs). We will argue that gesture demonstratives identify a location or entity through an accompanying co-speech gesture, while salience demonstratives encode reference to a location or entity that is already in joint attention (and thus, these forms do not require gesture). In both paradigms, we find distinctions of proximity for at least some forms, and evidential distinctions throughout. CDE stands for current direct evidence, which is typically visual evidence for the referent at the time of speaking. PDE stands for previous direct evidence, which is also typically visual evidence for the referent, but in this case the evidence is no longer available at the time of speaking. A subset of demonstratives in both paradigms also encodes that the referent is feminine and singular.

Table 1: The gesture demonstratives (GDEMS)

		Proximal	Near-Distal	Distal
CDE	Gender/Number-Neutral	te?e	tita	ta?a
CDE	Feminine Singular	<i>Ө</i> ɛʔɛ	<i>ӨіӨа</i>	8
Evidence-Neutral	Gender/Number-Neutral	k ^w ıši ⁹	k ^w ik ^w a	k™a?a

ii) Collapse of the paradigms	:
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Paradigm 1: kwiši	k ^w ıša	Paradigm 1:		<u>k^wıša</u>	
Paradigm 2: <u>*kwc?c</u>	kwikwa kwa?a	Paradigm 2:	•	$\overset{\pm}{k^{w}ik^{w}a}$	k™a?a

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⁸ From a strictly analogical point of view, the form expected here should be $*\theta a^2a$ — however, our speakers do not recognize this demonstrative.

⁹ Based on the composition of the other demonstratives, we would expect $k^{w}e^{2}e$ here, not $k^{w}t\check{s}i$. However, this form remains unattested in the literature and the speakers we work with do not recognize it either. In Sechelt, a cognate of $k^{w}t\check{s}i$ still exists, namely (*ie)* $k^{w}e$ shi ('here', unseen by speaker, listener, or both) (Beaumont 2011:213), which contrasts with (*ie)* $k^{w}e$ shá ('there', unseen by speaker, listener, or both) (Beaumont 2011:468). The latter does not seem to have a cognate in ?ay?ajuθəm. One hypothesis is that the language originally had two paradigms, which eventually collapsed, resulting in the picture we see today. More specifically, it looks like $k^{w}t\check{s}i$ filled the gap that the absence of $k^{w}e^{2}e$ left, but $k^{w}t\check{s}a$ was lost because $k^{w}ik^{w}a$ had already occupied the only position it could go (i–ii).

⁽i) Reconstruction of original paradigms:

		Proximal	Distal	Distance-Neutral
CDE	Gender/Number-Neutral	tin ^{' 10}	tań	
CDE	Feminine Singular	θin	łań 11	
PDE	Gender/Number-Neutral	—	_	šiń
PDE	Feminine Singular	_	—	łɛ'n
Evidence-Neutral	Gender/Number-Neutral	_		k ^w šiń
Evidence-Neutral	Feminine Singular ¹²			k ^w łeń
Discourse Demonstrative				k ^w an'

Table 2: The salience demonstratives (SDEMs)

The demonstrative paradigms proposed here bear striking resemblance to the paradigm of determiners in the language, shown in Table 3 below. The determiners likewise encode evidential distinctions, but do not make distinctions of deictic distance or joint attention.

Table 3: ?ay?ajuθəm determiners (Reisinger et al. [in press]).

CDE	Gender/Number-Neutral	tə
CDE	Feminine Singular	łə
PDE	Gender/Number-Neutral	ŠE
PDE	Feminine Singular	ł
Evidence-Neutral	Gender/Number-Neutral	k^w

¹⁰ At least one of our consultants occasionally also produces $tin\varepsilon$ (iii), which we suspect might be an older variant of tin.

yεχαtačx^w tine sałtx^w? yax-á-t-a=čx^w tina sałtx^w remember-cTR\STAT-Q-2SG.SBJ DEM woman 'Do you remember this woman?'

(vf | FL/2021/02/21)

It resembles the demonstrative $t\partial 2in\partial$ 'this' in Musqueam, which Suttles (2004:352) recognizes as a transparent relative clause construction, consisting of the determiner $t\partial$, the predicate 2i 'be here', and a reduced form of the existential marker na. Together these components mean something like: 'the one who/that exists here'.

¹¹ The use of lan as a CDE form is surprising, as the consonant θ -, and not l-, is usually associated with this evidential category (cf. Section 4). Thus, we would expect * θan to take its place in Table 2, and lan to contrast with len in the PDE row. Perhaps, this idiosyncrasy is the result of a partial collapse of the system.

¹² We've encountered $k^{wlen'}$ rarely and so have not had the opportunity to test whether the restriction to singular referents holds for $k^{wlen'}$ as for the other feminine demonstratives, but we assume it does in parallel to the rest of the paradigm.

⁽iii) Context: My younger sister hasn't been to Tla'amin in a long time and she's grown up a lot since you last saw her. I'm not sure if you will recognize her. I bring her over to see you and ask:

The demonstratives are also clearly related to a set of particles known as clausal demonstratives (Huijsmans & Reisinger [in press (b)]). These particles encode whether the speaker has CDE for the event described by the proposition and also information about the event's temporal proximity.

	Proximal	Distal
CDE	ti	ta
Evidence-Neutral	$k^{w}i$	k ^w a

Table 4: Clausal demonstrative paradigm (Huijsmans & Reisinger [in press]).

Throughout these four paradigms, *t*-initial forms are associated with CDE, while k^w -initial forms are evidence neutral, and *š*-initial forms encode PDE. Feminine forms are *l*- or θ -initial with the exception of $k^w l \epsilon n$. Where deictic distinctions are made, *a* is associated with distal forms, while *i* is associated with proximal forms.

2.4 Methodology

The findings reported in this paper are the result of a number of different fieldwork methods. Most commonly, we presented a verbal context and then either asked our consultant to provide the correct ?ay?aju0əm utterance to fit that context or provided a sentence and asked our consultant to judge whether it was a good fit to the context (i.e., felicitous); these are both standard methods of semantic fieldwork (e.g., Matthewson 2004). While we often presented the contexts in English, the target example was sometimes placed within an ?ay?aju0əm dialogue or in a multi-sentence ?ay?aju0əm utterance in order to make it easier for the speaker to think and judge within the language. When obtaining minimal pairs, we typically first asked our consultant to provide an utterance fitting the context we provided, and then subsequently tested whether the volunteered demonstrative could be replaced with other demonstrative choices in the same context. Often this testing occurred on the same day, but sometimes over multiple days. We then replicated the findings with different examples showing the same contrast, typically over several sessions.

In addition to investigating examples in a verbally presented context, we also created short storyboards that manipulated whether an object was in the joint attention of two characters engaged in a dialogue. We then used the volunteered dialogues as frames to test whether other demonstratives could be used in place of those our consultant originally used. This allowed us to better compare the discourse properties of the demonstratives which were elusive without this context.

As mentioned above, we worked with five consultants on this project specifically, mostly over the last year, though demonstratives have entered into our documentation frequently over the last five years working with these speakers and a number of other speakers as well. We have found the demonstrative system largely consistent between speakers, though one speaker uses variations not found in the speech of other speakers (though clearly recognized and understood) — see footnote 10. We have also noticed that the use of feminine demonstratives is more common in the speech of older speakers.

3 Syntactic distribution

The literature on demonstratives commonly distinguishes between nominal and adverbial demonstratives (e.g., Dixon 2003; Diessel & Coventry 2020). The nominal demonstratives can either function as pronouns (i.e., the demonstrative is used instead of a noun phrase), or as determiners (i.e., the demonstrative introduces a noun phrase), as shown in (5a) and (5b), respectively. The adverbial demonstratives, on the other hand, generally act as locative adverbs, as illustrated in (5c).

(5)	a.	Nominal: Pronoun	Who is [_{DP} <u>this</u>]?
	b.	Nominal: Determiner	Who is [DP this [NP man]]?
	c.	Adverbial: Locative Adverb	It is [LOC here].

In English, these two categories can be easily told apart. While *this* and *that* are exclusively nominal, *here* and *there* are exclusively adverbial. In $ayaju\thetaam$, this division is less obvious: the same forms are used for both nominal (6a–b) and adverbial uses (6c) — though adverbial uses are typically preceded by the oblique marker 2a.¹³

(6)	a.	Nominal: Pronoun	get ga gat=ga who=dprt	[dp <u>te?e</u>]? ti?i dem	
			'Who is thi	s?'	(sf EP.2021/02/26)
	b.	Nominal: Determiner	gɛt ga gat=ga	[dp tɛʔɛ [nf ti ʔ i	• <u>tumiš]]</u> ? tumiš
			gai–ga who=dprt	DEM	man
			'Who is thi	s man?'	(sf EP.2021/03/27)

¹³ The abbreviations used in this paper are: 1 = first person, 2 = second person, 3 = third person, ACT = active, CAUS = causative transitive, CDE = current direct evidence, CHAR = characteristic reduplication, CLDEM = clausal demonstrative, CLF = cleft, COMP = complementizer, COP = copula, CTR = control transitive, DEM = demonstrative, DET = determiner, DIM = diminutive, DISC = discourse, DIST = distal, DP = determiner phrase, DPRT = discourse particle, EPEN = epenthetic consonant, ERG = ergative, EX = exclamation marker, EXCL = exclusive marker, F = feminine, FUT = future, GDEM = gesture demonstrative, HAB = habitual, INFER = inferential, INSTR = instrument, INT = intensifier, INTR = intransitive, LOC = locative, MDL = middle marker, NCTR = non-control transitive, NDIST = near-distal, NEG = negative, NMLZ = nominalizer, NP = noun phrase, OBJ = object, OBL = oblique, QUEX = quexistential, PASS = passive, PDE = previous direct evidence, PL = plural, POSS = possessive, PRF = perfect, PROG = progressive, PROX = proximal, PST = past, Q = question particle, RC = relative clause, REL = relational marker, RPT = reportative, SBJ = subject, SBJV = subjunctive, SDEM = salience demonstrative, SG = singular, STAT = stative, TR = transitivizer, VP = verb phrase.

A hyphen (-) is used to mark an affix, an equal sign (=) a clitic, a tilde (\sim) a reduplicant, a backslash (\) a suprasegmental morpheme (in this paper a pitch accent), and angle brackets (<>) for infixation into the root; + is used where two or more morphemes are fused.

The top line of each example is orthographic, the second line provides underlying forms and morpheme breaks, the third line is the gloss, and the fourth line gives the translation.

In the source information, "sf" marks forms suggested by the authors, and "vf" marks volunteered forms by the consultants.

c.	Adverbial: Locative Adverb	niš [loo	₂ ?ə <u>tε?ε]</u> .
		niš	?ə=ti?i
		be.here	obl=here
		'It's over here.'	(vf EP.2021/02/19)

Below, we illustrate these uses for each of the demonstratives in the system and identify gaps where certain forms may not be used.

3.1 Nominal uses

(8)

First, we explore for which demonstratives nominal uses are available. First, we explore for which demonstratives nominal uses are available. As we will show, only *some* of the GDEMs, but *all* of the SDEMs can be used as pronouns and determiners.

Of the *t*-initial GDEMs, only $t\epsilon^2\epsilon$ and tita — but not ta^2a — can occur as nominal demonstratives. They can be used pronominally, as in (7), as well as determiners, as in (8).

(7) Pronominal uses of the *t*-initial GDEMs:

a.	Context for te?e: Introducing a Context for tita: Pointing to so Context for ta?a: Pointing to so hel {te?e / tita / *ta?a} ?ət ⁰ hil {ti?i / təŷta / *ta?a} ?ət ⁰ = cop {DEM / DEM / DEM} 1SG.1 'This/that is my husband.'	omeone across the room. omeone way across the gym. gaqaθ. =gaqaθ	(sf BW/2020/10/20)
b.	Context: Someone asks if you togútč tug-út=č recognize-ctrk\stat=1sg.sbj 'I recognize this/that one.'	{ tɛʔɛ / tita / *taʔa }. {tiʔi / təỷta / *taʔa} {Dem / Dem / Dem}	(sf BW/2020/10/20)
Dete	erminer uses of the <i>t</i> -initial GDE	Ms:	

Context: Someone asks if you recognize anyone in a picture.						
, togotč	{tɛʔɛ / tita / *taʔa}	tumiš.				
, tug-út=č	{ti?i / təyta / *ta?a}	tumiš				
recognize-ctr\stat=1sg.sbj	{dem / dem / dem}	man				
'I recognize this/that man.'			(sf BW/2020/10/20)			

The θ -initial GDEMs, $\theta \epsilon r \epsilon$ and $\theta i \theta a$, exhibit the same distribution. That is, they can be used either as pronouns, as shown in (9), or as determiners, as shown in (10).

- (9) Pronominal uses of the θ -initial GDEMs:
 - a. Context for θε?ε: Introducing the woman beside you. Context for θiθa: Pointing to someone across the room. hεł {θε?ε / θiθa} ?ət^θ sałtu. hił {θi?i / θəỳθa} ?ət^θ=sałtəw cop {DEM / DEM} 1sg.poss=wife 'This/that is my wife.'

(sf | EP/2021/05/29)

- b. Context: Someone asks if you recognize any woman in a picture.
 togotč {θε?ε / θiθa}.
 tug-út=č {θi?i / θəŷθa}
 recognize-cTR\STAT=1SG.SBJ {DEM / DEM}
 'I recognize this/that one.' (sf | EP/2021/06/05)
- (10) Determiner uses of the θ -initial GDEMs:

Context: Someone asks if you recognize anyone in a picture.						
togotč	$\{\theta\epsilon\}\epsilon / \thetai\thetaa\}$	sałtx ^w .				
, tug-út=č	{θi?i / θəỷθa}	sałtx ^w				
recognize-ctr\stat=1sg.sbj	$\{dem / dem\}$	woman				
'I recognize this/that woman.'			(sf BW/2020/10/20)			

The k^{w} -initial GDEMs, on the other hand, appear not to be compatible with the nominal uses. Despite repeated efforts, we have not been able to elicit cases where the demonstratives $k^{w}t\check{s}i$, $k^{w}ik^{w}a$, or $k^{w}a^{2}a$ function as pronouns or determiners, as illustrated in (11) and (12).

(11) Unavailable pronominal uses of the k^{w} -initial GDEMs:

a.	Context: I'm asking	you to pass me something that's behind me.	
	*ma?amθ gi	k ^w ıši!	
	ma?am-θ=gi	k ^w əši	
	pass-1sg.obj=dprt	DEM	
	Intended: 'Pass me	this!'	(sf EP.2021/06/04)

b. Context for k^wıši: I have two sets of cutlery and I always use the ones in the kitchen. I point to the drawer that they're in and tell you: Context for k^wik^wa: I have two sets of cutlery and I always use the ones in the kitchen. We're in the living room and I tell you, gesturing towards the kitchen.

- * heł { \mathbf{k}^{w} **i**ši / \mathbf{k}^{w} **i**k w **a**} ?ə paye? yiydašen.
- hił { k^{w} əši / k^{w} əýk w a} ?ə=paya? yə~yq́-aš-an

COP {DEM / DEM} CLF=always PROG~use-TR-1SG.ERG Intended: 'These/Those are the ones I always use.'

(sf | EP.2021/06/04 & sf | EP.2021/06/12)

c. Context: I have a couple of wheelbarrows. One is rather rickety and leant against the shed close by. I also have a good, sturdy one, but it is hidden in the trees at the back of my property where I was doing some work. You want to borrow one, and I want you to take the good one, so I tell you:

* hɛł	k ^w a?a	?ə paye?	yiyqašen.	
hił	k ^w a?a	?ə=paya?	yə∼yq-aš-an	
COP	DEM	clf=always	prog~use-tr-1sg.erg	
Inten	ded: 'The	e one back there	e is the one I always use.'	(sf EP.2021/06/12)

- d. Context: You wanted to meet my brother, but he wasn't at the gathering at my house yet when you arrived...
 For kwikwa: ...Later, a man walks past us and disappears around the corner. I tell you: For kwa?a: ...We were watching a child playing at the far end of the gym when we noticed a man walk past the child and disappear out the door at the far side of the gym. I tell you:
 * oh, heł {kwikwa / kwa?a} ?ət^θ=qix.
 oh, hił {kwəỳkwa / kwa?a} ?ət^θ=qix
 - ohcop {DEM / DEM}1sg.poss=younger.siblingIntended: 'Oh, that is my brother.'(sf | BW.2020/11/03)
- (12) Unavailable determiner uses of the k^{w} -initial GDEMs:
 - a. Context: I see you struggling with a blunt pair of scissors. Indicating the cupboard behind me, I tell you:

*ma?t ga	kʷıši	kıpaye.	?iynɛs.	
ma?-t=ga	k ^w əši	kəpaya	?əy-nis	
get-ctr=dprt	DEM	scissors	good-tooth	
Intended: 'Get	these sc	issors. Th	ey're sharp.'	(sf EP.2021/07/10)

b. Context: I have two sets of cutlery, and I always use the ones in the kitchen. We're in the living room and I tell you, gesturing towards the kitchen.

* hɛł	k ^w ik ^w a	čɛ?aw	?ə payɛ?	yiyqašen.
hił	kʷəÿ̀kʷa	ča?aw	?ə=paya?	yə~yq-aš-an
COP	DEM	tools/cutlery	clf=always	prog~use-tr-1sg.erg
Inten	ded: 'Those	e are the ones I a	(sf EP.2021/07/02)	

c. Context: I'm pointing towards my shed and there's a good wheelbarrow behind the shed. There's also a rickety one closer. I want you to borrow the good wheelbarrow for the work you need to do.

* hɛł	k ^w a?a	siksik	matax ^w .	
hił	kwa?a	siksik	ma?-t-ax ^w	
COP	DEM	wheelbarrow	get-ctr-2sg.erg	
Inten	ded: 'Take	the wheelbarrow	v over there.'	(sf EP.2021/0702)

A typical repair strategy for these cases is to create a headless or head-final relative clause introducing the demonstrative as a locative. In these structures, the demonstrative forms a predicate

along with the locative $n\epsilon^2$, while the head of the relative clause is either a silent third-person pronoun *pro* (13a–c)¹⁴ or a final NP (13d–e) (e.g., Davis 2010).

(13) Repairs using relative clauses:

a.	Contex	t: I have two se	ets of ci	utlery,	and I always	use the ones in	the kitchen. I point to
	the drawer that they're in and tell you:						
	hεł [_D	se ne?	kʷıši	pro_i]	?ə payɛ?	yiyqašen.	
	hił	šə=ni?	k ^w əši	<i>pro</i> _i	?ə=paya?	yə∼yq́-aš-an	
	COP	DET=be.there	DEM	<i>pro</i> _i	clf=always	PROG~USe-TR-	SG.ERG
	'The or	nes _i over here a	are the	ones I	always use.' (cf. 10b)	(vf EP.2021/06/05)

- b. Context: I have two sets of cutlery, and I always use the ones in the kitchen. We're in the living room and I tell you, gesturing towards the kitchen:
 heł [DPšɛ nɛ? kwikwa proi] ?ə payɛ? yiyqašɛn.
 hił šə=ni? kwəykwa proi ?ə=paya? yə~yq-aš-an
 COP DET=be.there DEM proi CLF=always PROG~use-TR-1SG.ERG
 'The onesi over there are the ones I always use.' (cf. 10c) (vf | EP.2021/06/05)
- c. Context: I have a couple of wheelbarrows. One is rather rickety and leant against the shed close by. I also have a good, sturdy one, but it is hidden in the trees at the back of my property where I was doing some work. You want to borrow one, and I want you to take the good one, so I tell you:

heł	[_{DP} še ne?	k ^w a?a	pro_i]	?ə payɛ?	yiyqašɛn.	
hił	šə=ni?	k ^w a?a	pro_i]	?ə=paya?	yə∼yq́-aš-an	
COP	DET=be.there	DEM	<i>pro</i> _i	clf=always	PROG~USe-TR-	1SG.ERG
'The	e one _i over there is	s the one l	[alway	vs use.' (cf. 1	0d)	(sf EP.2021/06/12)

 d. Context: I see you struggling with a blunt pair of scissors. Indicating the cupboard behind me, I tell you: ma?t ga [DP šε nε? k^wıši kµpayɛ]. ?iynɛs. ma?-t=ga šə=ni? k^wəši kəpaya ?əy-nis get-ctr=DPRT DET=be.there DEM scissors good-tooth

e. Context: I'm pointing towards my shed, and there's a good wheelbarrow behind the shed. There's also a rickety one closer. I want you to borrow the good wheelbarrow for the work you need to do.

