

Reference in Ixcatec (Otomanguean)

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Reference in Ixcatec

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Introduction

This paper presents the functional domain of reference in Ixcatec, that is the formal means that Ixcatec uses to identify the participants in the discourse using a *non-aprioristic* approach (see Frajzyngier & Shay 2016). The coding means may consist of demonstratives, articles, and agreement, among others. The functional subdomains are presented by the name of their function in order to achieve better cross-linguistic comparability, but are introduced by a language-specific definition. Under "constructions", I present the formal means used for this function and under "contrasts" the other, most-closely related functions with which a contrast can be established. Up to four examples are presented in order to illustrate each function, some of them being the prototypical examples, in accordance with the definition, and others more peripheral or problematic. The examples are extracted from the spontaneous conversations and the data elicited through the Pear Stories films (Chafe 1975). All the data were annotated using the International Phonetic Alphabet (IPA). Glosses follow the standardized glossing rules elaborated within this project under the direction of Bernard Comrie, building on the Leipzig glossing rules.

In the following sections, I present first some background information on Ixcatec. Then I introduce the functional subdomains of reference in detail, followed by a summary and a short conclusion.

Language information

IXCATEC Santa Maria Recettán OAXACA OAXACA OAXACA OAXACA

Name and ISO code: Jhwa²ni³, better known in the literature under the name Ixcatec (IXC), ixcateco (in Spanish), based on Nahuatl ichcatl 'cotton' + -teca/-tecatl 'inhabitant of a place (whose name ends in -tlan or -lan)'.

Speakers: Ten identified speakers, of whom only four are fluent. Most of them -with one exception- are in their late 80s. All are bilingual in Spanish. They have had little formal education in Spanish and no formal education in Ixcatec.

Region : Ixcatec is spoken in the municipality of Santa María Ixcatlán in the state of Oaxaca, in Mexico. Today, Santa María Ixcatlán has some 400 inhabitants but at the time of the arrival of the Spaniards in 1522 it was an important centre for the Mixteca zone with an estimated population of 10,000 to 30,000 people.

Classification: Ixcatec belongs to the Popolocan branch of the Otomanguean stock together with Ngiba/Ngigua (also known as Chocho), Popoloc, and Mazatec.

Dialectology: There are no known dialects.

Status: Ixcatec is a critically endangered language, with less than ten speakers. An orthography was developed in the 1950s by a native Ixcatec speaker, Doroteo Jiménez, in collaboration with linguists of the Instituto Lingüístico de Verano, the Mexican branch of the Summer Institute of Linguistics. Doroteo Jiménez's orthography uses the Latin script and relies on the graphic correspondences with Spanish with some additions when necessary.

Main typological features: Ixcatec is a tone language, with three lexically contrastive tones: a high tone, transcribed with a superscripted, a mid tone, transcribed with, and a low tone, transcribed with. Its phonology is complex and not yet well understood. The existence of stress is under discussion.

Consonant inventory ranges from 24 to 52 depending on whether glottalized and aspirated consonants are analyzed as clusters of two segments, complex single segments or simple onsets followed by simple nuclei. It has five vowels which may be oral, /a e i o u/, or nasal /ã e î o u/. Ixcatec makes a clear distinction between verbs and nouns; some adjectives may also function as predicates. It is a head-marking language, i.e., grammatical relations are marked on the verb. It has accusative alignment in indexing ($A = S \neq P$), i.e., only the single argument of intransitive verbs (S) and the agent-like argument of transitive verbs (A) are indexed on the verb through suffixes. A dozen experience predicates take a different coding, namely through possessive suffixes. Ixcatec is a pro-drop language, i.e., free pronouns are optionally used for all functions, and NPs are generally omitted. It has a VS/SVO unmarked order. When an S argument is moved to the preverbal position, a cross-reference morpheme is suffixed on the verb. The Ixcatec cross-reference morphemes (-da² 'male', -k^wa² 'female', and - β a³ 'animal') corefer to nouns formed with the *noun classifiers*, di²- 'man', k^wa²- 'woman', 2^{-1} - 'animal', to some animate nouns even though they have no classifier, and to the masculine and feminine third singular pronouns which bear the same suffixes as those used for the cross-reference morphemes, i.e., su'wa'-da² 'he' and su'wa'-kwa² 'she'. Noun classifiers are distinct from so-called class terms which partake in word formation for inanimates but are not associated with any cross-reference morphemes.