'Get the scissors here. They're sharp.' (cf. 11a)

heł	[_{DP} še ne?	k ^w a?a	siksik]	matax ^w .	
hił	šε=ni?	kwa?a	siksik	ma?-t-ax ^w	
COP	DET=be.there	DEM	wheelbarrow	get-ctr-2sg.erg	
'Tak	te the wheelbarro	w over the	ere.' (cf. (11b))		(sf EP.2021/07/02)

(sf | EP.2021/07/10)

¹⁴ Here we represent *pro* as final in parallel to the corresponding examples where the NP head is overt. The structure of headless relative clauses still needs investigation, however. See Davis (2010) for detailed discussion of the structure of headless relative clauses in St'át'imcets.

In contrast to the GDEMs, *all* of the SDEMs can be used as pronouns or determiners, as shown in the examples (14) through (23).

(14) Pronoun uses of *tin* and *tan*:

a.	Context: At a ba	izaar, I see my frien	nd holding several knitted	hats likely bought at
	different stalls. H	Pointing to one I part	icularly like, I ask:	
	hɛkʷčɛ	θ ma?ax ^w	tin?	
	hił+k ^w =ča	θ=ma?-əx ^w	tin	
	COP+DET=where	2sg.poss=get-nctr	DEM	
	'Where did you	buy this?'		(vf EP.2021/04/16)

- b. Context: We're at a florist's looking at a few bouquets, deciding which to get for a friend. I don't like what I'm seeing, but then I notice one I quite like.
 hɛsəm tin šu?otən.
 hił+səm tin šu?-ut-an
 cop+FUT DEM choose-cTR-1SG.ERG
 'I'll choose this one.' (vf | EP.2021/04/16)
- Context: Daniel and Marianne are at a florist getting flowers for Gloria for her c. birthday, and Daniel points out some flowers he thinks Gloria would like: »qwayın hel tita«, hot Daniel. »qwayın ?istom Gloria tan. q^wayin hił təýta hut Daniel qwayin ?əý-st-um Gloria tan COP DEM say Daniel maybe good-caus-pass Gloria DEM maybe he səm tań yəqtat.« hił+səm tan yəq-t-at COP+FUT DEM buy-ctr-1pl.erg "Maybe those, says Daniel. »I think Gloria will like those. We'll buy those." (vf | EP.2021/04/23)
- (15) Determiner uses of *tin* and *tan*:

Context: We're looking at a display of baskets. You've been identifying the uses of the a. different baskets. Having already identified the baby basket, you later point back again at it and tell me: t^θ čičiyε?oł ?əsna? papem ti'n hεł χa?p. hił ?əsna? t⁰=či~čiya-?uł papim tin xa?p 1sg.poss=DIM~grandmother-pst be.owner work DEM baby.basket COP 'This baby basket is my late grandmother's work.' (sf | EP.2021/04/16)

b. Context: I'm showing my brother the church where our parents got married.

hɛł	tiń	čɛhamawtxʷ	?əx™=malyε?os	šıms λαχλαχ.
hił	tin	čah-am-awtx ^w	?ə=x ^w =malya-?uł+s	šə=ms=λ́axλ́ax
COP	DEM	pray-мDL-building	OBL=NMLZ=marry-pst+3poss	DET=1PL.POSS=parent
'It's	this ch	urch where our pare	nts got married.'	(vf EP.2021/03/05)

	c.	hɛł Gail ?əsna? papɛm tan ҳa?p̀. hił Gail ?əsna? papim tan ҳa?p̀ сор Gail be.owner work DEM baby.basket 'That baby basket is Gail's work.'	(vf EP.2021/04/16)
	d.	Context: As we are boating about, you point out a small island other islands. You tell me: paye ?ot qaχ tə ?asx ^w ?ə tan k ^w υθays. paya?=?ut qəx tə=?asx ^w ?ə=tan k ^w əθays always=ExcL lots DET=seal OBL=DEM island 'There's always a lot of seals on that island.'	to me from among the (vf EP.2021/04/16)
(16)	Pron	soun uses of $\theta i \vec{n}$ and $la \vec{n}$:	
	a.	Context: My brother and I are looking through an old picture of have. I have it in my lap. There's a picture of a woman I kind quite place. I ask togutačx ^w θε?ε? 'Do you recognize this (wom q ^w ayın heł θin ?əms jɛ?jɛ. q ^w ayin hił θin ?əms=ja?ja maybe cop DEM 1PL.Poss=relative 'I think she's our relative.'	of recognize but can't an)?'
	_		(sf EP.2021/06/05)
	b.	Context: You see a lady walking by and are wondering who she get če ga lan? gat=ča=ga lan who=INFER=DPRT DEM 'I wonder who that woman is?'	e is. (vf EP.2021/0710)
(17)	Dete	erminer uses of <i>θin</i> and <i>łan</i> :	
	a.	Context: I bring a picture of a lady to show you. get ga θin sałtx ^w ? gat=ga θin sałtx ^w who=DPRT DEM woman 'Who is this lady?'	(sf EP.2021/06/12)
	b.	Context: A lady gets up to speak at a meeting, and I'm not sure get ga? togútačx ^w lan sałtx ^w ? gat=ga tug-út=a=čx ^w lan sałtx ^w who=DPRT recognize-CTR\STAT=q=2SG.SBJ DEM woman 'Who is she? Do you recognize that woman?'	, ,

(18) Pronoun uses of \vec{sin} and \vec{len} :

	a.	Context: At a gathering, someone was very disruptive and then left. After the man left, Freddie asks me:
		$togútačx^w$ še tumiš? heł šin ču?ołoł ?ət ^{θ} siksik.
		tug-út=a=čx ^w šə=tumiš hił šin ču?uł-uł ?ət ^θ =siksik
		recognize-ctr=q=2sg.sbj det=man cop dem steal-pst 1sg.poss=wheelbarrow
		'Did you recognize that man? He was the one that stole my wheelbarrow.'
		(sf BW.2020/10/06)
	b.	Context: There's a bag hanging from my doorknob. When I open the door, it is there, and Freddie tells me he saw Gail leaving the driveway when he came. I say: hiya lɛn ?ə qwol taqašoł? hil+a lin ?ə=qwəl təq-aš-ul cop+q DEM come deliver-TR-PST
		'Was it her that brought it to the door?' $(vf EP.2021/02/26)$
(19)	Deter	rminer uses of <i>šin</i> and <i>len</i> :
	a.	Context: At a gathering, someone was very disruptive and then left. After the man left,
		Freddie asks me:
		get ga šin tumiš?
		gat=ga šin tumiš
		who=DPRT DEM man
		'Who was that man?' (sf EP.2020/10/02)
	b.	Context: When we are at the lodge, a lady shows up that I don't know. Everyone else seems to know her, so I'm embarrassed to ask who she is. After she leaves, I ask: get ga len saltx ^w ? gat=ga lin saltx ^w
		who=dprt dem woman
		'Who was that woman?' (sf EP.2020/06/12)
(20)	Pron	oun uses of $k^{w} \check{s} i \dot{n}$ and $k^{w} i \epsilon \dot{n}$:
	a.	Context: I hear a male voice outside at night. I say to Daniel:čiyítčk ^w tumiščiyítčk ^w tumiščiy-ít=čk ^w =tumiš?ə=k ^w =?asqičgat=čak ^w šiňhear-cTR\STAT=1SG.SBJDET=manOBL=DET=outsidewho=INFER'I hear a man outside. Who could that be?'(sf EP.2021/02/26)
	b.	Context: Someone tells you a new lady has been hired at the band office, and she heard
		it's a relative of Freddie's. You wonder out loud who that would be. get če ga k^włeń ?
		gat=ča=ga k ^w łiń
		who=infer=dprt dem
		'I wonder who that is? (sf EP.2021/07/02)

(21) Determiner uses of $k^{w} \delta i n$ and $k^{w} l \epsilon n$:

	a.	Context: Listening to a CD.hehewč?ismotkwšiňwuwomtən.hihiw=č?əỷ-sxw-mutkwšiňwuw-əm-tənreally=1sg.SBJgood-cAUS-INTDEMsing-MD-INSTR'I really like this song.'(vf EP.2021/01/08)
	b.	Context: Someone tells you a new lady has been hired at the band office, and she heard it's a relative of Freddie's. You wonder out loud who that would be. get če ga kwłeń sałtxw? gat=ča=ga kwłiń sałtxw who=INFER=DPRT DEM woman 'I wonder who that woman is?' (sf EP.2021/07/02)
(22)	Pron	oun uses of <i>kwan</i> :
	a.	Context: Wrapping up a story.hɛłkʷa'n!hiłkʷa'nCOPDEM'That's it!'(Watanabe 2021:103)
	b.	Context: Daniel mentions that Gloria found someone to give a talk at a linguistics gathering, but not who it is. I stop him and ask: get ga kwan? gat=ga kwan who=DPRT DEM 'Who is that?' (sf EP.2021/03/27)
(23)	Deter	rminer uses of $k^w a \dot{n}$:
. ,	a.	Context: From an instructional narrative on first pregnancies.

a. Context: From an instructional narrative on first pregnancies.
?ot ga qwoł ?i? kwań čuỷ ?i na?a ma?axwčxw hiyt.
?ut=ga qwoł ?əŷ kwań čuỷ ?iy na?a ma?-эxw=čxw=hiyt
if=DPRT come good DEM child and FILLER obtain-NTR=2sG.SBJ=PRF
'If that child is well, then you are well on your way.' (Watanabe 2021:100)

b.	?iščɛn ?əý-sx™=čan	k^wan k ^w an		
	good-caus=1sg.sbj 'I like that name.'	DEM	name	(sf EP.2021/06/12)

Tables 5 and 6 summarize which of the demonstratives have nominal uses. While all of the SDEMs can be used as pronouns or determiners, the picture emerging for the GDEMs is less

	Pronoun	Determiner		Pronoun	Determine
e?e	\checkmark	\checkmark	tin	\checkmark	\checkmark
ita	\checkmark	\checkmark	tań	\checkmark	\checkmark
a?a	_	—	θi'n	\checkmark	\checkmark
де?е	\checkmark	\checkmark	łań	\checkmark	\checkmark
liθa	\checkmark	\checkmark	šiń	\checkmark	\checkmark
	_	—	łɛń	\checkmark	\checkmark
:"ik"a	—	—	k ^w šin'	\checkmark	\checkmark
t™a?a	_	—	k ^w łeń	\checkmark	\checkmark
			k ^w an'	\checkmark	\checkmark

uniform. As indicated by the bolded rows in Table 5, we have been unable to find nominal uses for ta?a, $k^wiši$, k^wikwa , and $k^wa?a$.

3.3.2 Locative uses

The boundary between nominal and locative uses is not clearly delimited semantically since locations are frequently entities (e.g., *the mountain, the park, the bench*). By *locative use*, we refer specifically to adverbial uses of the demonstratives that pick out locations.

We begin by examining the *t*- and k^{w} -initial GDEMs (the gender-neutral forms) which can all be used locatively (24). There are two syntactic environments where the demonstratives are clearly used locatively: where the demonstrative appears in an oblique phrase (preceded by the oblique marker 2ϑ) and in oblique clefts, since the clefting of a locative or temporal oblique phrase triggers nominalization of the remnant clause. Example (24a) illustrates an oblique cleft, where the remnant is introduced by the oblique marker 2ϑ and the oblique nominalizer x^{w} , while the subordinate subject is realized with a possessive clitic. Example (24b) illustrates a demonstrative appearing in an oblique phrase.

- (24) Locative uses of the gender-neutral GDEMs:
 - a. Context: Planning where our guests will sit for dinner. I point to the chair in front of me.

he səm te?e	?∍x ^w nišs	Gloria.	
hił=səm ti?i	?ə=x ^w =niš=s	Gloria	
COP=FUT DEM	obl=obl.nmlz=be.here=3pos	s Gloria	
'Gloria will be h	ere.'		(vf EP.2021/02/19)

- b. Context: The police are interviewing me as a witness after a minor car accident. They're trying to reconstruct what happened and ask me where I was standing when the accident happened. I point a little ways down the sidewalk and say: kwe?ešitoł nεč 2 {tita / ta2a}. kwi?iš-ít-uł ni?=č $2 = \{ tita / ta \}$ be.there=1sg.spj stand-STAT-PST $OBL = \{DEM / DEM\}$ 'I was standing there / over there.' Consultant: "[tita] if it was closer to you, like 10 ft away." (sf | EP.2021/04/02) Context: My purse is hanging on the back of my chair. с. ne? šεt^θ talahayε ?∍ kʷıši. ni? šə=t^θ=talahaya ?ə=k^wəši DET=1SG.POSS=purse OBL=DEM be.there 'My purse is right here (behind me).' (vf | EP.2021/02/19)
- d. Context: I was always told there was a lake way back in the woods behind my place. I've never hiked back there to see. One day, we're talking about the area, and I point towards the woods behind my place and tell you:

nɛ? kʷa	k™ θεθа?уεł	?∍ kʷikʷa,	ne?etəm.	
ni?=kwa	k ^w =θ <iθ>ayał</iθ>	?ə=k™ik™a	ni?-it-əm	
be.there=RPT	DET=lake <dim></dim>	OBL=DEM	say-ctr-pass	
'There's a little	(vf EP.2021/02/26)			

e. Context: Daniel and I are on a hiking trail. When I did the hike before, another hiker told me that there is a river a little ways off the trail. I've never explored it, though. When we get to that point, I point towards where the river is supposed to be and tell Daniel:

ne? k ^w a	k ^w q ^w aq ^w tɛm	?ə {kʷikʷa / kʷa?a}.				
ni?=k̇́wa	kw=qwa <qw>t<i>m</i></qw>	$2 = \{k^w i k^w a / k^w a^2 a\}$				
be.there=RPT	DET=river <dim></dim>	$obl = \{dem / dem\}$				
'I hear there's a river (over) there.'						
Consultant: "[kw	away, a little further."	(vf EP.2021/02/26)				

The gender-neutral SDEMs can all be used locatively as well, as shown in (25).

(25) Locative uses of the gender-neutral SDEMs:

a.	Context: Walking into a store, you say:							
	hɛł	tin	?ət [⊕] yəqtoł	?ət [⊕] qəsnay.				
	hił	tin	?ə=t [⊕] =yəqt-?uł	?ət [⊕] =qəsnay				
	COP DEM OBL=1SG.POSS=buy-pst		OBL=1SG.POSS=buy-PST	1sg.poss=shirt				
	' This	s is wh	ere I bought my dress.'		(vf EP.2021/02/19)			

b.	Context: We're getting off the boat on an island, and you tell me that here often.heltinheltin?əms=ta?atnišhiltin?ə=ms=ta?atnišCOPDEMOBL=1PL.POSS=HABbe.heredwell <stat>-PST'We used to stay here often.'(vf</stat>	t you used to stay EP.2021/02/26)
c.	Context: There are houses scattered over the island that we are goin Pointing to one high up on a hill, I say: hɛł taň ?əx ^w nɛs ?ɛ?ana?oł hił taň ?ə=x ^w =ni?-s ?i?ana-?uł COP DEM OBL=OBL.NMLZ=be.there-3POSS born-PST šɛt ^θ qɛχ. šə=t ^θ =qix DET=1SG.POSS=younger.sibling	g past on a boat.
		EP.2021/04/02)
d.	Context: Someone mentions the Value Village on Hastings St. I tell hhɛłšiň?ət ^θ ma?ax ^w ołt ^θ k ^w osɛmok ^w t.hiłšiň?ət ^θ =ma?-əx ^w -ułt ^θ =k ^w əsimuk ^w tcopDEM1SG.POSS=get-NCTR-PST1SG.POSS=jeans'That's where I got my jeans.'(sf	ner: EP.2021/06/19)
e.	Context: Someone mentions Germany. Daniel says: heł k ^w šiń ?ət ^{θ} tuwa. hił k ^w šiń ?ət ^{θ} =tuwa COP DEM 1SG.POSS=from 'That's where I'm from.' (vf	EP.2021/06/12)
f.	Context: Someone mentions Germany. I say:hɛ k̄wak̄wan ?əxwtuwasDaniel.hił=k̄wak̄wan ?ə=xwtuwa=sDanielcop=RPTDEMOBL=OBL.NMLZfrom=3possDaniel'That's where Daniel is from.'	EP.2021/06/12)

The θ - and *l*-initial GDEMs and SDEMs (the feminine forms) can also be marginally used locatively — but only when the location is an object considered small, as shown in (26) and (27), respectively.¹⁵

¹⁵ We have not checked the feminine SDEM k^{wlen} as a locative, since it is quite restricted even in its nominal use, for reasons we cover in Section 4.5. While it may be possible to find a context where k^{wlen} could be used locatively, we believe such uses would be extremely rare.

(26) Locative uses of the feminine GDEMs with small referents:

Context: We're preparing a gathering and we have a cute little table set for the children. Iask you where to put a plate of cookies, and you point to that little table ...For $\theta \in 2\epsilon$: ... which you happen to be standing right beside and tell me to put it there.For $\theta i \theta a$: ... a short distance away and tell me to put it there.hesxw $\{ \theta \epsilon ? \epsilon / \theta i \theta a \}$? $\Rightarrow \theta k^w a ?t.$ hil-sxw $\{ \theta i ? i / \theta i \theta a \}$? $\Rightarrow = \theta = k^w a ?t.$ COP-CAUS $\{ F.DEM / F.DEM \}$ OBL=2SG.POSS=put-CTR'Put it here/there.'

(27) Locative uses of the feminine SDEMs with small referents:

Context: We're planning where our guests will be sitting. Pointing to the dainty little a. chair I'm standing beside, I say: θi'n q^wayın ?istom Gloria $\theta \epsilon \epsilon \theta u k^w načtən.$ hɛł səm ?əy-stu-m Gloria θi?i θək^wnačtən θi'n q^wayin hił=səm good-caus-pass Gloria maybe DEM chair COP=FUT F.DEM ?əx^w nišs. ?ə=x^w=niš=s obl=obl.nmlz=be.here=3poss 'I think Gloria will like this chair. She will be here.' (sf | EP.2021/06/12)

b. Context: We're planning where our guests will be sitting. Pointing to the dainty little chair at the other end of the table, I say:

q ^w ayın	?istom	Gloria	θίθα	θuk ^w načtən.	hɛɬ səm	łań		
q ^w ayin	?əy-stu-m	Gloria	θіθа	θək ^w načtən	hił=səm	łań		
maybe	good-caus-pass	Gloria	DEM	chair	COP=FUT	F.DEM		
?əx∞ n	ne?s.							
?ə=x ^w =ni?=s								
OBL=OBL.NMLZ=be.there=3poss								
'I think Glo	oria will like that	chair. She	will b	e there.'	(sf E	P.2021/06/12)		

c. Context: We're setting up for where our guests will sit at a gathering. I'm wondering where Gloria is going to sit and ask: hε səm kʷčε ?əxʷ nɛ?s Gloria kʷanáč? 'Where will Gloria sit?' You tell me:

	ne?	ł titol	θιθk ^w anačtən	?asq.	hɛ səm	łɛ'n	?əx [∞]			
	ni?	ł=tituĺ	θ <iθ>k™načtən</iθ>	?asq	hił=səm	łiń	?ə=x ^w			
	be.there	det=small	chair <dim></dim>	outside	COP=FUT	F.DEM	OBL=OBL.NMLZ			
	ne?s		Gloria.							
	ni?=s		Gloria							
be.there=3poss Gloria										
	'There's a little chair outside. Gloria will be there.' (sf EP.2021/07/02)									

However, for regularly sized or large objects serving as location, or locations that are not obviously objects, the feminine demonstratives cannot be used (28). How exactly size and femininity are linked will be discussed in more detail in Section 7.

- (28) Unavailability of locative uses with referents that are not small:
 - Context: We're preparing a gathering and we have several fairly large tables set up. a. I ask you where to put a plate of cookies, and you point to one of the tables ... For $\theta \in \mathcal{E}_{t}$: ... which you happen to be standing right beside and tell me to put it there. For $\theta i \theta a / tita / ta ? a$: ... a little further away and tell me to put it there. $\{\#\theta\epsilon \epsilon / t\epsilon \epsilon / \#\theta i \theta a / tita / ta \epsilon \}$ hesxw $2 \theta k^{w} a^{2} t$. hił-sx^w $\{\#\theta i ? i / ti ? i / \#\theta \Rightarrow y \theta a / t \Rightarrow y t a / t a ? a \}$ $2 = \theta = k^{w}a^{2} - t$ {F.DEM / DEM / F.DEM / DEM / DEM } COP-CAUS OBL=2SG.POSS=put-CTR 'Put it here / there / over there.' (sf | EP.2021/06/19)
 - b. Context: I sort of recognized someone at a gathering and I went to ask you about her before, but then I couldn't see her. Now I notice her again and I nudge you and say: togútačxw lə saltx^w ne? $2 = \{ tita / \#\theta i \theta a \} \}$ łog-út=a=čx^w $2 = \{ \text{tita} / \#\theta = \dot{\psi}\theta \}$ lo=saltx^w ni? recognize-ctr\stat=o=2sg.sbj DET=woman be.there $OBL = \{DEM / F.DEM\}$ 'Do you recognize the woman there?' (sf | EP.2020/10/30)

Tables 7 and 8 show that virtually all forms can serve as locative adverbs if combined with an oblique marker — even feminine demonstratives like $\theta \epsilon 2\epsilon$, $\theta i \theta a$, $\theta i n$, la n, and $l\epsilon n$, and the discourse demonstrative $k^w a n$. Yet, it should be noted that the locative use of these latter forms is somewhat marginal, as indicated by the parentheses in the tables. As for $k^w l\epsilon n$, locative uses currently remain unattested, though we suspect that they should be available as well in some, probably rather unusual, contexts.

Table 7: Loc	cative uses of the GDEMs	Table 8: Locative uses of the SDEMs			
	Locative		Locative		
te?e	\checkmark	tin	\checkmark		
tita	\checkmark	taň	\checkmark		
ta?a	\checkmark	θin	(√)		
θε?ε	(✓)	łań	(√)		
θiθa	(✓)	šiń	\checkmark		
k ^w ıši	\checkmark	łeń	(√)		
k ^w ik ^w a	\checkmark	k ^w ši'n	\checkmark		
k ^w a?a	\checkmark	k ^w łɛ'n	??		
		k ^w an'	\checkmark		

3.3.3 Exceptions and repair strategies

Above we showed that the GDEMs ta^2a , $k^w t i i$, $k^w t k^w a$, and $k^w a^2a$ cannot generally be used as determiners, but only as locative adverbs. However, there seems to be an exception to this rule. If the noun (e.g., *tree*) is part of a locative oblique phrase (e.g., *in the tree there*), these demonstratives can be felicitously used as determiners, as exemplified in (29a–e) below.

(29) Exceptional determiner uses in oblique phrases

a.	Context: I take you out for a walk in the fields. To our left, in the distance, there's a lonesome tree. I point to it and say: $n\epsilon$?šɛ juməns $\chi \epsilon \chi n \epsilon q$ $[OBL$? $[OP$ $ta?a$ $[NP$ $j \epsilon ? j \epsilon]]].ni?šə=jəmən-s\chi i \chi n i q?=ta?aj a? j abe.thereDET=nest-3PossowlOBL=DEMtree'There's an owl nest in the tree over there.'(sf EP.2021/03/05)$
b.	Context: We're out on a boat, and I point out to you the point where Mink was standing and taunting everyone in the Mink and Wolf story. hɛ kwa [pp ta?a [NP sɛ?ɛqʷ]] ?əxw nɛ?s hil=kwa ta?a si?iqw ?ə=xw=ni?=s cop=RPT DEM point obl=obl.NMLZ=be.there=3poss kwɛ?ɛšitoł qayx. kwi?-iš-it-uł qayx stand-INTR-STAT-PST Mink
	'It's the point over there where Mink was standing.' $(vf EP. 2021/04/09)$
c.	Context: We're out on a boat and you point out an island in the distance. $n\epsilon$? $š\epsilon \lambda = 1$ [OBL ?= [DP ta?a [NP k ^w U θ ays]]. ni ? $s=\lambda = 1$ [OBL ?= ta?a k ^w = 0 ays]. be.there DET=dwell-INSTR OBL= DEM island 'There's a shelter on the island over there.' (sf EP.2021/07/10)
d.	Context: From the story of Mink and Grizzly.ho kwa səm layiš $[OBL ?= [DP k^wik^wa [NP \theta oheq^w]]].$ hu=kwa=səmłay-iš?= kwəýkwa θ u-h-iqwgo=RPT=FUT come.ashore-INTROBL= DEMgoing to pull in around the point (there).'(Watanabe 2003:560)
e.	Context: My boat is beached around a point in the distance. I wave in that directionand tell you:16n ϵ ?n ϵ ?[OBL (? \Rightarrow)[DP kwa?a[NP θ oh ϵ qw]]]štt $^{\theta}$ nuxw ϵ ł.ni?? \Rightarrow kwa?a θ u-h-iqws \Rightarrow =t $^{\theta}$ =n \Rightarrow xwiłbe.thereOBL=DEMgo-EPEN-pointDET=1sG.POSS=boat'My boat is on the other side of the point over there.'(vf EP.2021/07/16)

¹⁶ The oblique marker is frequently elided before demonstratives following the locative predicates $n\epsilon$? and niš. Here it was initially elided but judged to be felicitous when re-inserted in follow-up elicitation.

As will be discussed in Section 8.2, these demonstratives have an affinity for identifying locations, allowing them to have determiner uses when the resulting DP identifies a location rather than an atomic entity such as a person or object.

3.3.4 Summary

Tables 9 and 10 summarize the results of our syntactic survey. Our data show that virtually all of the GDEMs and SDEMs can function as locative adverbs — with the exception of k^wlen' , which yet remains to be tested (see footnote 15). For the nominal uses, the picture looks less homogenous. While all SDEMs can serve as pronouns or determiners, the GDEMs appear to be somewhat restricted in their nominal uses. Specifically, ta?a and the k^w -initial forms k^wlsi , k^wik^wa , and $k^wa?a$ cannot be used as pronouns or determiners, unless they appear in an oblique phrase. We believe the semantic contribution of these demonstratives plays a role in this restriction, and we will return to this issue in sections 5 and 6.

Та	able 9: Use	es of the GDEM	Is		Table 10: Uses	s of the SDE	Ms
	Pron.	Det.	Loc.		Pron.	Det.	Loc.
te?e	\checkmark	\checkmark	\checkmark	tin	\checkmark	\checkmark	\checkmark
tita	\checkmark	\checkmark	\checkmark	tan	\checkmark	\checkmark	\checkmark
ta?a		/ √ OBL	\checkmark	θin	\checkmark	\checkmark	(√)
Өг?г	\checkmark	\checkmark	(√)	łań	\checkmark	\checkmark	(√)
<i>θіθа</i>	\checkmark	\checkmark	(√)	šin	\checkmark	\checkmark	1
k ^w ıši		/ √ OBL	\checkmark	łɛń	\checkmark	\checkmark	(√)
k ^w ik ^w a		/ √ OBL	\checkmark	k ^w šiń	\checkmark	\checkmark	\checkmark
k ^w a?a		/ √ OBL	\checkmark	k ^w łeń	\checkmark	\checkmark	??
				k ^w an'	\checkmark	\checkmark	\checkmark

4 Gesture vs. salience

While the previous section examined the syntactic distribution of the demonstratives, we now shift our focus to their semantic and pragmatic contributions. In this section, we will explore the difference between the GDEMs and SDEMs. As we will show, the concept of **joint attention** lies at the core of this distinction. Briefly speaking, this term refers to the communicative requirement that both the speaker and the addressee jointly focus their attention on the same referent (cf. Diessel 2006:465).

4.1 Creating joint attention with the GDEMs

We propose that the GDEMs are used to *create* joint attention between the speech participants, i.e., they occur when the speaker wants to direct the addressee's attention to a new referent. To make sure that the addressee focuses on the desired referent, these demonstratives have to be accompanied by co-speech gestures (cf. Bühler 1934; Diessel 2006). These are usually realized as manual pointing gestures, but can also take on the form of head movements or gazes (cf. König & Umbach 2018). An example where a GDEM is used together with a gesture to draw the addressee's attention to a new referent is given in (30).

(30) Introducing a new referent:

Context: There's a lot of cooking ware left at the gym, and I know some is Gail's, but I'm not sure which ones. I ask you about one of the items.

nasa	Gail	te?e?	
na?-s=a	Gail	ti?i	
belong-3poss=q	Gail	DEM	
'Is this Gail's?'	[lifting c	r pointing to an object]	(vf EP.2020/07/07)

The GDEMs are also commonly used when there is more than one salient referent in the discourse and the speaker is contrasting one with the other, using gesture to direct the listener's attention from one to the other (cf. Diessel 2006:470). This is exemplified in (31).

(31) Contrasting multiple referents:

Context: I	'm hold	ing two pair	nt chips that are different	colours in my	hand. I	ask you:
hɛkʷ čɛ		kwehet	?istayɛgatax ^w ?	hiyas	tɛʔɛ	kwunəs
hił+k ^w =ča		^k wihit	?∍ý-st-ayag-at-ax [™]	hił+as	ti?i	k ^w ən=as
COP+DET=	where	more	good-caus-?-ctr-2sg.e	rg cop+3sbjv	DEM	comp=3sbjv
?ajĭu	hɛł	tɛʔɛ ?	-			
?ajĭu	hił	ti?i				
also	COP	DEM				
'Which or	ie do yo	ou like more	? Do you like this one or	this one?' [po	inting	to or lifting one

object after the other] (vf | EP.2021/05/21)

Since the GDEMs combine language with gesture, we find them primarily in exophoric contexts, i.e., in contexts where the speaker picks out a concrete referent in the external world (cf. Diessel 2006:470; Grosz 2019:565). On the other hand, they are rarely found in stories, except in direct speech contexts.

4.2 Assuming joint attention with the SDEMs

The SDEMs, in contrast, do not *create*, but *assume* joint attention. They generally occur when the speaker talks about a referent that is already unique and salient in the context and, consequently, in

the shared attentional focus of the speech participants.¹⁷ Example (32) illustrates such a context. Here, the speaker first draws the addressee's attention to the boy in the picture via a GDEM with a pointing gesture, but then refers back to the now salient referent with the SDEM tin.

(32) Salient referents:

<i>Context: I ask while <u>pointing at a picture</u> of a young boy that I'm holding:</i>								
get če ga	te?e?	hiya čɛ	Freddie	tin?	-			
gat=ča=ga	ti?i	hił+a=ča	Freddie	tin				
who=infer=dprt	GDEM	cop+q=infer	Freddie	SDEM				
'Who might this be? Could this be Freddie?' (vf EP.2021/02/2								

While the SDEMs occasionally occur with co-speech gestures, they do not require them. This becomes particularly clear in contexts where the referent is not a concrete entity in the external world. For instance, the SDEMs can also be used to refer to abstract referents, such as temporal concepts (e.g., 'afternoon', 'day', etc.), as in (33), propositions, as in (34), or even discourse segments, as in (35).¹⁸ The referent in these cases cannot be picked out by gesture.

(33) Temporal concepts:

a.	Context: The weather forecast afternoon, and everyone is prep			re's a strong wi	indstorm coming this
	saymot kwa səm pu?əm say-mut=kwa=səm pu?-əm	tiỉ tiỉ	k ^w ota k ^w əta		
	strong-INT=RPT=FUT wind-MDI 'There's going to be strong wind				(vf EP.2021/05/16)
b.	уεχátołč yax़-át-uł=č remember-стк\sтат-рsт=1sg.sвյ 'I remember the day I came hon	DEM	ť ^θ ok ^w ť ^θ uk ^w day	?ət ^θ q ^w ol ?ət ^θ =q ^w əİ 1sg.poss=come	hɛwtoł. hiwt-uł get.home-PST (sf EP.2021/03/14)

(34) Propositions:

Context: A guest staying with us comments on our neighbour who's already out gardening early in the morning: k^wot gi, ti ne? papern ?ə tə ?asq. 'Look, he's out gardening already.' I reply: heł tan ?əx^w nams.

hił tań ?ə=x^w=nəṁ-s cop SDEM CLF=NMLZ=be.like-3poss 'That's how he is.'

(vf | EP.2021/05/07)

¹⁷ Other Coast Salish languages, like Island Halkomelem (Gerdts & Hukari 2004:9), Musqueam (Suttles 2004:353), and Klallam (Montler 2007:420–423), appear to have similar demonstratives (containing *-nil* or $-\lambda a$, respectively). These have often been associated with 'definiteness'.

¹⁸ We will return to the use of $k^{w}an$ in more detail in Section 4.6.

(35) Discourse segments:

a.	natuwomoł na-t-uw-əm-?uł	nd of an instruction abo ?əkʷ kʷan ?ə=kʷ=kʷan PST OBL=DET=SDEM y that to us.'	out pregnancy. ta?at. ta?at HAB		(Watanabe 2021:102)
b.	na?s na?-s possess-3poss	cing the topic of an upo k ^w υθ hεhεw k ^w ə=θ=hihiw DET=2sg.poss=first hen you first have a bab	mənmən?əm mənmən?əm have.babies	2 kʷaỉ kʷaỉ SDEM	(Watanabe 2021:96)
c.	Context: Wrappi hɛł kʷa'n! hił kʷa'n сор SDEM 'That's it!'	ng up a story.			(Watanabe 2021:103)

In contrast to the GDEMs, the SDEMs occur quite frequently in narratives outside of direct speech contexts.

4.3 Comparing SDEMs and GDEMs

Table 11 summarizes the main uses of the GDEMs and SDEMs, and their compatibility with concrete and abstract referents.

	GDEMs	SDEMs
Introducing a new referent via gesture	\checkmark	
Contrasting multiple salient referents	\checkmark	
Referring back to an already unique & salient referent		\checkmark
Compatible with concrete entities in the external world	\checkmark	\checkmark
Compatible with abstract entities (temporal terms, etc.)		\checkmark

Table 11: Comparing GDEMs and SDEMs

Since GDEMs and SDEMs pattern quite differently, it is not hard to find contexts where one of them is felicitous and the other isn't, and vice versa. For instance, GDEMs are felicitous when a gesture is required to single out an entity from a group, as shown in (36). The use of an SDEM is infelicitous here since the referent is not already salient in the context.

(36) Singling out an entity:

Context: Pointing to one man in a picture of a men's soccer team.get=ga{te?e / #tin}tumiš?gat=ga{ti?i / #tin}tumišwho=DPRT{GDEM / SDEM}man'Who is this?''''

(sf | EP.2021/03/27)

Similarly, GDEMs can be used when contrasting two referents, while SDEMs cannot be used in these contexts. This is due to the fact that such contexts require shifting joint attention from one referent to another, rather than relying on previously established joint attention. Gesture is used to direct the addressee's attention in these cases.

(37) Contrasting multiple referents:

Context: Marianne and Daniel have picked out some flowers for Gloria for her birthday. Then, before they've taken the flowers to the till to pay for them, Marianne notices some others that she thinks are better.

»oh«,	hotkwa		Maria	nne, >	»q™ayın	xwa?,				q ^w asəm.
oh	hut=k ^w a	ı	Maria	nne	q ^w ayin	xwa?	hi l =səm	təyta	tat ^e im	q ^w asəm.
oh	say=rp	Г	Maria	nne	maybe	NEG	COP=FUT	GDEM	red	flower
c	l ^w ayın	hεł	tan	ḱʷεhεt	?i.«					
c	l ^w ayin	hił	tan	<i>k</i> ^w ihit	?əỷ					
r	naybe	COP	DEM	more	good					
">Oh«, says Marianne, »Maybe not, let's get those red flowers. I think those are better.«"										

»x ^w a?,?i ?ot	{ tɛʔɛ / #tiǹ}«,	hotkwa	Daniel,	»hɛ səm	tin		
xwa? ?əÿ=?ut	{ti?i / #tin}	hut=kwa	Daniel	hił+səm	tin		
NEG good=excl	{gdem / sdem}	say=rpt	Daniel	COP +FUT	DEM		
?ə matat.«							
?ə=ma?-t-at							
clf=get-ctr-1pl.erg							
'»No, these are good«, says Daniel, »we'll get these.«'				(vf I	EP.2021/04/23)		

In contrast, SDEMs are felicitous when talking about abstract referents, like temporal concepts, propositions, or discourse segments. Here, GDEMs cannot be used since such referents cannot be identified by gesture.

(38) Propositional referents:

Context: A guest staying with us comments on our neighbour who's already out gardening early in the morning: \dot{k}^{w} ot gi, ti ne? paper ?ə tə ?asq. 'Look, he's out gardening already.' I reply:

hɛł	{ tanํ / #tita}	?əx ^w nams.	
hił	{tan / #tita}	?ə=x ^w =nəḿ-s.	
COP	$\{\text{SDEM / GDEM}\}$	clf=clf.nmlz=be.like-3poss	
'That	's how he is.'		(vf EP.2021/05/07)

(39) Temporal referents:

Context: Late at night, I come in from outside and say to you:						
hehew	čimčimmot	{ tin / #tɛ?ɛ}	nanat.			
hihiw	čəm~čəm-mut	{tin / #ti?i}	nanat			
really	cold~char-int	$\{$ SDEM / GDEM $\}$	night			
'It's really cold tonight.' (lit.: 'This night is really cold.')				(sf FL.2021/02/08)		

4.4 The storyboard test

Perhaps the best way to illustrate the contrast in use between the GDEMs and the SDEMs is with a short dialogue. We used a number of short storyboards to elicit dialogue using the demonstratives. We designed these to have referents initially picked out of a group by gesture, referred back to anaphorically, and placed in contrast with one another. One of these dialogues is shown in (44). The dialogue shows that GDEMs, but not SDEMs, are felicitous when introducing a new discourse referent via gesture (and thereby placing it in joint attention), while SDEMs, and not GDEMs, are felicitous when using a demonstrative to subsequently refer back to the same referent. Note also the use of k^wan to refer anaphorically back to the discourse segment $h\varepsilon$ som tin 20 ma2tat 'We'll get this one'.

(40) Preamble: Marianne and Felipe go to a garage sale to buy a new pot...



F: »čuň ga {tɛʔɛ / #tiň}? ?ɛnɛtegənčx^w? čəm²=ga {tiʔi / #tiň} ?init-igan=čx^w ouex=dprt {ddem / sdem} say.what-inner.self=2sc.sbj '»How about this one? What do you think? Do you like it?«'

?isx^wačx^w?« ?əŷ-sx^w=a=čx^w good-caus=q=2s.sbj

M:	»q ^w ayıgən x ^w a?, heł q ^w ayigan x ^w a? hił maybe NEG COF '»I don't think so, I pr	{ti?i / #tin} {gdem / sdem}	?ə kwehet ?ə=kwihit овг=more	?istayɛgatən.« ?əÿ-st-ayag-at-an good-caus-??-ctr-1sg.erg
M:	»q ^w ayın hε səm q ^w ayin hił+səm maybe cop+Fut '»I think we'll get this	{tin / #te?e} {Sdem / gdem}	?ә matat.« ?ә ma?-t-at clf=get-стк	-1pl.erg
F:	»q ^w ayın ?i ?ot q ^w ayin ?əÿ=?ut maybe good=exc '»I think that's good«,	k ^w an hut=k сL SDEM say=r	wa Felipe	
M:	kwinus=ga {ti	?ɛ / ?tiǹ } «, hotk̀wa Pi / ?tiǹ } hut=k̀wa DEM / SDEM } say=RPT says Marianne, she	Marianne Marianne	gayɛtəs sałtx ^w . gay-at-as sałtx ^w ask-ctr-3erg woman
E:	»q ^w ayıgən pawus«, q ^w ayigan pawus maybe one.dolla '»I think one dollar«, s	hut=k ^w a sałtx say=крт wom	W	
M:	»?i ?ot«, hotkwa ?əÿ=?ut hut=kwa good=excl say=rpt '»Oh good«, says Mar		səm {tin / # -Fut {sdem /	

4.5 The special case of $k^{w} \check{s} i n$

In Section 4.3, we proposed that the SDEMs are used when there is a unique and salient referent that is already in the joint attention of both speech participants — and indeed, this generalization seems to hold for most of the forms in the paradigm. However, when we look at $k^{w} \dot{s} i \dot{n}$, we run into some problems with this definition.

In some cases, $k^{w} \bar{s} i n$ patterns exactly as expected, i.e., it is used to refer back to a salient referent that both speech participants are already paying attention to. A few examples for this use are given in (41). Here, the demonstrative refers to a specific entity, and speakers usually translate it with 'this' or 'that'.

(41) SDEM uses of $k^{w} \dot{s} i \dot{n}$:

a.	čiyítč čiy-it=č hear-ctr=1sg.sbj	<i>male voice outside</i> k ^w tumiš ?ək ^w k ^w =tumiš ?ə=k DET=man OBL= side. Who could tha	?asqič. w=?asqič DET=outside	gɛt č́ɛ gat=ča	k"šiň ? k ^w šiň dem (sf EP.2021/02/26)
b.	nene	?ismot ?əỷ-sx ^w -mut good-caus-ınt	k ^w šin wuv	wumtən. w-əm-tən g-MD-INSTR	(vf EP.2021/01/08)
c.		g.poss=from	y. Daniel says	s:	(vf EP.2021/06/12)

However, occasionally, $k^{w} \dot{s} \dot{i} \dot{n}$ also shows up in contexts where there is no salient referent in the context at all. Consider, for instance, the examples in (42). In each of these cases, the speaker is not referring to anyone in particular, but to some unidentified individual (i.e., 'someone'). In other words, $k^{w} \dot{s} \dot{i} \dot{n}$ acts like an indefinite, and not like a typical demonstrative.¹⁹ This, in turn, calls into question how a concept like joint attention would even apply for such uses of $k^{w} \dot{s} \dot{i} \dot{n}$. In (42a), for instance, the speaker worries that a reckless child on a bicycle might hurt a hypothetical, not yet realized passerby at some point in the future; and in (42d), the demonstrative is used for an entity asserted not to exist. But how could joint attention exist between both speech participants for a hypothetical individual or one that does not exist?