Functions in the domain of Reference for the language Ixcatec

animate cross-reference

Definition	Cross-reference morphemes indicate identity of reference with some animate S or A-like arguments, only when the NPs occur in the preverbal position or are heads of subject relative clauses (see constraints).			
Construction Cross-reference morphemes are suffixed on verbs, possessives, and predicate adjectives.				
Constraints	The Ixcatec cross-reference morphemes corefer to nouns formed with the noun classifiers di²- 'man', kwa²- 'woman', ?u²- 'animal', to some animate nouns even though they have no classifier, and to the masculine and feminine third singular pronouns which bear the same suffixes as those used for the cross-reference morphemes, i.e., su¹wa¹-da² 'he' and su¹wa¹-kwa² 'she'. They are used for S/A arguments only, and only when the N is in marked positions (preverbal and sometimes the head of relative clauses).			

a²tsu² ni² kwa²tu¹tsu² kwi²hi² sa¹ lĩ²be¹tu² kwi²hi²da² la² / (IXC_LEA_CONV_01_JSB-RRM_185)

a²tsu²	ni²	kwa²tu¹tsu²		kwi²hi²		sa¹	lî²be¹tu²		kwi²hi²da²			la²	/
a²tsu²	ni²	kwa²tu¹=	tsu²	kwi²=	hi²	sa¹	lĩ²-	be¹tu²	kwi²=	hi²	-da²	la²	1
maybe	still	FUT.PL-	want\say	FUT-	arrive	DEF	CLS.boy-	NP	FUT-	arrive	-CO.M	LOC.DIST	1
ADV	ADV	TAM.PNG	V	TAM	V	DET	AFFX	N	TAM	V	PRO	ADV	1

Maybe as soon as they say, my son arrives, Veto, he will go there,

ka² me¹ndra² ki¹i² kwa² la² ʔa²ku² ndi¹ʔe¹kwa² // (IXC_LEA_CONV_04_JSB-RRM_024)

ka²	me¹ndra²	KI ¹ I ²	kwa²	la²	7a²ku²	ndi''/e'kwa²			//
ka²	me¹ndra²	ki¹i²	kwa²	la²	?a²ku²	ndi¹	-?e¹	-kwa²	//
all	for.this	LOC	woman	LOC.DIST	inside	house\place	-POSS.3SG	-CO.F	//
ONT	CONJ	PRFD	N	ADV	SPCF.SPC	N	DFT	PRO	//

the woman is there, in her house.

la²	ki¹ʃta¹hũ²		nda²	kwi¹ka¹?a²βa²				//
la²	ki¹=	∫ta¹hũ²	nda²	kw-	i¹ka¹	-7a²	-βa²	//
SUB	PROG.3SG-	be.scared	what	PFV-	seaze	-NEG	-CO.AN	//
COMP	TAM.PNG	V	PRO.Q	TAM	V	AFFX	PRO	//

Because he is scared. The animal didn't bite.

definite

Definition	The Ixcatec definite article is used as a definite anaphoric, with a referent which was previously mentioned or a referent which is pragmatically identifiable. The definite article is not used with a referent with generic meaning when it is new (first mentioned) in discourse, but it can be used with a generic referent when it is given (previously mentioned) in discourse. It is regularly used with human proper nouns.
Construction	The definite article sa¹ is used with human, animate, and inanimate nouns and does not inflect for gender or number. It precedes the N (DEF N) and generally attaches phonologically to the postposed noun it modifies. Very frequently though, in natural speech, when there is a pause between the determiner and the noun, it attaches to the preceding prosodic word, regardless of its syntactic function (and this with no obligatory vowel lengthening). Finally, examples where it does not attach to a host have been encountered in the corpus and this led us to abandon the analysis of the definite article as a clitic.
Contrasts	1) INDF (numeral 'one') 2) bare nouns (used for generic nouns only when they are given in the discourse, for groups of objects, and substances).

nda²β?e¹ sa¹ kwa²pi¹na² // (IXC_LEA_CONV_01_JSB-RRM_048)

```
nda<sup>2</sup>B?e<sup>1</sup>
                                                          11
                                   kwa²pi¹na²
nda²₿
            -?e1
                                                 pi¹na²
                                                         - //
                            sa<sup>1</sup>
                                   kwa²-
husband -POSS.3SG DEF CLF.F-
                                                 NP
                                                          //
            DET
                            DET AFFX
                                                 Ν
                                                          //
```

Crespina's husband.