¹⁹ Traditionally, demonstratives have been associated with 'definiteness'. However, Deichsel (2015:190) argues that 'demonstrativity' and '*in*definiteness' are not necessarily conflicting concepts, but can interact, as illustrated in the example below.

⁽iv) 'You won't believe what happened to me. Yesterday in the pub, **this** guy started talking to me. He was really nice and we realized that he's from the same village as I am.' (Deichsel 2015:1)

In this case, she argues, *this* functions not only as a referential expression (like a demonstrative), but also introduces a discourse-new referent (like an indefinite). At least for $k^{w} \sin n$, not even the referential part appears to be necessary.

(42) Indefinite uses of $k^{w} \dot{s} i \dot{n}$:

a.		•	0	d the field on his new omeone comes, he con	v bike. So far no one has
	hehewč	λašiganmεt.		?ɛłagux ^w əs	k ^w šin.
	hihiw	λašigan-mi-t	jaqa?	?ilag-əx∞-as	k ^w šin
	really	WOTTY-REL-CTR	EX	get.hurt-NCTR-3ERG	DEM
	'I'm really	worried about it. H	e might l	hurt someone.'	(sf EP.2021/07/02)
b.	Context: W	hen I go for a walk	, I find a	\$20 bill outside the l	odge. When I come back,
	I tell Glorid	a and Daniel:		,	.

θiyiččεn	?ə tə tala.	čε	xwotmenom	?∍ k™šin ≀.
θiyič=čan	?ə=tə=tala	ča	x ^w otm-i-nu-m	?ə=k™šin
find=1sg.sbj	OBL=DET=money	INFER	drop-?-nctr-pass	OBL=DEM
'I found some	(vf EP.2020/10/02)			

- c. Context: I hear someone in the front room at the lodge, but Gloria is with me at the table and we didn't know anyone else was there.
 nɛ? čɛ kʷšiň ?əkʷ θohna.
 ni?=ča kʷšiň ?ə=kʷ=θuhna
 be.there=INFER DEM OBL=DET=other.room
 'Someone is in the other room.' (sf | EP.2021/07/24)
- d. Context: Daniel and I thought we'd heard someone talking outside, but when we went to see, there was no one there. When we come in, we tell Gloria: k^wšiń. x^wuk^wt q^wayın hεł k^w pu?əm ?ə čiyıtət. xwukwt k^wšin q^wayin hił k^w=pu?əm ?ə=čiy-it-at maybe DET=wind CLF=hear-CTR-1PL.ERG not.exist DEM COP 'There's **no one** there. Maybe it was the wind that we heard.' (sf | EP.2021/07/30)

An explanation for the unusual behavior of $k^{w} \dot{s} i \dot{n}$ might be found in its formation history. Morphologically speaking, it appears to be comprised of the indefinite determiner k^{w} and the demonstrative $\dot{s} i \dot{n}$. As highlighted by Huijsmans et al. (2020:172) and Reisinger et al. [in press], k^{w} introduces indefinite DPs in a variety of contexts: it is used for entities asserted not to exist (43a) or not known to exist (43b), as well as where the speaker generalizes over a group (43c).

- (43) Indefinite uses of the k^w determiner:
 - a. Context: Marianne is about to start weaving a basket with Betty, but she doesn't have an awl. She tells Betty:
 x^wuk^wt k^wot⁰ x^wox^wp.
 x^wuk^wt k^w=ət⁰=x^wux^wp
 not.exist DET=1sG.POSS=awl
 'I don't have an awl.' (Huijsmans et al. 2020:172)

b. nε?a k^wυθ ?ayšε?əm? ni?=a k^w=əθ=?ayša?əm be.there=ǫ DET=2SG.POSS=change 'Do you have any change?'

(Huijsmans et al. 2020:172)

c. Context: At a ring shop, I walk up to a display case with the type of thing I want and tell the salesperson:
?ət^θ χaλ, t^θ yəq?əm
?ək^w t^θagateq^wojɛtən.
?ət^θ=xaλ, t^θ=yəq?əm
?ə=k^w=t^θagatiq^wujatən
1sG.Poss=desire
1sG.Poss=buy-ACT.INTR
OBL=DET=ring
'I want to buy one of these rings.'

We therefore hypothesize that the indefinite semantics of $k^w \bar{s}in$ arise due to the k^w element, and that the contribution of $\bar{s}in$ itself is lost in this combination. This suggests that the entire element has been lexicalized as a unit with the semantics of the k^w determiner — but in contrast to the k^w determiner, which requires a following NP, it is able to function as a DP on its own, like a demonstrative.

While it is tempting to assume that k^{wlen} , as the feminine counterpart of k^{wsin} , patterns the same, preliminary evidence suggest that this is not the case. More specifically, our data indicate that it does not seem to share the same indefinite semantics. At this point, the examples we have found where it is felicitous all involve reference to an entity previously mentioned in the discourse, as shown in (44a–b), whereas it cannot be used for hypothetical entities (44c) or for those that do not exist (44d). It seems that k^{wlen} , then, can be treated as a more canonical SDEM requiring joint attention for felicitous use.

(44) SDEM uses of $k^{wl}\epsilon n$:

a.	Context: I hear a woman's voice outside my house at night.					
	čiyítč	k ^w sałtx ^w .	get če	kʷłɛń?		
	čiy-ít=č	k ^w =sałtx ^w	gat=ča	k ^w łiń		
	hear-ctr=1sg.sbj	DET=woman	n who=infer	DEM		
	'I hear a woman. V	Who could th		(sf EP.2021/03/27)		

b. Context: Someone mentions a name of a woman you don't know and are not familiar with, but whose name you heard in the context of the election of a neighbouring nation. You inform that person:

het k ^w a				su lotəm.		
hił=kwa	kʷłin	S9	k ^w a	šu?-ut-əm		
COP=RPT	DEM	CLF	CLDEM	choose-ctr-pass		
'That's the one that was elected.'						

(vf | EP.2021/07/09)

(45) Infelicitous indefinite uses of $k^{wl}\epsilon n$

a.	Context: I come to	the lodge and se	e someone's purse and w	veaving project on the
	table. I say:			
	nišoł čε	χ ^ω οχ ^ω οῥε?εč	{# kʷłɛnໍ / kʷšinํ}.	
	niš-uł=ča	x ^w u~x ^w upi?ič	{#kʷłin / kʷšin }	
	be.here-pst=infer	PROG~weave	{dem / dem }	
	'Someone must hav	(sf EP.2021/07/10)		

b. Context: A maternity nurse is assigned a new patient at the hospital. She goes to check on her for the first time and doesn't find anyone in the room. She goes back to the other nurses and says:

chier himses and sujst						
i.	# x ^w uk ^w t	k ^w łɛń.	ii.	# x ^w ač	k ^w ʊnʊx ^w ən	k ^w łɛ'n.
	x ^w uk ^w t	kʷłiń		x™a?=č	k ^w ∍n-∍x ^w -an	kʷłiń
	not.exist	DEM		neg=1sg.sbj	see-nctr-1sg.erg	DEM
	'There was no one .'			'I didn't see anyone .'		
					(sf EP.202	21/07/30)

4.6 The discourse demonstrative *k*^wan

Another exceptional SDEM is $k^w a n$. This demonstrative is best described within the realm of discourse deixis, or text deixis, as it is sometimes called (cf. Levinson 1983; Marmaridou 2000). Briefly speaking, $k^w a n$ is used when the speaker wants to refer to some portion of the previous or upcoming discourse. That is, it does not refer to some referent in the external world, but to a linguistic expression (i.e., a word, phrase, utterance, or even the entire discourse). In (46a), for instance, $k^w a n$ does not point to the concrete person that will give the linguistics talk, but to the words that Daniel used in the preceding discourse to talk about that person. Likewise, in (46b), $k^w a n$ does not refer to certain pregnancy-related practices in the external world, but to the preceding discourse segment that described these practices.

(46) Discourse deixis with k^wan

a.	Context: Daniel mentions that Gloria found someone to give a talk at a linguistics gathering, but not who it is. I stop him and ask: get ga {kwan / #kwšin}? gat=ga {kwan / #kwšin}			
	who=dprt {DISC.DE 'Who is that?'	м / dem }		(sf EP.2021/03/27)
	who is that:			(31 L1.2021/03/27)
b. <i>Context: At the end of an instruction about pregnancy.</i>				
	natuwomoł	?∍k ^w k™an ≀	ta?at.	
	na-t-uw-əm-?uł	?ə=k™=k™an	ta?at	
	say-ctr-1pl.obj-pSt	OBL=DET=DISC.DEM	HAB	
	'They used to say that	t to us.'		(Watanabe 2021:102)

While the uses of $k^w a \dot{n}$ seem to involve reference to a segment of discourse that is salient and therefore fit our characterization of SDEMs as involving previously established joint attention, they

are exceptional for a demonstrative in that they do not involve reference to an entity in the external world and, therefore, cannot involve the spatial notions typically encoded by demonstratives.

5 Deictic distance

In many languages, demonstratives also encode whether the speaker considers the referent to be close (= proximal) or far (= distal) from the deictic center — or the *I-now-here-origo*, as Bühler (1934) calls it. In the traditional account, the deictic center can be equated to the speaker at the time and place of the utterance. Accordingly, in English, the demonstratives *this* and *here* are usually used for referents that are close to the speaker at the time of speaking, while *that* and *there* are used for more distant referents — though such purely distance-based accounts have been called into question in recent years (cf. Kemmerer 1999; Piwek et al. 2008; Peeters et al. 2015; among others).

The proximal/distal distinction has been described as a language universal by Diessel (1999), and consequently, it is not surprising that we also find it in the demonstrative system of ?ay?ajuθəm. For the GDEM paradigm, we observe a three-way split between proximal, near-distal, and distal forms; for the SDEM paradigm, a three-way split between proximal, distal, and distance-neutral forms.

	GDEMs	SDEMs
Proximal	/ti?i/, /θi?i/, /kʷəši/	/tiň/, /θiň/
Near-distal	/ti?i/, /0i?i/, /kʷəši/ /təỷta/, /0əỷ0a/, /kʷəỷkʷa/ /ta?a/, /kʷa?a/	
Distal	/ta?a/, /kʷa?a/	/tan/, /łan/
Distance-neutral		/łiń/, /šiń/, /kʷšiń/, /kʷłiń/, /kʷań/

Table 12: Deictic distance in the demonstrative paradigms of ?ay?ajuθəm

In both paradigms, as shown in Table 12, the proximal forms tend to be associated with the vowel /i/ (e.g., /*ti?i*/, /*tin*/), while the distal forms tend to be associated with the vowel /a/ (e.g., /*ta?a*/, /*tan*/). The connection between these particular vowels and the concept of deictic distance is not only well attested in other corners of ?ay?ajuθəm,²⁰ but also on a cross-linguistic scale (cf. Diessel 2014:126).²¹

[Beaumont 2011:464]

²⁰ Huijsmans and Reisinger [in press (b)] note that deictic distance is reflected in the same way in the phonetic forms of the clausal demonstratives (e.g., ti ['PROX'], ta ['DIST']).

²¹ This generalization obviously does not apply to the distance-neutral forms. While most of these forms contain the vowel /i/ and, consequently, look like proximal demonstratives, their potential distal counterparts with the vowel /a/ (e.g., *šan, *k*šan, *k*łan) remain unattested. We hypothesize that the SDEM paradigm in ?ay?ajuθəm partially collapsed at some point, leading to the disappearance of the distal forms, and resulting in the emergence of these distance-neutral demonstratives. This assumption is primarily driven by the fact that the proximal/distal distinction is quite well attested for these demonstratives in other Coast Salish languages. In Sechelt, for instance, the cognate for *šin* (i.e., SE *shitl'um;* short: *shim*), contrasts with another, similar looking form (i.e., SE *shatl'um;* short: *sham*) in terms of deictic distance:

⁽v) *shatl'um* (short: *sham*) (female or non-female: unidentified, **farther away than** *shitl'um*)

Yet, what exactly counts as proximal or distal is not always easy to say. As Diessel and Coventry (2020) point out, these categories are in general heavily dependent on the context and on how the speaker conceptualizes the speech situation. Consider, for instance, the following uses of the proximal demonstrative *here* in English.

- (47) a. Here in my hand.
 - b. Here in my room.
 - c. Here in Vancouver.
 - d. Here in the Pacific Northwest.
 - e. Here on planet Earth.

We find this same context dependence in $ayaaju\thetaam$. For instance, while proximal forms are typically used to refer to something that's within the speaker's reach, as in (48a), they can also be used for entities that are far beyond the reach of the speaker (48b).

(48) Context dependence for deictic distance:

'We always come to this restaurant.'

a.	gɛt g gat=g who=	a tɛʔɛ ga tiʔi =DPRT PROX	. DEM child	
	'Who	o is that child	1?	(sf EP.2021/07/24)
b.				,
	hɛł	te?e	?ɛłtənawtx ^w ?əms payɛ?	q ^w e?eq ^w ol.
	hił	ti?i	?iłtən-awtx ^w ?əms=paya?	je <wp>ie/iwp></wp>
	COP	PROX.DEM	eat-building 1PL.Poss=always	s come <pl><di>DIM></di></pl>

Despite this context dependence, the language offers ways to establish whether a demonstrative counts as proximal or distal. The most useful tool to test the deictic distance of demonstratives is their compatibility with the deictic verbs niš ('be here') and $n\epsilon$? ('be there'). While the former only occurs with proximal referents, the latter only occurs with distal referents.²² Using these deictic verbs as a diagnostic, we can easily identify the distance contrasts.

(sf | EP.2021/07/16)

The only form in Sechelt, which seems to be inherently distance-neutral is the cognate for the discourse demonstrative $k^{w}a\dot{n}$ (i.e., SE *kwam*; cf. Beaumont 2011:464).

²² A caveat needs to be made for $k^{w_i si}$, which co-occurs with the distal deictic predicate $n\epsilon^2$ (vi) as well as the proximal deictic predicate $ni\bar{s}$ (49c), perhaps because what counts as proximal for a non-visible referent is less constrained.

⁽vi) Context: You ask to borrow a pair of scissors. Indicating the cupboard behind me, I tell you:

nε? **k^wιši**. ni? k^wəši

be.there DEM

^{&#}x27;They're in there.'

5.1 The proximal demonstratives

The set of proximal demonstratives includes the GDEMs $t\epsilon^2\epsilon$, $\theta\epsilon^2\epsilon$, and k^{w_l} is *i*, and the SDEMs *tin* and θ *in*. Usually, they occur in contexts where the referent is within reach of the speaker. Below, we provide some contexts illustrating their use, and present negative evidence showing that the use of their near-distal or distal counterparts is not licensed in these scenarios.

(49) Proximal GDEMs (vs. near-distal GDEMs):

a.	Context: A and B are seated at the kitchen table. A asks B for the salt, which is in front of B. B says:				
	niš	$\{\mathbf{t} \boldsymbol{\epsilon} \mathbf{r} \boldsymbol{\epsilon} / \# \mathbf{t} \mathbf{t} \mathbf{t} \mathbf{a} \}.$			
	niš	{ti?i / #təyta}			
	be.here	{prox.dem / ndist.dem}			
	'Here it is.'		(sf EP.2021/03/14)		
b.	Context: I'm asking who a lady is in a picture that I'm holding in my hand. get ga $\{\theta \epsilon \} \epsilon / \# \theta i \theta a \}$?				
		$\{\theta_i\}^i / \#\theta_i = \hat{\psi}_i$			
	0 0	{PROX.DEM / NDIST.DEM }			
	'Who is this		(sf EP.2021/07/16)		
c.	Context: As we're leaving the house, I ask Gloria whether she's got the keys. She lifts				
	her handbag and says:				
	niš	{ kʷıši / #kʷikʷa}.			
	niš	{kʷəši / #kʷəÿkʷa}			
	be.here	{prox.dem / ndist.dem }			
	'They're here.'				
	Comments:	''kʷikʷa <i>is away from you.</i> "	(sf EP.2021/03/14)		

(50) Proximal SDEMs (vs. distal SDEMs):

a. Context: My brother and I are looking through an old picture album that my parents have. I have it in my lap. There's a picture of a guy I kind of recognize but can't quite place. I ask togutačx^w te?e? "Do you recognize this (man)? ..." hεł $\{\mathbf{tin} / \# \mathbf{tan}\}$?əms jɛ?jɛ. q^wayın {tin / #tan} qwayin hił ?əms=ja?ja maybe {prox.dem / dist.dem} 1PL.POSS=relative COP 'I think he's our relative.' (sf | EP.2021/07/10)

A contrast between the proximal GDEM $k^w i \check{s} i$ and the near-distal GDEM $k^w i k^w a$ can still be found with respect to their compatibility with the deictic predicates, however, since $k^w i k^w a$ is not compatible with the proximal $ni\check{s}$ (see 56c).
b. *Context:* My brother and I are looking through an old picture album that my parents have. I have it in my lap. There's a picture of a woman I kind of recognize but can't quite place. I ask togutačx^w $\theta \epsilon$? ϵ ? "Do you recognize this (woman)?" awavın hεł $\{\theta i \dot{n} / \# la \dot{n}\}$?əms ĭɛ?ĭɛ. q^wayin hił { θ in / #łan } ?əms=ja?ja 1PL.POSS=relative maybe COP {PROX.DEM / DIST.DEM } 'I think she's our relative.' (sf | EP.2021/06/05)

5.2 The near-distal demonstratives

The near-distal category encompasses the GDEMs *tita*, $\theta i \theta a$, and $k^{w}ik^{w}a$. They are typically used for locations or entities out of reach but within a space adjacent to the area occupied by the speaker. For *tita* and $\theta i \theta a$, which require the location or entity to be visible, this typically means across the room, yard, road, etc. from where the speaker is. For $k^{w}ik^{w}a$, which is used for locations that are not visible, this typically means in the next room, around the next point, behind the fence, etc. In contexts like these, neither their proximal (51) nor their distal counterparts (52) can be used instead.

- (51) Near-distal GDEMs (vs. proximal GDEMs):
 - Context: A and B are seated at the kitchen table. A has forgotten where she left her a. purse. A says, thinking out loud "I wonder where I left my purse." B replies pointing to a purse on the kitchen counter: ne? {tita / #te?e}. ni? {təyta / #ti?i} be.there {NDIST.DEM / PROX.DEM} 'There it is.' (sf | EP.2021/03/14) b. *Context: I'm asking about a lady who is standing across the gym.* $\{\theta i \theta a / \# \theta \epsilon \}$? get ga $\{\theta = \dot{y} \theta = / \# \theta = i \}$ gat=ga {NDIST.DEM / PROX.DEM} who=dprt 'Who is that (woman)?' Consultant: " $\theta \epsilon \epsilon$ is right in front of you." (sf | EP.2021/07/16) Context: Felipe and I are packing for a camping trip. I was going to get some cutlery c. from the kitchen, but Felipe stops me because he wants to take some old cutlery we have stored in the attic. He points to the entry to the attic and says: he səm še ne? { $\mathbf{k}^{w}\mathbf{i}\mathbf{k}^{w}\mathbf{a}$ / ?? $\mathbf{k}^{w}\iota\mathbf{\tilde{s}}\mathbf{i}$ } qəmes hił=səm šə=ni? {kwəykwa / ??kwəši} qəm<i>s {NDIST.DEM / PROX.DEM} COP=FUT DET=be.there put.away<stat> ?ə yeqašet. ?ə=yəq-aš-at OBL=USe-TR-1PL.ERG 'We'll use the ones that are put away up there.'

Consultant: "[For kwiši], it has to be in your general area." (sf | EP.2021/07/10)

(52) Near-distal GDEMs (vs. distal GDEMs):

a.	Context: We	're sitting at the table. I ask you where the salt is. You point to the end of
	the table and	l tell me:
	ne?	{ tita / #ta?a}.
	ni?	{təyta / #ta?a}
	be.there	{NDIST.DEM / DIST.DEM}
	'It's there.'	(sf FL&HT.2021/07/26)
	Consultant:	"ta?a would be over on the counter, further [away]."

b. Context: As we're walking by a fence, we hear ducks on the other side. I know the area well, so I explain to you:
 nε? ? ? {k^wik^wa / #k^wa?a} šε θεθayeł.

ni?	?ə={kʷəỷkʷa / #kʷa?a}	šə=θ <iθ́>ayał</iθ́>	
be.there	OBL={NDIST.DEM / DIST.DEM}	DET=lake <dim></dim>	
'There's a	little pond there.'		(sf EP.2021/07/24)

c. Context: I'm helping you in your yard and I want to clean up some fallen leaves so I ask: čε kw nεs θ ličomixwtən? 'Where is your rake?' It's just leaning against the wall inside the shed that is just beside us, so I tell you [pointing]:
nε? {kwikwa / #kwa?a}.
ni? {kwəỳkwa / #kwa?a}
be.there {NDIST.DEM / DIST.DEM}
'It's there.'