hã²ã³ ndra²na² tsu² sa¹ kwa²do²kto²ra² kwi²фu²i¹na³ // (IXC_LEA_CONV_01_JSB-RRM_234)

```
kwi²qu²i¹na³
hã²ã³ ndra²na²
                        tsu<sup>2</sup>
                                        kwa2do2kto2ra2
hã²ã³ ndra²
                                                        do²kto²ra²
                                                                                φu²i¹ -na³
                                                                   kwi²-
                                        kwa²-
                                                                                              //
                 -na<sup>2</sup>
                        tsu²
                                  sa1
                       want\say DEF CLF.F-
                                                                   PFV-
      like.that -FOC
                                                        doctor
                                                                                 leave -1SG //
ves
                                                        N.BORR
PTL
      ADV
                PTL
                                  DET AFFX
                                                                   TAM
                                                                                       PRO //
```

Yes, that's why the doctor says, I left.

```
ndra² sa¹ ?u²ndja²ʰɲu³ nde²de² // (IXC_LEA_CONV_04_JSB-RRM_118)
```

```
ndra¹
             ?u²ndʒa²ʰɲu³
        sa¹
                                      nde¹de² //
ndra<sup>2</sup>
                           ndʒa²ʰɲu³ nde¹de² //
        sa¹
              ?u²-
like.that DEF CLF.AN-
                           turkey
                                      what
                                               //
ADV
       DET AFFX
                           Ν
                                      PRO.Q //
```

That's what the turkeys do.

indefinite

Definition	The indefinite article, deriving from the numeral 'one', is not fully grammaticalized in Ixcatec. It introduces a discourse-new participant either in the beginning of a story or in the middle, independent of whether it will become the topic of discussion.					
Construction	The numeral hŋgu² 'one' precedes the N.					
Constraints The indefinite article is not used with non-referential and generic nouns.						
Contrasts 1) DEF+N 2) bare nouns (used for generic nouns only when they are given in the discourse, for groups of objects, and substances)						

```
ku² li² ki¹i² hqgu² nda²tsï² // (IXC_LEA_CONV_03_JSB-RRM_027)
```

And here there is a square.

na² la² ki¹i² ¹ngu² βa¹tsu²ndu³ ki¹tʃi²ndi²e¹ la² βa²ʔi² βa²ha² tʃi²tʃʔe¹ βa²ha² // (IXC_LEA_CONV_04_JSB-RRM_028)

```
hngu² βa¹tsu²ndu³ ki¹tʃi²ndi²e¹
                 ki¹i²
                                                                   la<sup>2</sup>
                                                                               βa²ʔi² βa²ha² tʃi²tʃʔe¹
                                                                                                                      βa²ha² //
                                βa¹tsu²ndu³ ki¹=
                                                                                                                      βa²ha² //
na²
     la<sup>2</sup>
                 ki¹i²
                                                          tſi2ndi2e1 la2
                                                                               βa²ʔi² βa²ha²
                                                                                               tʃi²tʃ?
                         hngu²
                                                                                                         -?e1
                                                                    LOC.DIST be
                                                                                       weave top.of.hat -POSS.3SG
     LOC.DIST LOC
                                             PROG 3SG- sit
                                                                                                                      weave //
so
                         one
                                niaht
PTL ADV
                 PRED INDF N
                                             TAM.PNG
                                                                    ADV
                                                                                               Ν
                                                                                                         DET
                                                                                                                              //
```

So, one night she is there, sitting there, weaving her hat.

hngu² 7u²kwa² ʃu² // (IXC_LEA_NARR_01_PEARSTORY-PSG_050)

```
        hgu²
        7u²kwa²
        //u²
        ///

        hgu²
        2u²-
        kwa²
        //u²
        //

        one
        CLF.AN-
        woman
        come
        //

        INDF
        AFFX
        N
        V
        //
```

A female animal comes.

proximal reference

Definition	The proximal demonstrative indicates that an entity is located close to the speaker and the addressee.
Construction	The proximal demonstrative -ri ² is suffixed on the NP.

ni² kwa²ʃe²ku¹ ʃta¹a¹ kwa²ϕi² tʃi²tse¹ri² // (IXC_LEA_CONV_03_JSB-RRM_083)

```
ni²
     kwa²ʃe²ku¹
                                     kwa²di²
                                                  tſi²tse¹ri²
                                                                        //
                              ſta¹a¹
                                                                        //
ni²
     kwa²-
                              ſta¹a¹
                                                 tſi²tse¹
                        -ku¹
                                     kwa²-
still
     PFV-
                 PRST -ANT finish PFV-
                                                          -DEM.PROX //
                                                 party
                                             go
ADV TAM
                 PRED TAM V
                                     TAM
                                                 Ν
                                                          DET
```