Consultant: "[kwa?a] means it's further away." (sf | EP.2021/07/24)

5.3 The distal demonstratives

Finally, the set of distal forms — including the GDEMs ta?a and k``a?a, and the SDEMs tan' and lan' — are used for anything beyond the previously discussed categories. Particularly, in the GDEM paradigm, they usually refer more vaguely to a general area or direction. In (53), we show how the distal forms contrast with the near-distal forms in the GDEM paradigm; in (64), how they contrast with the proximal forms in the SDEM paradigm.

(53) Distal GDEMs (vs. near-distal GDEMs):

a. Context: You're pointing me in the general direction of Freddie's house. We can't see his house from here, but we're looking towards the general area.

ne?	{ ta?a / #tita}	še ?aye?s.	
ni?	{ta?a / #təyta}	šə=?aya?-s	
be.there	{dist.dem / ndist.dem}	DET=house-3poss	
'His house	is over there.'		(sf EP.2021/07/16)

b. Context: You're pointing me in the general direction of Freddie's house. We can't see his house from here because it is behind a hill.

nε?{kwa?a / #kwikwa}šε ?ayε?sFreddie.ni?{kwa?a / #kwəykwa}šə=?aya?-sFreddiebe.there{DIST.DEM / NDIST.DEM}DET=house-3PossFreddie'Freddie's house is over there.'Consultant: "If the house was just on the other side of a big fence or a big hedge, then you could use kwikwa."(sf | EP.2021/07/16)

c. Context: My boat is beached around a point in the distance. I wave in that direction and tell you:

ne?	?ə { kʷa?a / #kʷikʷa}	θohεq ^w	šιt ^θ nux ^w εł.
ni?	?ə={kʷa?a / #kʷəỷkʷa}	θu-h-iq ^w	šə=t [⊕] =nəx ^w ił
be.there	obl={dist.dem / #ndist.dem}	go-epen-point	det=1sg.poss=boat
'My boat is	s on the other side of that point.'		(sf EP.2021/07/16)

(54) Distal SDEMs (vs. proximal SDEMs):

a.	Context: W	Ve're hiking and looking	out for a go	od place to	picnic. I spot a sunny			
	clearing through the trees. I point in that direction and say:							
	he səm $\{ tan' / #tin' \}$?a?jiyuk ^w ?əms θo k ^w anačım.							
	hił+səm	n {tan / #tin } ?a?jiyuk	?a?jĭyuk™	?əms=θu	k ^w anač-əm			
	COP+FUT	{dist.dem / prox.dem}	1pl.poss=go sit-mdl					
	'We'll go sit in that clearing.'				(sf EP.2021/07/02)			

b. Context: Talking about someone at the other side of the room at a gathering. hεł { $\mathbf{lan} / \#\theta in$ } tuwa qoyomiš. q^wayın qwayin hił $\{ \frac{1}{4an} / \#\theta in \}$ tuwa qwuxwumiš maybe COP {DIST.DEM / PROX.DEM } from Skwxwú7mesh 'I think she's from Squamish.' Consultant: "[You use] θ in if she is sitting beside you or a few seats away — it's the distance." (sf | EP.2021/07/16)

5.4 The distance-neutral demonstratives

The demonstrative system is completed by a handful of SDEMs which do not encode deictic distance at all, and which we consequently label *distance-neutral*. This group encompasses the forms \vec{sin} , len, $k^w \vec{sin}$, $k^w len$, and $k^w an$. As we will show in Section 6, what these demonstratives have in common is that the referent is not visible to the speaker at the time of utterance and, consequently, they often cannot be located.²³ Consider, for instance, the examples in (55).

²³ Of course, if the referent is a static entity that never changes its location (e.g., a store, a country), as in (vii), and the speaker is familiar with it from a prior occasion, they could theoretically classify it as proximal or distal. However, such cases form the exception, not the rule, and, since these forms are not split into proximal and distal counterparts, they will not vary according to whether such fixed entities are near or far.

(55) Distance-neutral SDEMs:

a.	Context: When I go for I tell Gloria and Dan	6	a \$20 bill outside i	the lodge. When I come back,
	θiyiččεn ? a ta tala	. če	xwuțmenom	?ə k™šin.≀
	θiyič=čan ?ə=tə=ta	la ča	x ^w otm-i-nu-m	?ə=k™šin
	find=1sg.sbj obl=det	money INFER	drop-?-nctr-pass	OBL=DEM
	'I found some money	. Someone must	t have dropped it.'	(vf EP.2020/10/02)
b.	it's a relative of Fred	die's. You wond len? lin		the band office, and she heard at would be.
	'I wonder who that is	?		(sf EP.2021/07/02)
c.	na-t-uw-əm-?uł say-ctr-1pl.obj-pst	?ək ^w kwan ?ə=kw=kwar obl=det=di	ta?at. h ta?at	
	'They used to say tha	t to us.'		(Watanabe 2021:102)

5.5 Beyond space

In all examples discussed so far, the deictic distance between the speaker and the referent has been measured on a spatial level. However, in some exceptional cases, we find that certain demonstratives also seem to measure **temporal distance**. This is particularly relevant for referents that cannot be located in space, like temporal referents, as shown in (56). In these cases, the proximity indicates that the time span referred to (e.g., night, evening, morning, etc.) is part of the day the speaker is temporally located within.

(vii) a.	heł ši hił ši cop dr	і п́ in ем	eone mentions the Value ?ət ⁰ ma?ax ^w oł ?ət ⁰ =ma?-əx ^w -uł 1sg.poss=get-NCTR-PST e I got my jeans.'		(sf EP.2021/06/19)
b.	hɛł kʷ hił kʷ cop dł	w šin ^w šin EM	eone mentions Germany ?ət ^θ tuwa. ?ət ^θ =tuwa lsg.poss=from e I'm from.'	. Daniel says:	(vf EP.2021/06/12)

(56) Temporal distance:

Context: Late at night, I come in from outside and say to you:					
hehew	čimčimmot	tin	nanat.		
hihiw	čəm~čəm-mut	tin	nanat		
really	cold~char-int	PROX.DEM	night		
'It's really cold tonight.' (lit.: 'This night is really cold.') (sf FL.2021/02/08)					

6 Evidentiality

Unlike English demonstratives, the demonstratives in ?ay?ajuθəm also mark **evidentiality**. In other words, they encode what kind of evidence the speaker has for the existence of the referent. While such demonstratives are fairly rare cross-linguistically (though see Rose 2017 for Mojeño), their existence in ?ay?ajuθəm is hardly surprising since the determiner system of the language has also been found to be evidential (Huijsmans et al. 2020; Reisinger et al. in press).

As we will show, each of the demonstrative forms falls into one of three categories — though the complexity of the evidential system is not even for the GDEMs and the SDEMs, as illustrated by Table 13. While our data point to a two-way evidential distinction for the G-DEMs (i.e., current direct evidence \leftrightarrow evidence-neutral), the SDEMs encode a three-way distinction (i.e., current direct evidence \leftrightarrow previous direct evidence \leftrightarrow evidence-neutral).

Table 13: Evidentiality in the demonstrative system of ?ay?ajuθəm

	GDEMs	SDEMs
Current direct evidence	t ε?ε, t ita, t a?a, θε?ε, θiθa	tin, tan, θin, łan
Previous direct evidence	_	šiń, leń
Evidence-neutral	k ^w iši, k ^w ik ^w a, k ^w a?a	k ^w šin, k ^w łɛń, k ^w ań

In practice, the evidence-neutral forms are dispreferred whenever the speaker has sufficient evidence to use a more specified form in the paradigm. Within the GDEM paradigm, for instance, CDE demonstratives will be preferred over their evidence-neutral counterparts whenever the context supports the use of the former, even though the evidence-neutral forms should also be compatible with the context. We believe this is a case of pragmatic competition — since the CDE forms are more informative, they should be chosen whenever the context supports their use (e.g., Grice 1975; Heim 1991; Bochnak 2016). The same observation holds for the SDEMs. We discuss this further in Section 8.6.

6.1 The current direct evidence demonstratives

The *t*- and θ -initial forms mark **current direct evidence** (CDE): these demonstratives indicate that the speaker has direct evidence for the referent at the utterance time. Usually, this evidence is visual, that is, the speaker can see the referent at the time of speaking. The form *lan* is exceptional in being the only *l*-initial demonstrative to encode CDE — probably a result of a partial collapse of the paradigm (cf. footnote 11). The following examples illustrate the use of these forms. The PDE and evidence-neutral forms are not felicitous in these contexts.

(57) Current direct evidence uses:

be.there

'There it is.'

a. Context: A and B are seated at the kitchen table. A asks B for the salt, which is in front of B. B says:

niš	{ tɛʔɛ / #kʷıši}.
niš	{ti?i / #kʷəši}
be.here	$\{cde.dem / dem\}$
'Here it is.'	

{CDE.DEM / DEM}

(sf | EP.2021/03/14)

(sf | EP.2021/03/14)

b. Context: A and B are seated at the kitchen table. A has forgotten where she left her purse. A says, thinking out loud, "I wonder where I left my purse." B replies pointing to a purse on the kitchen counter:
nε? {tita / #kwikwa}.
ni? {təŷta / #kwəŷkwa}

 c. Context: My boat is beached on a point in the distance (on the near side of the point). We can't really make out my boat from here, but we can see the beach where it is. I tell you: ne? {ta?a / #kwa?a} se?eqw šet^θ nuxweł. ni? (ta?a / #kwa?a) se?eqw šet^θ nuxweł.

ni?	{ta?a / #kwa?a}	si?iq ^w	šə=t [⊕] nəx [∞] ił	
be.there	$\{cde.dem / dem\}$	point	det=1sg.poss=boat	
'My boat	t is beached over or	n that poin	nt.'	(sf EP.2021/07/16)

d. Context: My brother and I are looking through an old picture album that my parents have. I have it in my lap. There's a picture of a guy I kind of recognize but can't quite place.

A:	, togútačx ^w		te?e?	B:	x ^w a?.	A:	q ^w ayın	heł
	, tug-út=a=čx™		ti?i		xwa?		q ^w ayin	hił
	recognize-ctr\stat=q				NEG		maybe	COP
	{ tiň / #šin}	?əms jɛi	Ĵε.					
	{tin / #šin}	?əms=ja	.?ja					
	{CDE.DEM / PDE.DEM}	1pl.poss	=relative					

A: 'Do you recognize this guy?' B: 'No.' A: 'I think he's our relative.'

(sf | EP.2021/07/10)

e. Context: We're hiking and looking out for a good place to picnic. I spot a sunny clearing through the trees. I point in that direction and say:

hesəm { tan	/ #šin / #k ^w šin / #k ^w an}	?a?j́iyuk™	?əms θo	k ^w anačım.
hił=səm {tan	/ šin / #kʷšin / #kʷan }	?a?jĭyuk™	?əms=θu	k ^w anač-əm
cop=fut {cde		1} clearing	1pl.poss=go) sit-мd
'It's clear over	there. That's where we will sit.	,	(sf EI	P.2021/07/02)

f. Context: My brother and I are looking through an old picture album that my parents have. I have it in my lap. There's a picture of a woman I kind of recognize but can't quite place.

A: togútačx ^w	θε?ε ?	B:	x ^w a?	A:	q ^w ayın	hεł
tug-út=a=čx ^w	θi?i		xwa?		q ^w ayin	hił
recognize-ctr\stat=q=2sb.sbj	CDE.DEM		NEG		maybe	COP
{ θiň / #łɛň}	?əms jɛ?jɛ.					
{0in / #łin}	?əms=ja?ja					
{CDE.DEM / PDE.DEM}	1PL.POSS=re	lativ	e			
A: 'Do you recognize this woman?' H	B: 'No.' A: 'I	thin	k she's o	our rela	tive.'	
				(sf]	EP.2021/	06/05)
Context: Pointing at a picture of a voi	ung girl on th	e wa	11			

g.	Context: Po	inting at a j	picture of	a youn	g girl on the wall.
	gɛt ga	θiθa ?	hiya	Gail	{ łań / #łɛň / #kʷłɛň}?
	gat=ga	θəỷθa	hił+a	Gail	{łań / #łiń / #kʷłiń}
	who=dprt	CDE.DEM	сор=о	Gail	{cde.dem / pde.dem / dem}
	'Who is this	s? Is it Gail	?'		(sf EP.2021/06/05)

6.2 The previous direct evidence demonstratives

In the SDEM paradigm, we also find two demonstratives — $\check{s}i\dot{n}$ and $i\epsilon\dot{n}$ — that encode **previous direct evidence** (PDE). These forms encode that the speaker had direct evidence for the referent at a time prior to the utterance time, but crucially can no longer see the referent at the time of speaking. In (58), for instance, the speaker could use the CDE form when the referent ("someone") is still visible, but they would have to switch to the PDE form once the referent is out of view. After this point, it is not felicitous to use a CDE form, and it is likewise dispreferred to use an evidence-neutral form since the speaker does have PDE.

(58) Previous direct evidence uses:

a. Context: Someone shows up at the lodge that I don't know but everyone else does. After he gets in his car and leaves, I take advantage of a break in the conversation to ask: get ga {šin / #tin / #kwan / #kwšin}? gat=ga {šin / #tin / #kwan / #kwšin} who=DPRT {PDE.DEM / CDE.DEM / DISC.DEM / DEM} 'Who was that?' Comment for tin: "If he's still standing out the door, you can see him." Comment for kwan: "Someone is talking about some individual, you have no idea who it is." (sf | EP.2021/02/26) b. Context: Someone shows up at the lodge that I don't know but everyone else does. After she gets in her car and leaves, I take advantage of a break in the conversation to ask:

get ga {**leň** / #kwłeň}? gat=ga {łiň / #kwłiň } who=DPRT {PDE.DEM / DEM} 'Who was that?'

(sf | EP.2021/03/19)

c. Someone drops by that you don't know and chats with me for a minute before taking off again. I see you looking puzzled, so I tell you: ?ət^θ qεχ {Iεn / #lan }. ?ət^θ=qix {lin / #lan }. Isc.Poss=younger.sibling {PDE.DEM / CDE.DEM} 'That was my sister.' (vf/sf | EP.2021/05/29)

The PDE forms can be suffixed with the past tense suffix -ol in order to refer to a deceased individual that was known to the speaker (59).²⁴

- (59) Previous direct evidence uses:
 - a. Context: My mom mentions an old family friend who passed on when I was young...
 A: yεχάταčx^w ł Malehoł?
 - YA: yexate a second sec

B:	?ε,	yεχátč.	hɛł	łeńoł	? ə θο	
	?i?	yax₋át=č	hił	łin-?uł	?ə=θu	
	yes	remember-ctr\stat=1sg.sbj	COP	PDE.DEM-PST	clf=go	
		qaqmɛtanoł		λaλaławum		?ə ta?at.
		qə~qm-mi-t-an-?uł		λa∼λaławun	n	?ə=ta?at
		prog~accompany-rel-ctr-1sg.	ERG-PS	г prog~gathe	r.berries	OBL=HAB
	'Yes	, I remember her. She's the one	that w	vould take me g	gathering	berries.'
					(sf EP.	.2021/07/30)

6.3 The evidence-neutral demonstratives

Finally, all the k^{w} -initial forms are **evidence neutral**, i.e., these demonstratives do not encode evidentiality at all. In the GDEM paradigm, this category encompasses the forms $k^{w}t\check{s}i$, $k^{w}ik^{w}a$, and $k^{w}a^{2}a$. Since evidentiality is not marked for these forms, they can be used fairly flexibly. In (60), for instance, they occur in a context where the speaker has PDE for the referent, while in (61), they

²⁴ Proper names are not usually preceded by a determiner in ay?ajuθəm (see Huijsmans et al. 2020, fn. 2), but this example shows that when speaking of deceased individuals, a determiner is used preceding the name and the past tense suffix also appears on the name.

are used in contexts where the speaker relies on hearsay. Crucially, in all of these cases, the use of the CDE demonstratives is infelicitous.^{25,26}

- (60) Evidence-neutral GDEMs in PDE contexts:
 - a. Context: As we're leaving the house, I ask Gloria whether she's got the keys. She lifts her handbag and says:
 niš {k*vši / #tɛ?ɛ}.
 niš {k*vši / #tɛ?ɛ}
 be.here {DEM / CDE.DEM}
 'They're here.'
 Consultant: ''tɛ?ɛ would be good if she's holding it in her hand.''
 (sf | EP.2021/03/14)

b. Context: My sister-in-law is looking for my niece who is playing hide-and-seek. I'm working in the garden in my front yard and saw my niece go behind the house to hide, so I point towards the back of the house and tell my sister-in-law:

nɛ? {kwikwa / #tita}. ni? {kwəỳkwa / #tita} be.there {DEM / CDE.DEM} 'She's over there.'

(sf | EP.2021/03/14)

c. Context: My boat is beached around a point in the distance. I wave in that direction and tell you:

ne?	{ k^wa?a / #ta?a}	θohεq ^w	šu ^θ nux ^w εł.
ni?	{kwa?a / #ta?a}	θu-h-iq ^w	šə=t [⊕] =nəx ^w ił
be.there	{dem / #cde.dem}	GO-EPEN-point	DET=1SG.POSS=boat
'My boat	is on the other side of	f that point.'	(sf EP.2021/07/16)

²⁵ Considering this, one might be tempted to simply call these forms *non-CDE demonstratives* instead of *evidence-neutral demonstratives*. After all, this label would even better describe their distribution. We're not going down this route, primarily because the consonant k^{w} - has been associated with evidence-neutral forms in other corners of the language, such as the determiner system and the clausal demonstrative system (cf. Huijsmans & Reisinger [in press (b)], Reisinger et al. [in press]). By calling these demonstratives *evidence neutral*, we can keep a uniform analysis for the k^{w} - element throughout the language.

²⁶ As noted in Section 4, the GDEMs require gesture. For these evidence-neutral forms, the gesture obviously does not pick out the actual referent, but the area it would be located in. Here, Bühler (1934)'s distinction between the **demonstratum** (\approx what is pointed at) and the **referent** (\approx what is actually meant) becomes relevant.

- (61) Evidence-neutral GDEMs in hearsay contexts:
 - Context: I was always told there was a lake way back in the woods behind my place. a. I've never hiked back there to see. One day, we're talking about the area, and I point towards the woods behind my place and tell you: ne? kwa $k^w \theta \epsilon \theta a \gamma \epsilon l$?ə k^wik^wa, ne?etəm. $k^w = \theta < i\theta > a\dot{v}a$ ni?=kwa ?ə=k™əyk™a ni?-it-əm DET=lake<DIM> OBL=DEM be.there=RPT say-ctr-pass 'It's said there's a little lake over there.' (vf | EP.2021/02/06)
 - b. Context: Daniel and I are on a hiking trail. When I did the hike before, another hiker told me that there is a river a little ways off the trail. I've never explored it though. When we get to that point, I point towards where the river is supposed to be and tell Daniel: ne? kwa k^w q^waq^wtem ?ə kwa?a. ni?=kwa $k^w = \dot{q}^w a < \dot{q}^w > t < i > m$?ə=kwa?a DET=river<DIM>

OBL=DEM

(vf | EP.2021/02/06)

The SDEM paradigm also encompasses some evidence-neutral forms. These are in particular the forms that we identified as special cases in Section 4.5, namely $k^{w} \delta i n$ and $k^{w} \ell \epsilon n$. We treat these demonstratives as evidence neutral as they can be used (i) when the speaker has only indirect evidence for the referent, as in (62),²⁷ and (ii) when the speaker relies on hearsay evidence, as in (63). The form k^{wsin} can also be used (iii) when the speaker has absolutely no evidence at all for the referent, as in the indefinite case given in (64a) and under negation (64b), as noted previously in Section 4.5.

(62) Evidence-neutral SDEMs in inferential contexts:

'I heard there's a little river over there.'

be.there=RPT

Context: I hear a male voice outside at night. I say to Daniel: čivítč ?ək^w ?asqič. get če k^w tumıš čiy-it=č k^w=tumiš ?ə=kw=?asqič gat=ča hear-ctr=1sg.sbj Det=man OBL=DET=OUTSIDE who=INFER {**k**wšin / #kwan / #tan / #šin }? $\{k^{w} \check{s} i \check{n} / \# k^{w} a \check{n} / \# t a \check{n} / \# \check{s} i \check{n}\}$ {DEM / DEM / CDE.DEM / PDE.DEM } 'I hear someone outside. Who could that be?' (sf | EP.2021/02/26)

 $^{^{27}}$ It should be noted that the notion of direct evidence seems to follow some very strict rules in $ayaju\theta$ am. For instance, hearing a male voice, as in (62), does not count as direct evidence for the referent (i.e., the man outside the window). Rather, it would only count as direct evidence for the sensory stimuli that is directly perceived (i.e., the male voice). The conceptual jump from 'male voice' to 'the man outside the window' requires inference, and so, the speaker would only have indirect evidence for the actual referent. Cf. Huijsmans et al. (2020) and Reisinger et al. [in press] for the same phenomenon in the determiner system.