As soon as it ends they go to this party.

distal reference

Definition	The distal demonstrative indicates that a referent is located far from the speaker and the addressee. It can also be used to refer to the discourse (endophoric) whether as anaphoric, i.e. referring to the preceding discourse; or recognitional, i.e. referring to entities which are considered to be known by the hearer although they have not been mentioned in the preceding discourse.
Construction	The distal demonstrative -ra ² is suffixed on the NP.
Constraints	The demonstratives combine with the definite article sa ¹ in 50% of the cases.

```
ndi¹?e¹ sa¹ di²ra² pa²dri²no² //
                                       (IXC_LEA_CONV_01_JSB-RRM_021)
                                                        pa²dri²no² //
 ndi¹?e¹
                          sa¹
                               di²ra²
 ndi¹
                          sa¹
                                 di²
                                         -ra2
                                                        pa²dri²no²
                                         -DEM.DIST godfather
 house -POSS.3SG DEF sir
                                                                     //
                                                        N.BORR
           DET
                          DET N
                                         DET
At godfather's house.
me¹ se²ma¹na²ra² /
                             (IXC_LEA_CONV_01_JSB-RRM_170)
 me<sup>1</sup>
              se²ma¹na²ra²
 me1
             se<sup>2</sup>ma<sup>1</sup>na<sup>2</sup>
                              -DEM.DIST /
 therefore week
 ADV
             N.BORR
                              DET
Therefore, that week.
 \boxed{ \textbf{ndi'} \ \phi u^2 i^1 k u^1 \ na^2 ? nde^2 ra^2 \ la^2 \ \text{fta}^1 \ si^1 \ // } \qquad \text{(IXC_LEA_CONV_03_JSB-RRM_188)} 
           φu²i¹ku¹
 ndi²
                                                            la²
                              na<sup>2</sup>?nde<sup>2</sup>ra<sup>2</sup>
                                                                     ſta¹ si¹
 ndi²
                                                            la²
                             na²?nde²
                      -ku¹
                                             -ra2
                                                                     ſta¹
                                             -DEM.DIST REL
                                                                     ugly EXS
 what
                      -ANT ground
           leave
 PRO.Q V
                                                            COMP ADJ PRED //
                      TAM N
                                             DET
```

no identification

It went to that field which is ugly.

therefore he is making candles.

Definition	It instructs the listener not to search for the referent. It is namely used for generic nouns (only when they are given in the discourse), for groups of objects, and substances.
Construction	Bare nouns.
Contrasts	1) DEF 2) INDEF

//

```
me¹ ki¹ts?u¹na² ndʒi²tʃa² //
                             (IXC_LEA_CONV_01_JSB-RRM_051)
 me¹
           ki¹ts?u¹na²
                                      ndʒi²tʃa² //
 me¹
                       ts?u¹ɲa²
 therefore PROG.3SG- make.by.hand candle
 ADV
           TAM.PNG V
```

ndi² kwa²7a¹na²na² βa²ʃe² βa¹tsu²ndu³ li²o² φi² // (IXC_LEA_CONV_03_JSB-RRM_206)

```
ndi²
       kwa²?a¹na³na³
                                        βa²ʃe²
                                                     βa¹tsu²ndu³ li²o²
ndi²
       kwa²-
                            -na³na³
                                        βi²- a²ʃe²
                                                     βa¹tsu²ndu³ li²
                                                                                    φi² //
what
       CLF.F-
                     mother -POSS.1SG IPFV- get.out night
                                                                 LOC.PROX -RESTR go
                                                                                       //
PRO.Q AFFX
                                                                           QNT
                     Ν
                            DET
                                        TAM V
                                                                 ADV
```

Because my aunt comes out at night, just here she goes.

tsi¹φi² tjhĩ²na² tsi¹βa²tsi²tʃe²ngi² ʔi²nda² ki¹ ki¹βa²ha² tʃi²tʃʔe¹ // (IXC_LEA_CONV_04_JSB-RRM_032)

tsi¹фi²		tjhĩ²na²		tsi¹βa²tsi²tʃe²ngi²		?i²nda²	ki¹	ki¹βa²ha²		tʃi²tʃʔe¹		//	
tsi¹-	φi²	tjhĩ²	-na²	tsi¹-	βa²tsi²tʃe²ngi²	?i²nda²	ki¹=	ki¹=	βa²ha²	tʃi²tʃ?	-?e¹	//	
EVD-	go	day	-FOC	EVD-	pour	water	PROG.3SG-	PROG.3SG-	weave	top.of.hat	-POSS.3SG	//	
TAM	V	N	PTL	TAM	V	N	TAM.PNG	TAM.PNG	V	N	DET	//	

reportedly they go by day to pour water. She is weaving her hat.

possessive reference

Definition	Possession within an NP indicates that an entity X (the possessed) belongs/is related to an entity Y (the possessor).
Construction	Ixcatec expresses nominal possession using the structure 'N1-POSS N2' where N1 is the possessed, N2 the possessor, and the suffix codes the person and number of the possessor. The possessed can also appear on its own bearing the possessive suffixes. Ixcatec has inalienable possession, e.g. kinship terms are always possessed. Moreover, body part terms bear a specific set of possessive suffixes.

```
ndi¹?e¹ sa¹ di²ra² pa²dri²no² //
                                      (IXC_LEA_CONV_01_JSB-RRM_021)
 ndi¹?e¹
                         sa¹
                                                      pa<sup>2</sup>dri<sup>2</sup>no<sup>2</sup> //
                         sa¹
                                                      pa²dri²no²
 house -POSS.3SG DEF sir
                                        -DEM.DIST
                                                      godfather
          DET
                         DET N
                                        DET
                                                      N.BORR
At godfather's house.
```

nda²β?e¹ sa¹ kwa²pi¹na² // (IXC_LEA_CONV_01_JSB-RRM_048)

```
nda²β?e¹
                      sa1
                           kwa²pi¹na²
                                             //
                                             11
nda²β
         -?e1
                      sa1
                           kwa²-
                                      pi¹na²
husband -POSS.3SG DEF
                                      NP
                          CLF.F-
                                             //
         DET
                      DET AFFX
                                             //
                                      Ν
```

Crespina's husband.

He goes for our flowers.

restrictive quantifier

Definition	The restrictive quantifier restricts the scope of X (e.g. referent, location, temporal span) in relation to a set of alternatives.
Construction	The restrictive -o² 'just, only' attaches to nouns, adverbs (locative, manner), demonstratives and locative predicates.

```
∫hwa²ni¹o²
                                                                                                         βi²ʃku²ʔa²na²
                                                     ni2tfhe2 nda1ra2
                                                                                    mi<sup>2</sup>?e<sup>2</sup>?a<sup>2</sup>
∫¹wa²
                                                                                                                         i²ʃku²
                                                                                                                               -?a²
                    -ni¹
                                                     ni²tſʰa²
                                                                                    mi<sup>2</sup>?e<sup>2</sup>
                                                                                                -?a2
                                                                                                         ß-
                                          -o²
                                                               nda1ra2
                                                                                                                                        -na²
language\lxcatec -POSS.1SG.INCL -RESTR talk
                                                                                                                                -NEG -FOC
                                                                                                -NEG IPFV-
                                                                          what
                                                               what
                                                                                    hear
                                                                                                                         see
                    DET
                                          QNT
                                                               PRO.Q PRO.Q V
                                                                                                AFFX TAM
                                                                                                                                AFFX PTL
```

talks in pure Ixcatec language but she can't hear, can't see.

| φu²i¹?a²na²ma² o²di²to²ri²o² ?i¹a²na² lo² tu¹hu² // (IXC_LEA_CONV_01_JSB-RRM_276)

φu²i¹?a²na²ma²				o²di²to²ri²o²	?i¹a²na²		lo²		tu¹hu²		//
φu²i¹	-7a²	-na²	-ma²	o²di²to²ri²o²	?i¹a²	-na²	1	-O ²	tu1=	hu²	//
leave	-NEG	-FOC	-3PL	auditorium	no	-FOC	LOC.DIST	-RESTR	PROG.PL-	be.together	//
V	AFFX	PTI	PRO	N BORR	PTI	PTI	ADV	ONT	TAM PNG	V	//

They left the auditorium, no. They're just there.

me¹e¹ro² βa²tu¹tse²ka²tẽ²hẽ² // (IXC_LEA_CONV_03_JSB-RRM_068)

They are having it picked up, just that.