- (63) Evidence-neutral SDEMs in hearsay contexts:
 - a. Context: Someone tells you a new lady has been hired at the band office, and she heard it's a relative of Freddie's. You wonder out loud who that would be. get če ga {kwłeń / #łeń}? gat=ča=ga {kwłiń / #łeń}?
 gat=ča=ga {kwłiń / #łiň} who=INFER=DPRT {DEM / PDE.DEM}
 'I wonder who that is?' (sf | EP.2021/07/02)
 - b. Context: Someone mentions a name of a woman you don't know and are not familiar with, but whose name you heard in the context of the election of a neighboring nation. You inform that person:
 hɛł kwa kwłeń (?ə) kwa šu?otəm.
 hił=kwa kwłiń ?ə=kwa šu?-ut-əm
 cop=RPT DEM CLF=CLDEM choose-CTR-PASS

(vf | EP.2021/07/09)

(64) Evidence-neutral SDEMs in non-referential contexts:

'She's the one that was elected.'

- a. Context: My child is careening around the field on his new bike. So far no one has been around, but I'm worried that, if someone comes, he could hurt them.
 hehewč Åašiganmet. jɛqa? ?ełagoxwəs {kwšin / #šin / #kwan}.
 hihiw Åašigan-mi-t jaqa? ?iłag-əxw-as {kwšin / #šin / #kwan}
 really worry-REL-CTR EX get.hurt-NCTR-3ERG {DEM / PDE.DEM / DISC.DEM}
 'I'm really worried about it. He might hurt someone.' (sf | EP.2021/07/02)
- b. Context: Daniel and I thought we'd heard someone talking outside but when we went to see there was no one there. When we come in, we tell Gloria.
 x^wuk^wt k^wšin, q^wayın hɛł k^w pu?əm ?ə čiyıtət.
 x^wuk^wt k^wšin q^wayin hił k^w=pu?əm ?ə=čiy-it-at not.exist DEM maybe cop DET=wind CLF=hear-CTR-1PL.ERG
 'There's no one there. Maybe it was the wind that we heard.' (sf | EP.2021/07/30)

As noted previously in Section 4.5, $k^{w}t\epsilon n$ does not seem to have parallel non-referential uses. It cannot be used scoping under negation (65a) or when the speaker is only guessing about the existence of a female referent (65b).

(65) Unavailability of $k^{wl}\epsilon n$ in non-referential contexts:

a. Context: A maternity nurse is assigned a new patient at the hospital. She goes to check on her for the first time and doesn't find anyone in the room. She goes back to the other nurses and says:

i.	#x ^w uk ^w t	kwłeń.	ii.	# x ^w ač	, k ^w unux ^w ən	k ^w łɛ'n.
	xʷukʷt	kʷłiń		x ^w a?=č	k॑ʷən-əxʷ-an	kʷłiń
	not.exist	DEM		neg=1sg.sbj	see-nctr-1sg.erg	DEM
	'No one	was there.'		'I didn't see	anyone.'	
					(sf EP.202	21/07/30)

b. *Context: I come to the lodge and see someone's purse and weaving project on the table.*

		{# kʷłɛň / kʷšin³}.	
niš-uł=ča	x ^w u~x ^w upi?ič	{#kʷłin / kʷšin }	
be.here-pst=infer	PROG~weave	{ dem / dem }	
'Someone must ha	ve been weaving	g here.'	(sf EP.2021/07/10)

In addition to $k^{w} \delta i n$ and $k^{w} \delta e n$, the discourse demonstrative $k^{w} a n$, which we discussed in Section 4.6, also falls into the category of evidence-neutral forms. To revisit what we said earlier, this demonstrative does not refer to some referent in the external world, but to a linguistic segment, like a word, phrase, sentence, etc. Since it can not only anaphorically refer to prior discourse segments (66a), but also cataphorically to upcoming and not yet realized discourse segments (66b), we treat it as evidence neutral as well.

(66) Evidence-neutral uses of the discourse demonstrative $k^{w}a\dot{n}$:

a.	Context: Do	niel mentions that Gloria found someone to give	a talk at a linguistics
	gathering, b	put not who it is. I stop him and ask:	
	get ga	{ k^wan / #k ^w šin}?	
	gat=ga	{k ^w an / #k ^w šin}	
	who=dprt	{DISC.DEM / DEM}	
	'Who is tha	?'	(sf EP.2021/03/27)

 b. Context: Introducing the topic of an upcoming narrative... na?s k^wυθ hehew mənmən?əm k^wan. na?-s k^wə=θ=hihiw mənmən?əm k^wan possess-3Poss DET=2sG.Poss=first have.babies DISC.SDEM 'This is about when you first have a baby.' (Watanabe 2021:96)

7 Gender and number

Some of the demonstratives in ?ay?ajuθəm further encode the gender and the number of the referent. More specifically, speakers distinguish between *feminine singular* demonstratives and *gender- and number-neutral* demonstratives — a distinction that has also been observed in the determiner system of the language (cf. Huijsmans et al. 2020; Reisinger et al. in press), as well as in the determiner and demonstrative systems of other Coast Salish languages (cf. Gillon 2006 for Squamish, Montler 2007 for Klallam, Beaumont 2011 for Sechelt, Gerdts 2013 for Halkomelem).²⁸

²⁸ The use of the term *gender-neutral* in the Coast Salish literature goes at least as far back as Gillon (2006)'s work on the Squamish determiner system. Montler (2007) further notes for Klallam that the term *gender-neutral* should not be understood as *non-feminine*. Gerdts (2013), on the other hand, uses the terms *masculine* and *feminine* to describe the gender distinction in Halkomelem, though these labels seem problematic.

Table 15: The gender and number distinction

	GDEMs	SDEMs
Gender- & number-neutral	tɛʔɛ, tita, taʔa, kʷıši, kʷikʷa, kʷaʔa	tin, tan, šin, k ^w šin, k ^w an
Feminine singular	$\boldsymbol{ heta}$ ε?ε, $\boldsymbol{ heta}$ і $\boldsymbol{ heta}$	θiń, łań, łεń, (kʷłɛń) ²⁹

Just like in the determiner system, the gender information of the demonstratives is encoded by the consonants. All the *t*-, k^{w} -, and *š*-initial forms are gender- and number-neutral and can be used with all kinds of referents. They can occur with sexless referents, i.e., referents that lack a natural gender (e.g., 'island' in 67), as well as biologically male referents (e.g., 'man' in 68). They can even occur, at least to some extent, with biologically female referents. While the use of *tita* for singular female referents (e.g., 'woman' in 69) is only marginally acceptable, it is the only acceptable option for plural female referents (e.g., 'women' in 70). This suggests that the label 'gender-neutral' is more appropriate to describe these demonstratives than the label 'non-feminine'.³⁰

(67) Use of a gender-neutral demonstrative for a sexless referent:

Context: Standing at the beach and pointing at an island:					
ta?atačx ^w	ne?oł	?ə tita	kʷʊθays?		
ta?at-a=čx ^w	ni?-uł	?ə=təy≀ta	kʷəθays		
hab-q=2sg.sbj	be.there-pst	OBL=DEM	island		
'Did you stay o	on that island?'			(vf EP.2020/10/30)	

(68) Use of a gender-neutral demonstrative for a male referent:

Context: Someone asks if you	recogi	nize anyone at a gathering. Idea	ntifying someone a
short distance away, you say:			
togutč	tita	tumiš.	
ťug-út=č	təyta	tumiš	
recognize-ctr\stat=1sg.sbj	DEM	man	
'I recognize that man.'			(sf BW.2020/10/20)

(69) Use of a gender-neutral demonstrative for a single female referent:

Context: Pointing to someone across the room.

hɛł	{ [?] tita / θiθa}	?ət ^θ sałtu.
hił	{ [?] təyta / θəyθa}	?ət ^θ =sałtəw
COP	{dem / f.sg.dem}	1sg.poss=wife
'That	is my wife.'	

(sf | EP/2021/05/29)

²⁹ As first noted in footnote 12, it still remains to be tested whether the number restriction also holds for $k^{w}l\epsilon n$. For now, we assume it patterns like all the other feminine forms.

 $^{^{30}}$ The examples in (67) to (70) all involve *tita*, which we picked purely for illustrative purposes. The other gender- and number-neutral demonstratives exhibit exactly the same distribution.

(70) Use of a gender-neutral demonstrative for plural female referents:

Context: I see a	little group of wor	nen standing together and am wondering who they are.	
gigɛt ga	{ tita / #θiθa}	nəgəptey?	
gi~gat=ga	{təÿ́ta / #θəÿ́θa}	nəgəptəy	
pl~who=dprt	{dem / f.sg.dem}	women	
'Who are those	women?'	(sf EP.2021/07/0	12)

The θ - and *l*-initial forms, on the other hand, are used to introduce biologically female referents, but only if they are singular (e.g., 'woman', 'doe', etc.), as illustrated in (71) and (72).³¹

- (71) Use of the feminine demonstratives with singular female referents:
 - a. Context: My brother and I are looking through an old picture album that my parents have. I have it in my lap. There's a picture of a woman I kind of recognize but can't quite place.

Ā:	togutačx ^w		θε?ε ?	B:	xwa?.	A:	q ^w ayın	hɛł
	, tug-ut=a=čx [™]		θi?i		x ^w a?		q ^w ayin	hił
	recognize-ctr=q=	=2sb.sbj	F.SG.DEM		NEG		maybe	СОР
	θin	?əms j	ε?jε.					
	θin	?əms=	ja?ja					
	F.SG.DEM	1pl.po	ss=relative					
A: ']	Do you recognize th	is woma	n?' B: 'No	.' A:	'I think s	he's our	relative.'	

(sf | EP.2021/06/05)

b. *Context: Talking about someone at the other side of the room at a gathering.*

A:	, togutačx ^w		0i0a ?	B:	xwa?	A:	q ^w ayın	hɛł
	, tug-ut=a=čx ^w		θəỷθa		xwa?		q ^w ayin	hił
	recognize-ctr=q=	2s.sbj	F.SG.DEM		NEG		maybe	COP
	łań	tuwa	q ^w oχomιš.					
	łań	tuwa	q ^w ux ^w umiš					
	F.SG.DEM	from	S <u>k</u> w <u>x</u> wú7m	esh				
A: 'I	Do you recognize th	at ladyʻ	?' B: 'No.' A	: 'I t	hink she'	's from S	quamish.	,
						(0107/1

(sf | EP.202107/16)

³¹ The existence of θ -initial demonstratives highlights a peculiar gap in the determiner system of the language. While most of the closely related Coast Salish languages have both one θ -/ts-initial and one *l*-initial feminine determiner (cf. Gillon 2006:15 for Squamish: *tsi* vs. *lha*; Montler 2007:411 for Klallam: *tsə* vs. *lə*; Beaumont 2011:466: *tse* vs. *lhe*; Gerdts 2013:418 for Halkomelem: $\theta \to vs. l \to 0$, ?ay?aju $\theta \to mas$ no θ -initial determiner, but two *l*-initial determiners. We speculate that there was θ -initial feminine CDE determiner * $\theta \to a$ at some point, which subsequently must have fallen out of use. To fill the resulting gap in the system, the *l*-initial feminine determiner then must have split into two separate forms, the feminine CDE determiner l_{θ} and the feminine PDE determiner *l*, giving rise to the determiner system we see today.

	с.	Context: Someone drops by that you don't know and chats with me for a minute beforetaking off again. I see you looking puzzled, so I tell you:?ət ^θ qɛχ?ət ^θ =qixlinIsg.poss=younger.sibling'That was my sister.'(vf EP.2021/05/29)
		That was my sister. $(v_1 \text{EF}.2021/03/29)$
	d.	Context: I notice a pregnant deer in my backyard.hɛhɛwpəpɛgənθiθaqaqaθegən.hihiwpəpiganθəỷθaqaqaθiganreallypregnantF.SG.DEMdoe'That doe is really pregnant.'
(72)	Unav	ailability of the feminine demonstratives with plural female referents:
	a.	Context: I'm asking my brother about a picture of two women in my parents' picture album. totgutačx ^w {#θε?ε / tε?ε}? tu <t>g-ut=a=čx^w {#θi?i / ti?i} recognize<pl>-ctr=q=2Sg.SBJ {F.Sg.DEM / DEM}</pl></t>
		'Do you recognize these women?' (sf EP.2021/0619)
	b.	Context: I see a group of women standing together and am wondering who they aregiget ga{#0i0a / tita}nəgəptey?gi~gat=ga{#0əÿda / təÿta}nəgəptəyPL~who=DPRT{F.SG.DEM / DEM}women
		'Who are those women?' $(sf EP.2021/07/02)$
	c.	Context: I find a picture of a couple of ladies in my parents' photo album. I ask my brother:
		totgútačx ^w te?e nəgəptey? q ^w ayın hey?ew
		tu <t>g-út=a=čx^w ti?i nəgəptəy q^wayin hil-iw</t>
		recognize <pl>-CTR=Q=2SG.SBJ DEM WOMEN maybe COP-PL {#0in̂ / tin̂} ?əms jɛ?ajɛ. {#0in̂ / tin̂} ?əms=ja?ajɛ {F.SG.DEM / DEM} 1PL.POSS=relatives</pl>
		'Do you recognize these women? I think these are our relatives.'
		Consultant: "You don't use θ in for a group, it's for one person."
		$(af \mid ED 2021/07/02)$

(sf | EP.2021/07/02)

d.	Context: I find a picture wall. I ask my brother:	of a c	ouple o	f ladies in a	collage o	of pictures on my parents'
	, totgutačx ^w		tita	nəgəptey?	q ^w ayın	hey?ew
	, tu <t>g-ut=a=čx^w</t>		tita	nəgəptəy	q ^w ayin	hił-iw
	recognize <pl>-ctr=q=2</pl>	SG.SBJ	DEM	women	maybe	COP-PL
	{# łań / tan}	?əms	s je?aje.			
	{#łań / tan}	?əms	≔ja?aj≀	e		
	$\{F.SG.DEM / DEM\}$	1pl.b	oss=re	latives		
	'Do you recognize those	wome	en? I th	ink those are	our rela	tives.'
						$(af \mid ED 2021/07/02)$

(sf | EP.2021/07/02)

e. Context: When we arrived at the gym, there were a couple of ladies standing outside the door. I know we were expecting some ladies from Squamish. I wait till we are inside and then ask you:

, totgutačx ^w		še nəgəpt	ey nε?	k ^w ?asq?	
iu <t>g-ut=a=</t>	ĕx ^w	šə=nəgəp	təy ni?	kw=?asq	
		SG.SBJ DET=WOM	en be.there	DET=outside	
1 2	•	{# lɛnํ / šinํ}	k ^w tuwa	Squamish.	
q ^w ayin	hił-iw	{# l in / šin }	k ^w =tuwa	Squamish	
maybe	COP-PL	{F.SG.DEM / DEM	} DET=from	Squamish	
'Did you reco	ognize thos	e ladies? I think th	ney are from S	quamish.'	
					200

(sf | EP.2021/07/02)

Considering these data, we propose that the feminine demonstratives also encode number. The rest of the paradigm, however, is number-neutral and can consequently be used with both singular and plural referents (cf., e.g., 67, 68, and 70).

One striking peculiarity of the feminine demonstratives is that they can — under special circumstances — also be used for sexless referents, namely if these are small (e.g., 'a small basket', 'a small dress'). This is exemplified in (73). Links between female gender and diminutives occur in numerous other languages, leading Jurafsky (1996) to propose that there is a cross-linguistically common conceptual metaphor linking SMALL THINGS with WOMEN.

(73) Use of the feminine demonstratives with small sexless referents:

a.	Context: I'm h ?ɛ?ajitɛnmot ?i?ajitin-mut cute-INT 'This little basi	θε?ε θi?i F.Sg.dem	cute basket and say pıpču. p <ip>ču basket<dim></dim></ip>	r:	(sf EP.2020/11/06)
b.	Context: There	e's a little child	's dress hanging in	a closet.	
	hehew ?a	ajumıšmot	ӨіӨа	ģeģsnay.	
	hihiw ?a	aj-umiš-mut	θəỷθa	ἀ <iq̇>snay</iq̇>	

rajamot	0104	qequinaj.	
?aj-umiš-mut	θəyda	ḋ <iq̇>snay</iq̇>	
good-appearance-INT	F.SG.DEM	dress <dim></dim>	
lress is really pretty.'			(sf EP.2020/11/06)
	?aj̆-umiš-mut good-appearance-імт	?aj̆-umiš-mut θәу̀θа good-appearance-імт F.Sg.DEM	Paj-umiš-mutθəỳθaq <iq>snaygood-appearance-INTF.SG.DEMdress<dim></dim></iq>

In contrast, the feminine demonstratives in ?ay?ajuθəm cannot be used for regularly-size sexless referents, as illustrated by the contrast between (74a) and (74b), nor for small male referents, as in (74c).

- (74) Unavailability of feminine demonstratives for regularly sized referents:
 - Context: We're preparing a gathering and we have a cute little table set for the a. children. I ask you where to put a plate of cookies, and you point to that little table... For $\theta \in \mathfrak{e} : \ldots$ which you happen to be standing right beside and tell me to put it there. For $\theta i \theta a$: ... a short distance away and tell me to put it there. hesxw $\{\theta \epsilon \mathbf{\hat{e}} \epsilon / \theta i \theta a\}$ $2 \theta k^{w} a t$. hił-sx^w $\{\theta i i i / \theta \Rightarrow y \theta a\}$ $2 = \theta = k^{w}a^{2} + t$ {F.SG.DEM / F.SG.DEM} OBL=2SG.POSS=put-CTR COP-CAUS 'Put it here/there.' (sf | EP.2021/06/19)
 - Context: We're preparing a gathering and we have several fairly large tables set up. b. I ask you where to put a plate of cookies, and you point to one of the tables ... For $\theta \in \frac{2}{2}$..., which you happen to be standing right beside and tell me to put it there. For $\theta i \theta a/tita/ta?a: \dots a$ short distance away and tell me to put it there. $\{\#\theta\epsilon \epsilon / t\epsilon \epsilon / \#\theta i \theta a / tita / ta \epsilon \}$ $2 \theta k^{w} a t$. hesxw hił-sx^w $\{\#\theta i ? i / ti ? i / \#\theta \Rightarrow y \theta a / t \Rightarrow y t a / t a ? a \}$ $2 = \theta = k^{w}a^{2}$ -t COP-CAUS {F.SG.DEM / DEM / F.SG.DEM / DEM / DEM } OBL=2SG.POSS=put-CTR 'Put it here/there.' (sf | EP.2021/06/19) Context: Holding at a picture of a small boy, I ask: c.
 - c. Context: Holding at a picture of a small boy, I ask. get ga $\{\#\theta \epsilon 2\epsilon / t \epsilon 2\epsilon\}$ čuý? gat=ga $\{\#\theta i 2i / t i 2i\}$ čuý who=DPRT $\{\#F.SG.DEM / DEM\}$ child 'Who is that child?' Consultant: "[You don't use $\theta \epsilon 2\epsilon$] unless it's a girl." (sf | EP.2021/07/24)

This parallels the behaviour of the feminine determiners in ?ay?ajuθəm which can likewise be used for small referents (cf. Huijsmans and Reisinger [in press (a)]). The use of feminine determiners and demonstratives to describe small things is also found in other Salish languages, such as Halkomelem (Suttles 2004:341; Gerdts 2013:423).

8 Towards an analysis

As highlighted by the previous sections, the demonstratives in $2ay^2aju\theta$ am encode much more information than the English demonstratives. In this section, we will attempt to formalize all of the semantic components that give rise to this intricate demonstrative system. First, we will show how the contribution of gesture and joint attention can be incorporated into the formalism (§8.1), and then use this to motivate the uneven syntactic distribution of the GDEMs that we observed earlier (§8.2). Once this has been done, we will provide an account for the evidential component (§8.3), for the deictic component (§8.4), and finally for all the other remaining categories, such as gender and number (§8.5). A brief section, in which we piece together all these components and give full denotations for each demonstrative concludes this section (§8.6).

8.1 Gesture and joint attention

We propose an analysis where gesture is crucial to the contribution of GDEMs, as it is used to identify the referent of the demonstratives and to draw the addressee's attention towards it. The opposite is true for the SDEMs. These require there to be a salient referent in the context that is uniquely identified by the demonstrative, but do not require co-speech gesture.

For GDEMs, the gesture identifies an individual: the gesture referent. Before we show how gesture can be incorporated into the formalism, it is necessary to first address the nature of the gesture referent. We assume that the gesture referent itself is *always* an entity. It may be clearly bounded and identify an atomic individual, such as a person, tool, or animal (75). However, the gesture referent may also be less clearly delineated, like a point of land (where the boundary between the point and larger land mass is not obvious), a region lying in a certain direction, an area of the kitchen counter, etc. (76). For these uses, the gesture referent doesn't have an intrinsic boundary, but we can still adequately identify it by pointing.

(75) Atomic individuals:

a.	Cont	ext: In	troducing the man beside you.	
	heł	tɛʔɛ	$\operatorname{Pat}^{\theta}$ gaqa θ .	
	hił	ti?i	?ət ^θ =gaqaθ	
	COP	DEM	1sg.poss=husband	
	'Thi	s is my	husband.'	(sf BW/2020/10/20)
	G			

- b. Context: Looking at a display of woven baskets, you give me some background on their functions [pointing to one of the baskets]:
 čε?agaye tita.
 ča?ag-aya təỳta tool-container DEM
 'That one is for storing things.' (vf | EP.2021/04/16)
- c. Context: You see a dog across the road. Pointing to it, you say: heł tita čeňo ?aġaθoł. hił təỳta čaňu ?aġ-aθ-?uł cop DEM dog chase-cTR+1SG.OBJ-PAST 'It's that dog that chased me.' (vf | KG.2018/12/04)
- (76) Non-atomic individuals:

a.			e're getting off the growing up.	e boat on a	n island, and you t	ell me that you used to camp
	hɛł hił COP	te?e ti?i	?əms ta?at ?əms=ta?at 1pl.poss=hab	niš niš be.here	, λəmεsoł. λəmis-?uł dwell-psτ	
			o stay here often.'		uwell-PSI	(sf EP.2021/02/26)

- b. Context: A and B are seated at the kitchen table. A has forgotten where she left her purse. B, pointing to where the purse is located on the kitchen counter, tells A:
 nε? tita pro_i.
 ni? təyta pro_i.
 be.there DEM pro_i
 'It_i is there.' (sf | EP.2021/03/14)
- c. Context: You're pointing me in the general direction of Freddie's house. We can't see his house from here, but we're looking towards the general area.
 nɛ? {ta?a / #tita} šɛ ?ayɛ?s.
 ni? {ta?a / #təŷta} šə=?aya?-s
 be.there {DIST.DEM / NDIST.DEM} DET=house-3Poss
 'His house is over there.' (sf | EP.2021/07/16)

The use of co-speech gestures is necessary in all of these cases. After all, it is the gesture that helps the speaker establish joint attention with the addressee. To incorporate gesture, we adapt the analysis developed by Ebert et al. (2020),³² where the gesture referent is a rigid designator ' $\blacksquare I$ ', and where the entity x denoted by the demonstrative is the unique entity identified by the gesture (see also Roberts 2002 for a similar approach). Since this entity may be atomic or non-atomic, the gesture may vary accordingly (e.g., lifting or pointing to an atomic object vs. waving towards an area; cf. Bangerter 2004). A truncated denotation — not yet including any evidential or deictic components — is given below for the GDEM $t\epsilon \partial \epsilon$ 'this'. We assume a null NP pronoun in the absence of an overt NP.

(77) Denotation for the GDEM $t\epsilon 2\epsilon$:

presupposition: there is a unique entity in the context which is identical to the gesture referent and meets the description of the demonstrative

- a. $[t\epsilon^2\epsilon]$ pointing to x
- b. $\lambda N_{(e,t)} \iota x$. $\Box = x \wedge N(x)$

The SDEMs require a different approach. We adopt a semantics for the SDEMs following Roberts (2002)'s treatment of pronouns in English and Schwarz (2009)'s treatment of anaphoric definites in German. Roberts's analysis of pronouns involves a presupposition with two components: (i) there is a discourse referent *i* familiar and salient in the context, (ii) this discourse referent is the most salient discourse referent satisfying the descriptive content of the pronoun (for gender, person, and number). The pronoun then refers to the individual associated with this index. We adopt this approach to account for the anaphoric nature of the SDEMs, adapting the second part

³² The main difference between our analysis and theirs is that for them the gesture referent is an atomic entity rather than a region of space. Since they are analyzing English and German demonstratives, they are not dealing with a system where the same demonstrative can be used locatively or to refer to an atomic entity, unlike in ?ay?ajuθəm where the GDEMs seem to primarily refer to locations but allow identification of atomic entities with the proximal and near-distal CDE forms $t\epsilon^2\epsilon$ and tita, and their feminine counterparts $\theta\epsilon^2\epsilon$ and $\thetai\theta a$.

of the presupposition so that the discourse referent satisfies the descriptive content of the demonstrative and any following NP.³³ We then need some mechanism to introduce the index into the denotation. For this, we turn to Schwarz's analysis of anaphoric definites in German.

Under Schwarz's analysis, an anaphoric definite will include an index argument, which is syntactically represented but null, essentially a null pronoun. This is shown for *tin* in (78a). The demonstrative itself will have an extra individual argument y equated with the unique individual denoted by the demonstrative (78b). The index saturates this extra argument, as in (78c). The discourse referent represented by this index must belong to the set of discourse referents that are salient in the context *Sal_C* and be assigned by the assignment function to an individual that meets the description of the NP;³⁴ it must furthermore be the most salient discourse referent in the context that is assigned to an individual meeting the description of the NP: for any discourse referent *n* that is also salient in the context and meets the description of the NP, *n* must be less salient than *y* or be *y*. If defined, the demonstrative will refer to the individual that the assignment function assigns to *y*. Once again, we assume a null NP pronoun where there is no overt NP following the demonstrative.

- (78) a. Syntactic representation of SDEMs: [1 [SDEM [NP]]]
 - b. Denotation for the SDEM *tin*: $\llbracket tin^{\circ} \rrbracket^{c,g} = \lambda N. \lambda y. y \in Sal_{c} \land N(g(y)) \land \forall z [z \in Sal_{c} \land N(g(z))]$ $\rightarrow z <_{sal} y \text{ or } z = y]. g(y)$
 - c. Adding the index: $\llbracket 1 \ tin^{n} \rrbracket^{c,g} = \lambda N.1 \in Sal_{\mathcal{C}} \land N(g(1)) \land \forall n \ [n \in Sal_{\mathcal{C}} \land N(g(n)) \\ \rightarrow n <_{sal} 1 \ or \ z = 1 \].g(1)$

³⁴ Formally, the context $C = \langle Sat_C, Dom_C \rangle$:

 $^{^{33}}$ The presupposition that the discourse referent is *familiar* requires closer examination. We have yet to fully explore whether use of the SDEMs places restrictions on hearer knowledge. If it did, this would be counter the claim that presuppositions in Salish do not place restrictions on the Common Ground (Matthewson 2006). Determiners in ?ay?ajuθəm do not presuppose familiarity (Huijsmans et al. 2020, fn. 14; Reisinger, et al. [in press], fn. 12), and we suspect that pronouns also do not, since they are sometimes used cataphorically. It would therefore be somewhat surprising if demonstratives did. It may be that 'familiarity' only tracks the speaker considers in a certain discourse context without tracking what the speaker believes familiar to the hearer. This requires further investigation.

Where $Dom \in N$ (the set of natural numbers) is the Domain of *C*, the set of familiar discourse referents, and,

Where *Sat WxG*, the satisfaction set for C, = {<w,g>: for all i Dom, g(i) is an individual which verifies in w all the information the interlocuters share about i}. (Roberts 2002:18)

As stated, Dom is the set of *familiar* discourse referents. We do not wish to claim at this point that the SDEMs place restrictions on the common ground, so this notion of familiarity should not be assumed to be as in English. See footnote 33.

The set of discourse referents in the context will typically be those previously mentioned, capturing the anaphoric nature of $ti\dot{n}$, and the fact that $ti\dot{n}$ is not dependent on gesture to identify a unique referent. The other SDEMs except for $k^{w} \sin \dot{n}$ behave in parallel.

We can illustrate how this works with a concrete example, such as (79). A discourse referent with an index 1 is established through use of the GDEM tere in the first sentence (80a). The SDEM tin in the second sentence carries this index (80b). The value assigned by the assignment function to the index 1 associated with tin in the second sentence will therefore be the referent established by the GDEM in the first. The presuppositions of the SDEM are met since the discourse referent associated with the index 1 is the most salient discourse referent in the context, being just previously established. As a result, the referent of the demonstrative tin in the second sentence will be equated with the man identified by tere in the first (in turn identified through gesture). For simplicity, we represent the null NPs with the NP pronoun *one*.

(79) Context: My brother and I are looking through an old picture album that my parents have. I have it in my lap. There's a picture of a guy I kind of recognize but can't quite place.

A:	, togutačx ^w		tɛʔɛ 1?	B:	xwa?.	A:	q ^w ayın	heł
	, tug-ut=a=čx™		ti?i		xwa?		q ^w ayin	hił
	recognize-cti	r=q=2sb.sbj	DEM		NEG		maybe	COP
	[1 tin]	?əms jɛ?jɛ.						
	tin	?∍ms=ja?ja						
		1PL.POSS=re						
A: 'D	o you recogniz	ze this guy?'	B: 'No.' A	A: 'I thi	nk he's ou	ır relat	ive.'	

(sf | EP.2021/07/10)

- (80) a. $[t\epsilon 2\epsilon_I NP_{pro}]^{c,g[x/1]} = \iota x \cdot [r = x \land one(x)]$ POINTING TO x
 - b. $[[1 tin' NP_{pro}]]^{c,g} = \lambda N.1 \in Sal_C \land N(g(1)) \land \forall n [n \in Sal_C \land N(g(n)) \\ \rightarrow n <_{sal} 1 \text{ or } n = 1].g(1)$

There are certain uses of the SDEMs where previous mention is not necessary, notably the use of *tin* in temporal expressions such as *tin* $t^{\hat{\theta}}ok^{\hat{w}}$ 'today' (81).

(81)	Context: I d	come in from outsid			
	hehew	čimčimmot			
	hihiw	čəm~čəm-mut	tin	ť ^e ukw	
	really	cold-char-int	DEM	day	
	'It's really of	cold today.'			(vf FL.2021/02/08)

Under Robert's (2002, 2015) approach, these uses can be accommodated since the referents for indexicals like *today* are in the common ground and therefore are associated with a discourse referent even without previous mention.³⁵ Roughly, the contribution of the phrase *tin* $t^{\theta}ok^{w}$ 'this

³⁵ Alternatively, we could assume that the pronominal element in the DP need not be an index but could instead take the form of an indexical in a Kaplan-type system (Kaplan 1977) — that is, a function from context to content — such as: TODAY(c). This element contains a function TODAY, which will return an

day' would be as in (82) where 2 is the index of the day in which the speaker and addressee are located. We presume that the current day generally meets the criteria of being the most salient day by virtue of being the day the speaker and addressee are located within.³⁶

(82) $[2 tin' t'^{\theta} ok'']^{c,g} = 2 \in Sal_{\mathcal{C}} \wedge day(g(2)) \wedge \forall n [n \in Sal_{\mathcal{C}} \wedge day(g(n)) \\ \rightarrow n <_{sal} 2 \text{ or } n = 2] . g(2)$ where 2 is the index associated with the *day* in which the speaker and addressee are located

Obviously more needs to be said about the temporal semantics of such phrases, but this would take us too far afield for the purposes of this paper.

8.2 Gesture and the distribution of the GDEMs

As we showed in Section 3, the GDEMs do not pattern uniformly. While all demonstratives of this paradigm can be used locatively, only some also allow nominal uses. We believe that the mechanics of gesture play a role in this uneven distribution.

If the gesture referent is (relatively) nearby and visible, it is not uncommon for it to be an atomic entity, like a baby basket. In such circumstances then, the proximal and near-distal CDE GDEMs (i.e., $t\epsilon 2\epsilon$, tita, $\theta \epsilon 2\epsilon$, and $\theta i \theta a$) can easily be used nominally. Consider, for instance, the pronoun use of $t\epsilon 2\epsilon$ in (83).

 (83) Context: There's a display of woven baskets. <u>You point to one</u> and give me some background. χa?p tε?ε. χa?p ti?i

baby.basket DEM '**This** is a baby basket.'

This utterance will be true if the unique gesture referent x belongs to the set of entities which are baby baskets (84c).

(viii) Context: Daniel and I get to Gloria's house. She goes to get us something to drink and we're standing around her table where there is a lovely vase of flowers. I remark:

around her lable where there is a lovery vase of flowers. I remark.					
hehew	?ajumıšmot	{tə / #tin / #tɛʔɛ}	q ^w asəm.		
hihiw	?aj-umiš-mut	{tə= / #tin / #ti?i}	q ^w asəm		
really	good-appearance-INT	$\{det = / \#Sdem / \#Gdem\}$	q ^w asəm		
'These flowers are really beautiful.'					

(sf | EP.2021/07/30)

individual when applied to the context parameter c. This individual would then be equated with the individual denoted by the demonstrative. Either of the two systems would be sufficient for our purposes.

³⁶ If nothing more is said, allowing unmentioned individuals to be associated with discourse referents would predict SDEMs to be able to appear when there is only one individual that is salient in the discourse context meeting the description of the NP. However, determiners are preferred over SDEMs in such contexts.

We have also found cases where null pronouns are preferred to SDEMs, namely where reference is made to a previously mentioned individual. We suspect that SDEMs require that there is an element of contrast involved (cf., Grosz 2019), which sets their use apart from determiners and null pronouns. Fully determining the differences in the distribution of the SDEMs vs. determiners and null third person pronouns is a matter for future research, however.

(84) a. $\begin{bmatrix} t \varepsilon 2 \varepsilon N P_{pro} \end{bmatrix}^{c.g} = \iota x . \quad \forall r I = x \land one(x)$ POINTING TO xb. $\begin{bmatrix} \chi a 2 \dot{p} \end{bmatrix} = \lambda y. \text{ baby-basket}(y)$ c. $\begin{bmatrix} \chi a 2 \dot{p} \end{bmatrix} (\begin{bmatrix} t \varepsilon 2 \varepsilon N P_{pro} \end{bmatrix}) = 1 \text{ iff } \iota x . \quad \forall r I = x \land \text{baby-basket}(x)$

As we have seen in Section 3, the proximal and near-distal CDE GDEMs can also act as determiners when followed by an NP, such as $\theta u k^w na \check{c} tan$ 'chair' (85). In this case, the referent of the DP must be equivalent to the gesture referent and meet the description of the NP (86a). The resulting truth conditions for (85) are given in (86c): the utterance will be true only if the unique gesture referent *x*, a chair, is very squeaky.

(85)) Context: Speaking of the chair you're sitting in					
	qeqemot	tɛʔɛ	θuk ^w načtən.			
	qiqimut	ti?i	θək ^w načtən			
	squeaky-INT	DEM	chair			
	'This chair is	really	squeaky.'	(vf EP.2019/06/29)		

- (86) a. $[t\epsilon 2\epsilon]([\theta uk^w načtan]) = \iota x \cdot [I] = x \land chair(x)$ POINTING TO xb. $[q\epsilon q \epsilon mot] = \lambda y. \text{ very-squeaky}(y)$
 - c. $[[qeqerim embed{qerim} embed{qerim}]([[terer]([[\theta ukwnačtən]])) = 1 \text{ iff very-squeaky}(ux . ` = I `= x \land \text{chair}(x))$

However, gestures can also pick out a wider, vaguer region around the speaker. These uses are typically locative, as exemplified in (87), but need not be: in (87), for instance, $t\epsilon 2\epsilon g t \epsilon$ is the absolutive argument of the possessive predicate *na2s* 'be their own'.³⁷ Regardless, for both these cases, the gesture identifies a larger entity without clear boundaries — an area — which is then the referent of the demonstrative.

(87)	Context: A little dog escaped from its owner. I've found it and it's running about around
	me in the field. I vell:

	me in me ji	ieiu. 1 yei		
	niš	pro_i	[_{LOC} ?ə <u>tɛ?ɛ]</u> .	
	niš	pro_i	?ə=ti?i	
	be.here	pro_i	obl=here	
	'It's over h	nere.'		(vf EP.2021/02/19)
(88)	na?s te?e	gιjε.		
	na?-s ti?i	gəja		
	own-3poss	DEM 1	land	
	'This land	is theirs.	,	(sf EP.2021/01/08)
				()

Locative uses, as in (86), are generally introduced by the oblique marker 2∂ , which acts as an all-purpose preposition. A simple denotation for 2∂ is given in (89). The function *L* covers a range of locative relations, including those for which *in*, *at*, and *to* would be used in English.

³⁷ See Davis et al. (2020) for an analysis of the argument structure of these possessive constructions.

(89) $\llbracket 2 \partial \rrbracket = \lambda x \lambda y . L(x)(y)$

The oblique marker combines with a demonstrative to create a one-place predicate. For our purposes, we assume that this one-place predicate can combine with the VP via predicate modification (Heim & Kratzer 1998).

For (87), for example, $t\epsilon 2\epsilon$ picks out an entity — a region proximal to the speaker — via gesture. The oblique marker 2a takes $t\epsilon 2\epsilon$ as its complement to create a one-place locative predicate (90b), which requires its argument to stand in a locative relation with the entity x identified by the demonstrative.

(90) presupposition: there is a unique entity in the context located by the gesture referent



d. $\llbracket (86) \rrbracket = 1$ iff be.here(*pro_i*) $\land L(\iota x \cdot \llbracket u \rrbracket = x)(pro_i)$

As shown in (90c), the oblique phrase (of type $\langle e,t \rangle$) combines with the main predicate (also of type $\langle e,t \rangle$), in this case a locative predicate *niš* 'be here', to create a larger one-place predicate (of type $\langle e,t \rangle$). This combines with the null pronoun *pro*, i.e., the subject of the sentence, and — abstracting away from other components of the proposition, such as tense and aspect — the entire proposition will be true if the individual referred to by *pro* satisfies the description of the main predicate, i.e., it is proximal, and is located at the region designated by $t\epsilon 2\epsilon$ (90d).

Unlike the proximal and near-distal CDE GDEMs, the distal demonstrative ta2a is almost exclusively used locatively, and rarely occurs in nominal contexts (see Section 3). We believe this is tied to the relationship between distance and gesture (cf. Cooperrider 2016). A distant region picked out by a gesture — even a precise gesture like pointing — cannot typically equate a distant atomic entity such as a man or basket, even if the referent is visible in the distance. This is because entities are smaller towards the horizon, while gestures are necessarily centered around the speaker. As a result, gestures necessarily encompass wider areas relative to distal entities, as visualized in Figure 1 illustrates how a pointing gesture can directly identify a visible near distal man,

but not a visible far distal man. The region which the far distal man occupies is instead identified. Since the referent of a GDEM is equated with the gesture referent, the near distal CDE GDEM *tita* can be used to identify the near distal man, but the distal CDE GDEM *ta*?*a* cannot be used to directly identify the far distal man. The distal CDE GDEM *ta*?*a* can be used locatively instead because locations are generally larger and vaguer and therefore do not pose a challenge for equivalence with the gesture referent.



Figure 1: Visualization of the correlation between deictic distance and pointing precision. In the near-distal context, the gesture referent can be fairly easily equated with the man; in the far-distal context, the gesture is not precise enough and will pick out a vague area, in which the man is located.

Obviously, this line of thinking predicts that nominal uses of ta^2a should be okay for very large distal referents, particularly where these do not necessarily have clear boundaries. We have found the results for these cases somewhat variable, but such nominal uses are at least sometimes accepted, as shown in (91):

(91) *Context: From the North Shore, I see a big cloud formation over the city of Vancouver.* <u>*I*</u> *point to it and tell you:*

k ^w ot gi	ta?a	ṫ ^θ amq ^w ł!	hehew	?ajumıš.	
k ^w ə(n)-t=gi	ta?a	t ⁰ amq ^w ł	hihiw	?aj-umiš	
see-ctr=dprt	DIST.DEM	cloud	really	good-appearance	;
'Look at the cloud	ls over there!	They're very	beautiful		(sf EP.2021/0714)

The GDEM *ta?a* also has nominal uses in DPs referring to locations in oblique phrases (see Section 3.3.3).

The evidence-neutral GDEMs (i.e., $k^w i \delta i$, $k^w i \delta v a$, and $k^w a^2 a$) exhibit a similar behavior to $ta^2 a$, occurring exclusively in locative constructions. As noted earlier, these forms are used to identify referents that are not visible. When gesturing towards an entity in another room or within a cupboard, or otherwise hidden from view, the gesture referent cannot precisely identify the entity. It can, however, indicate the area within which an entity is located. The referent of the evidence-neutral GDEMs will therefore also typically be a region, typically standing in some relation to another entity. This relation is once again supplied by the oblique marker. In (92), then, the oblique phrase $2a k^w i k^w a$ is a one-place predicate that puts an entity *y* into a locative relation with the gesture referent *x*, the not-visible region of space indicated by the gesture (93b). We then get the truth conditions in (94) such that the entity referred to by $\delta \varepsilon \theta \varepsilon \theta a y \varepsilon l$ 'the little lake/pond' is in a distal

place and this place is a not-visible region of space identified by the gesture (these truth conditions abstract away from the semantics of the DP $\tilde{s}\varepsilon \theta \varepsilon \theta a \dot{y} \varepsilon l$ for ease of exposition).