universal quantifier

Definition	Universal quantifiers indicate that the predicate refers to all the members of a set.
Construction	ka² 'all', ka²na¹ko³ 'everything'

la² ndra² ka²ndi² βa²tu¹φi² ka² li²nda²wa²na² / (IXC_LEA_CONV_02_JSB-RRM_047)

```
la²
                     ka²ndi² βa²tu¹φi²
         ndra<sup>2</sup>
                                                   ka²
                                                           lî²nda²wa²na²
la<sup>2</sup>
                                              φi² ka²
                                                           |î2-
         ndra<sup>2</sup>
                     ka2ndi2
                               βa²tu¹=
                                                                             nda<sup>2</sup>wa<sup>2</sup>
                                                                                            -na<sup>2</sup>
COMP like that when
                               PROG.PL- go all
                                                           CLS.bov-
                                                                             male\brave -FOC
COMP ADV
                     ADV
                                TAM.PNG V
                                                   QNT AFFX
```

like that when all the young people go...

ka²na¹ko³ βa²tse² re²si²βi² ka² tʃa²hmi² me¹nda² // (IXC_LEA_CONV_02_JSB-RRM_086)

```
ka²na¹ko³
           Ba2tse2
                         re²si²βi²
                                  ka²
                                         tía2hmi2 me1nda2 //
ka2na1ko3
           βa²-
                   tse2
                         re2si2βi2
                                   ka²
                                         t[a2hmi2
                                                  me1nda2
everything IPFV-
                                   all
                   do
                         receive
                                         people
                                                  for.this
           TAM
                   AUX V.BORR QNT N
                                                  CONJ
```

Everything that all the people are going to inhale, that's why.

kwa²φi² βi²ka²hu²ku¹ ka²na¹ko³ βi²ka¹ // (IXC_LEA_CONV_02_JSB-RRM_234)

```
kwa²¢i²
            βi²ka²hu²ku¹
                                ka2na1ko3
                                           ßi²ka
                                                          11
kwa²-
            ßi²ka²hu²
                                ka²na¹ko³
                                            βi²−
                                                  i²ka¹
                                                          //
                         -ku1
                                everything
PFV-
                         -ANT
                                           IPFV- seaze
                                                         //
            bring
        go
TAM
        V
                         TAM
                                QNT
```

came and took it all.

Synthesis & Discussion

In sum, in this study I identified the following reference subdomains in Ixcatec: animate cross-reference, definite reference, indefinite reference, proximal reference, distal reference, reference not identified, possessive reference, restrictive quantifier, and universal quantifier.

The existence of articles in the Popolocan languages in general is not treated in detail. In Adamou (2016), I present some preliminary results from Ixcatec in order to evaluate the degree of grammaticalization. The Ixcatec morpheme sa^i is described as an optional demonstrative by Fernandez de Miranda (1961: 93). Analysis of the contemporary data, however, indicates that sa^i has been grammaticalized as a definite article. Qualitative analysis of the data shows that the Ixcatec definite article is used as a definite anaphoric, with a referent which was previously mentioned or a referent which is pragmatically identifiable. The Ixcatec definite article is not used with a referent with generic meaning when it is new in discourse, but it can be used with a generic referent when it is given in discourse. Moreover, despite not being very advanced along the grammaticalization path, the Ixcatec definite article is regularly used with human proper nouns, provided they have a lexical classifier, a topic that clearly needs to be further investigated.

Similarly, the existence of a grammaticalized indefinite article is of interest. Ixcatec ${}^h \eta g u^2$ 'one' is used as a numeral, but it can also be used to introduce a new participant either in a presentative construction, or with a specific referent independent of whether it will become the topic of discussion. The Ixcatec indefinite is not used with non-specific referents.

Similar to other Mesoamerican languages, Ixcatec expresses nominal possession using the structure 'his-noun₁ noun₂' where noun₁ is the possessed and noun₂ the possessor (Campbell, Kaufman and Smith-Stark 1986: 545). Again like other Mesoamerican languages, Ixcatec has inalienable possession, also known as *intimate possession* (Campbell, Kaufman and Smith-Stark 1986: 549).

Finally, we note that unlike in other Popolocan languages, Ixcatec has a reltively small number of lexical classifiers (Veerman-Leichsenring 2004). For the sake of clarity, the analysis adopted here is to consider the morphemes that have no syntactic effect as part of a lexical derivation process, glossed CLS for "class terms", and the morphemes that have a syntactic component, namely when they trigger cross-reference morphemes on the verb, as lexical classifiers (Grinevald 2000). Most lexical classifiers and class terms are derived from nouns with a generic meaning, such as 'person', 'animal', 'tree', 'flower'.

Conclusion

To conclude, this is a tentative analysis of the Ixcatec functional domain of reference. The description is expected to evolve as more data get analyzed in more detail.

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