(92) Context: As we're walking by a fence, we hear ducks on the other side. I know the area well, so I explain to you:

ne?	?∍ k [™] ik™a	šε θεθaýεł.
ni?	?ə=kʷəÿkʷa	šə=θiθayał
be.there	OBL=DIST.DEM	DET=DIM∼lake
'There's a	a little pond there	e.'

(sf | EP.2021/07/24)

- (93) presupposition: there is a unique entity in the context located by the gesture referent
 - a. $\begin{bmatrix} 2\partial \end{bmatrix} (\llbracket k^{w}ik^{w}a \rrbracket)$ POINTING TO **X** b. $\lambda y. L(\iota x. \lceil r r \rceil = x)(y)$
- (94) $[n\varepsilon 2]([2\sigma]([k^w i k^w a]))([s\varepsilon \theta \varepsilon \theta a y \varepsilon l]) = 1 \text{ iff be.there(the.pond)} \land L(\iota x . [I] = x)$ (the.pond)

8.3 Evidentiality

Our analysis of the evidential components, as discussed in Section 6, is couched in situational semantics. Inspired by Speas (2011) and Kalsang et al. (2013), we propose that the evidential demonstratives — just like the evidential determiners in the language (cf. Huijsmans et al. 2020; Reisinger et al. in press) — encode relations between two situations. The **information situation** (IS / s_I) constitutes the minimal, contextually salient situation in which the speaker accesses evidence for the referent's existence, and the **discourse situation** (DS / s_D) constitutes the salient situation in which the speaker utters p.

Positing these two situations allows us to formalize the evidential distinctions that we need, namely Current Direct Evidence (CDE) and Previous Direct Evidence (PDE). For the CDE demonstratives, the referent *x* has to be part of the IS (= direct evidence), and the DS has to be equal to or part of IS as well (= current evidence), as shown in (95a). The formula for the PDE demonstratives shares the same direct evidence component but differs in that the DS is *not* part of or equal to the IS (= previous evidence), as shown in (95b).

(95) a. $[CDE]^{sD}(x)(s_l) = 1 \text{ iff } [(x < s_l) \land (s_D \le s_l)]$ b. $[PDE]^{sD}(x)(s_l) = 1 \text{ iff } [(x < s_l) \land (s_D \le s_l)]$

Figure 2 attempts to visualize these formulae. The first two panels represent potential CDE contexts as, in both cases, the referent is part of the IS (i.e., $x < s_l$), and the DS is equal to or part of the IS (i.e., $s_D \leq s_l$). This guarantees that the speaker can see the referent at the time of speaking (as indicated by the eye symbol associated with the IS). They contrast with the third panel, where the referent is still part of the IS (i.e., $x < s_l$), but the DS is not equal to or part of the IS (i.e., $s_D \leq s_l$). In other words, the IS and the DS are separate in this scenario. Here then, the speaker saw the referent at a prior occasion, but no longer sees it at the time of speaking, thus giving rise to a PDE context.



Figure 2: Visualization of CDE (panels 1 and 2) and PDE (panel 3).

As discussed in Section 6.3, we also find a handful of evidence-neutral demonstratives in the language. These, we argue, simply lack an evidential component in their denotations.

8.4 Deixis

As noted by Diessel and Coventry (2020), the concept of deictic distance also lends itself for a situational analysis. On the one hand, situations are flexible enough to explain why what counts as proximal may differ from context to context. For instance, consider the phrase *here on my leg*, where the demonstrative only picks out a small area, and compare it to the phrase *here in Canada*, where the demonstrative refers to a much larger area. On the other hand, if we assume that situations come with spatial and temporal coordinates, they also allow us to make a unified account for spatial deixis (e.g., *this chair*) and temporal deixis (*this night*).

Loosely following Diessel and Coventry (2020), we propose that for the proximal demonstratives, the referent x has to be part of the DS, as shown in (96a), and that it has to lie outside of the DS for the distal demonstratives (96b).

(96) a. $[PROX]^{sD}(x) = 1 \text{ iff } (x < s_D)$ b. $[DIST]^{sD}(x) = 1 \text{ iff } (x < s_D)$

For the GDEMs, where we often find a three-way split (e.g., $t\epsilon 2\epsilon$ vs. tita vs. ta2a) this does not suffice, however. Consequently, we introduce a third category, which we label *near-distal*. We propose that demonstratives belong to this category (i.e., tita, $\theta i\theta a$, and $k^w i k^w a$) require the referent to be in a situation *s* immediately adjacent to the discourse situation. We capture this through introducing an additional adjacency relation ∞ between situations (adopting notation from Krifka 1998).³⁸ A formula for this relation is given in (97).

(97)
$$[ADJACENT]^{sD}(x) = 1 \text{ iff } \exists s(s \propto s_D) \land (x < s)$$

An entity referred to with a near-distal form needs to meet *both* the distal and adjacency requirements, meaning that the near-distal forms are more complex versions of the distal forms.

³⁸ See Krifka (1998) for a formal definition of adjacency.

8.5 Other components

Last, to fully account for every single demonstrative, we need to introduce a few more additional components, which fortunately are less complex.

For the demonstratives that are restricted to singular feminine referents (i.e., $\theta \epsilon 2\epsilon$, $\theta i \theta a$, $\theta i n$, lan, lan, len, and $k^{w} len$), we need to introduce both a gender and a number component. These are given in (98) below.

(98)	a.	$\llbracket SING \rrbracket(x)$	=	1 iff $\#x = 1$	[Sauerland et al. 2005:411]
	b.	$\llbracket \text{FEM} \rrbracket(x)$	=	1 iff <i>x</i> is feminine	[Huijsmans & Reisinger in press]

For the discourse demonstrative $k^w a n$, we require a restriction that ensures that the referent can only be part of a discourse, and nothing else (99).

(99) [[DISC]](x) = 1 iff x is a segment of the discourse

8.6 Denotations

Now we can finally begin to formalize the individual demonstrative forms in ?ay?ajuθəm. We will treat the different components that we introduced in the previous sections — such as CDE, PDE, PROX, DIST, FEM, SG, and DISC — as presuppositions.³⁹ The demonstratives vary in the amount of information that they presuppose. For instance, the presupposition for $\theta \varepsilon 2\varepsilon$ comes with four components beyond the requirement that there is a unique gesture referent meeting the description of the NP (CDE, PROX, FEM, SG), $t\varepsilon 2\varepsilon$ with two (CDE, PROX), and $k^w t \delta i$ only with one (PROX). Following Grice (1975), Heim (1991), and Bochnak (2016), we propose that this places the demonstratives in competition: more informative demonstratives — those with greater presuppositional loads — will be preferred to less informative demonstratives wherever the demonstratives below, we will examine how this competition plays out among sets of demonstratives.

The CDE GDEMs are shown in (100) below. These presuppose that there is a unique entity that is equivalent with the gesture referent and meets the description of the NP for which the speaker has CDE. They vary in their deictic presuppositions. Both *tita* and *ta*?*a* presuppose that the entity denoted by the demonstrative is distal, i.e., not part of the discourse situation, but *tita* additionally presupposes that the entity is within a situation adjacent to the discourse situation. Since *tita* is more

³⁹ Though we use the term presupposition, we do not mean that these impose restrictions on the common ground, but rather that these are felicity conditions on the use of the demonstratives which determine whether the demonstrative is defined. Both the evidential and proximity components are clearly speaker-oriented, as can be demonstrated by the fact that they can be used in phone call contexts. In (ix), for instance, the location indicated by te 2e is only visible and proximal to the speaker.

⁽ix) Context: I look out the window and see that it is snowing. I'm talking on the phone to someone in another city. I tell them.

[?]a~?ax^w ti?i.

PROG~SNOW DEM

^{&#}x27;It's snowing here.'

informative than ta^2a , it will be preferred to ta^2a wherever this condition is met. This accounts for cases where *tita* is felicitous and ta^2a is infelicitous, even though both are distal.

(100) Formulas for the CDE GDEMs:

a.	[[<i>t</i> ε?ε]] ^{sD}	=	$\lambda N \lambda s_I: !\exists y. ` \blacksquare I ` = y \land CDE(y)(s_I) \land PROX(y).$ $\iota x [` \blacksquare I ` = x \land CDE_{p^*}(x)s_I \land PROX(x)]$
b.	[[tita]] ^{sD}	=	$\lambda N \lambda s_{I} : !\exists y. ` \blacksquare I ` = y \land CDE(y)(s_{I}) \land DISTAL(y) \land ADJACENT(y). ux [` \blacksquare I ` = x \land CDE_{p}*(x)(s_{I}) \land DISTAL(x) \land ADJACENT(x)]$
c.	[[ta?a]] ^{sD}	=	$\lambda N \lambda s_I : ! \exists y \cdot [-t] = y \wedge CDE(y)(s_I) \wedge DISTAL(y).$

$$ix [` \blacksquare I ` = x \land CDE_{p*}(x)(s_I) \land DISTAL(x)]$$

The situational relationships for the evidential and deictic components of these demonstratives is illustrated in Figure 3. For the proximal form te2e, the referent will be within the discourse situation and the discourse situation will equal the information situation (schematized in the leftmost panel), ensuring that the referent is visible and proximal to the speaker at the time of the utterance. The near distal form *tita* also encodes that the referent is within the IS, but now the IS must be larger than the DS because the referent is outside of the DS – that is, it is distal. The situation in which the referent is located must be immediately adjacent to the DS however, ensuring that the referent is proximal enough to be directly located by gesture (the middle panel). The distal form ta2a still encodes that the referent is part of the IS, but note the IS encompasses a wider area and the referent is far enough away that a gesture can only indicate a general area (the rightmost panel).



Figure 3: Schematic representation for the proximal CDE GDEM $t\epsilon 2\epsilon$ (left), the near distal CDE GDEM *tita* (middle), and the far distal CDE GDEM ta2a (right), where S represents the speaker and R the referent.

The feminine CDE GDEMs are shown in (101) below. These parallel the denotations for the gender-neutral proximal and near-distal CDE GDEMs above but carry the additional presuppositions that the referent is feminine and singular. Due to these additional presuppositions, the feminine forms will generally be preferred to the gender-neutral forms when the referent is female and singular.

(101) a.
$$[\![\theta \varepsilon 2\varepsilon]\!]^{sD} = \lambda N \lambda s_I : !\exists y . [\blacksquare I] = y \land CDE(y)(s_I) \land PROX(y) \land FEM(y) \land SG(y) . tx [_ \blacksquare I] = x \land CDE(x)s_I \land PROX(x) \land FEM(x) \land SG(x)]$$

b.
$$[\theta_{l}\theta_{d}]^{SD} = \lambda N\lambda s_{I} : !\exists y, \forall \blacksquare I^{+} = y \land CDE(y)(s_{I}) \land DISTAL(y) \land ADJACENT(y) \land FEM(y) \land SG(y). ix [\forall \blacksquare I^{+} = x \land CDE(x)(s_{I}) \land DISTAL(x) \land ADJACENT(x) \land FEM(x) \land SG(x)]$$

The denotations for the evidence-neutral GDEMs are given in (102) below. These parallel the denotations for the gender-neutral CDE GDEMs in (100) above, but have no evidential presupposition. Since these are less informative than the CDE GDEMs they will be dispreferred whenever the speaker has CDE for the referent of the demonstrative. As a result, they will be used in cases where the speaker cannot see the referent at the time utterance.

(102) a.	$\llbracket k^{w} i \check{s} i \rrbracket^{sD} =$	λN : $\exists y$. $\forall r I = y \land PROX(y)$. $\iota x [\forall r I = x \land PROX(x)]$
b.	[[<i>k</i> ^w <i>ik</i> ^w <i>a</i>]] ^{sD} =	$\lambda N: \exists y. ` \models I ` = y \land DISTAL(y) \land ADJACENT(y). \iota x [` \models I ` = x \land DISTAL(x) \land ADJACENT(x)]$
c.	$[[k^{w}a^{2}a]]^{sD} =$	$\lambda N \lambda s_I: ! \exists y. " \models I = y \land DISTAL(y). \iota x [" \models I = x \land DISTAL(x)]$

As with the CDE GDEMs, the near-distal form is more informative than the distal form and so will be preferred whenever the referent is located in a near-distal position.

The denotations for the CDE SDEMs are given in (103) below. These require there to be a discourse referent associated with the referent denoted by the demonstrative. They presuppose that the individual associated with this discourse referent meets the description of the NP and the demonstrative's deictic requirements and that the speaker has CDE for this individual; they further presuppose that the discourse referent is the most salient discourse referent to meet these requirements. The feminine demonstratives additionally presuppose that the individual associated with the discourse referent is singular and feminine. The deictic requirements vary between these demonstratives: they either encode that the referent is proximal or distal. These demonstratives are equally informative except for the feminine CDE SDEMs, which are more informative than the gender-neutral CDE SDEMs, they will be preferred whenever the referent is singular and female.

(103) Formulas for the SDEMs:

a.
$$\llbracket tin' \rrbracket^{sD,c,g} = \lambda N. \lambda y. y \in Sal_{c} \land N(g(y)) \land CDE(g(y)) \land PROX(g(y)) \land \forall z [z \in Sal_{c} \land N(g(z)) \land CDE(g(z) \land PROX(g(z))) \rightarrow [z <_{sal} y \text{ or } z = y]].g(y)$$

b.
$$\llbracket tan' \rrbracket^{sD,c,g} = \lambda N. \lambda y. y \in Sal_{c} \land N(g(y)) \land CDE(g(y)) \land DIST(g(y)) \land \forall z [z \in Sal_{c} \land N(g(z)) \land CDE(g(z) \land DIST(g(z))) \rightarrow [z <_{sal} y \text{ or } z = y]].g(y)$$

c.
$$\llbracket \theta i n' \rrbracket^{\text{sD,c,g}} = \lambda N. \lambda y. y \in Sal_{C} \land N(g(y)) \land CDE(g(y)) \land PROX(g(y) \land FEM(g(y)) \land SG(g(y)) \land \forall z [z \in Sal_{C} \land N(g(z)) \land CDE(g(z) \land PROX(g(z)) \land FEM(g(z)) \land SG(g(z)) \rightarrow [z <_{sal} y \text{ or } z = y]].g(y)$$

d.
$$\llbracket lan \rrbracket^{\text{sD,c,g}} = \lambda N. \lambda y. y \in Sal_{c} \land N(g(y)) \land CDE(g(y)) \land DIST(g(y) \land FEM(g(y)) \land SG(g(y)) \land \forall z [z \in Sal_{c} \land N(g(z)) \land CDE(g(z) \land DIST(g(z)) \land FEM(g(z)) \land SG(g(z)) \rightarrow [z <_{sal} y \text{ or } z = y]].g(y)$$

The denotations for the PDE SDEMs are given in (104). Unlike the CDE SDEMs, they do not encode deixis, and presuppose that the speaker has PDE, rather than CDE, for the individual associated with the discourse referent. Once again, the feminine form is more informative than its gender-neutral counterpart and so will be preferred when its presuppositions are met.

(104) a.
$$[\![\check{s}in']\!]^{\mathrm{sD,c,g}} = \lambda N. \lambda y. y \in Sal_{C} \wedge N(g(y)) \wedge PDE(g(y)) \wedge \forall z [z \in Sal_{C} \wedge N(g(z)) \wedge PDE(g(z)) \rightarrow [z <_{sal} y \text{ or } z = y]] \cdot g(y)$$

b.
$$[\![\imathen']\!]^{\mathrm{sD,c,g}} = \lambda N. \lambda y. y \in Sal_{C} \wedge N(g(y)) \wedge PDE(g(y)) \wedge FEM(g(y)) \wedge SG(g(y)) \wedge \forall z [z \in Sal_{C} \wedge N(g(z)) \wedge PDE(g(z)) \wedge FEM(g(y)) \wedge SG(g(y)) \rightarrow [z <_{sal} y \text{ or } z = y]] \cdot g(y)$$

The evidence-neutral feminine form $k^{w}ten$ and the discourse demonstrative $k^{w}an$ pattern with the other SDEMs, but do not have evidential or deictic presuppositions. $k^{w}ten$ parallels the PDE feminine SDEM ten but lacks the evidential presupposition. Therefore, ten will be preferred to $k^{w}ten$ whenever the speaker has PDE. Last, $k^{w}an$ has its own special presupposition that the individual associated with the discourse referent is itself a segment of discourse.

(105) a.
$$[k^{wl} \varepsilon n]^{sD,c,g} = \lambda N. \lambda y. y \in Sal_c \wedge N(g(y)) \wedge FEM(g(y)) \wedge SG(g(y))$$

$$\forall z [z \in Sal_c \wedge N(g(z)) \wedge FEM(g(y)) \wedge SG(g(y)) \rightarrow$$

$$[z <_{sal} y \text{ or } z = y]].g(y)$$

b.
$$[[k^wan]]^{\text{sD,c,g}} = \lambda N. \lambda y. y \in Sal_c \land N(g(y)) \land DISC(g(y))$$

$$\forall z [z \in Sal_c \land N(g(z)) \land DISC(g(z))$$

$$\rightarrow [z <_{sal} y \text{ or } z = y]].g(y)$$

Finally, we turn to $k^{w} \dot{s} i \dot{n}$, which unlike the other demonstratives can be non-referential and function as an indefinite. We assume that $k^{w} \dot{s} i \dot{n}$ contributes a contextually provided choice function f (see also Gillon 2006 who proposes a choice function analysis for many of the demonstratives in Skwxwú7mesh). A choice function CH(f) applies to a set and yields a member of the set. For the present, we do not fully explore what it means to be contextually given but treat the choice function as an element of the context C, where this is a broader notion than just the set of discourse referents

and information stored about them provided by the parameter c, including any information available in the utterance context that is relevant to narrowing this choice. The denotation for $k^{w} \bar{s} i \vec{n}$ in (106) specifies that the contextually provided function must be able return an individual matching both the description of the noun phrase N and the main predicate P. If the context narrows down the domain of existential quantification for the choice function sufficiently, $k^{w} \bar{s} i \vec{n}$ can refer back to an entity mentioned in previous discourse for which the speaker has no previous direct evidence, while where the context does not narrow down the domain of existential quantification, $k^{w} \bar{s} i \vec{n}$ will be fully indefinite. Because $k^{w} \bar{s} i \vec{n}$ involves existential closure, it is possible to have $k^{w} \bar{s} i \vec{n}$ taking narrow scope with respect to negation.

(106) $[k^{w} \check{s} i n']^{C} = \lambda N_{\langle e,t \rangle} \exists f \in C . [CH(f) \land f(N) = 1 \land f(P) = 1]$

9 Looking back, looking ahead

In this paper, we offered a first detailed investigation of the demonstratives in $2ay^2aju\theta = -$ an important niche in the language which has remained largely unexplored up to this point. Drawing from original fieldwork with several speakers, we not only expanded the known inventory, but also defined the syntactic distributions of the individual forms. The most intriguing insights, however, emerged in the study of their semantics. We showed that the demonstratives in this language encode much more information than the English demonstratives. In addition to fairly common distinctions, like deictic distance, gender, or number, we found that the demonstratives in $2ay^2aju\theta = a$ and the addressee. Particularly, the latter is fascinating, as it highlights the important role that gesture plays in the language — another area of research which has received far too little attention in $2ay^2aju\theta = a$. To provide a formal account for the individual demonstratives, we borrowed and adapted bits and pieces from a wide range of semantic research, such as Roberts (2001, 2015), Schwarz (2009), Speas (2010), Kalsang et al. (2013), Ebert et al. (2020), and Diessel and Coventry (2020).

While this paper provides a wealth of novel empirical data, we acknowledge that this investigation is still far from a comprehensive account. For instance, almost all of the contexts we have presented here involve singular referents. However, previous research in $2ay2aju\theta$ (e.g., Watanabe 2003) and in other Coast Salish languages (e.g., Suttles 2004; Beaumont 2011) suggests that an investigation of contexts targeting plural referents may uncover additional, yet unattested demonstratives. Likewise, a more detailed look at the interaction of demonstratives and gestures seems like a worthwhile endeavour. So far, we have primarily focussed on the use of indexical gestures, where a speaker points to the referent. However, evidence from other languages (e.g., Ebert et al. 2020) indicates that demonstratives can also occur with other types of co-speech gestures, such as iconic gestures, where the speaker illustrates a property (e.g., size, manner, etc.) of the referent with their hands.

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