Chapter 9. Discourse

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STATEMENTS may stand alone, but very often they are part of a communication SESSION.

A session is a consistent flow of messaging between one or more senders and one or more receivers.

A simlar concept is DISCOURSE, so a simple definition is in order.

Discourse is an act of communication involving language and consisting of more than one message.

Here, DISCOURSE is taken to be roughly parallel to SESSION, translated into the realm of sociolinguistics, as opposed to digital communication. DISCOURSE adds a social aspect to communication that may be missing or difficult to identify in the OSI model of electronic message transmision, upon which Nwehu Nuswei's message structure is roughly based (see §4.1).

A discourse or session can take many forms depending on the Channel. For example, in spoken communication, a session might be a conversation, a lecture, or an announcement. In written communication, a session could be a letter, a thread in email or social media, a memo, an article, or a book.

There are many ways of characterizing DISCOURSE, including the number of entities involved, level of formality, channel, social aspects and implication. Languages need (and natural languages have) ways of connecting individual MESSAGES into a larger whole, a DISCOURSE.

Sessions are often bound together by inserting words into statements to provide transitions and logical structures. Let's take a brief look at these now.

Short DISCOURSES – two or three MESSAGES – may need less connective effort than longer DISCOURSES. Informal settings may also require less connective effort. But in general, the longer and more formal a DISCOURSE, the more effort is needed to connect its MESSAGES meaningfully.

Some of these techniques take the form of specialized words and rules for their use. At this point, no specific DISCOURSE rules have been developed specific to Nwehu Nuswei (NN), and it is unlikely that any ever will. Much connective effort falls into the realms of style and rhetoric – the art or science of communicating effectively – but languages must provide techniques to do so. In keeping with similar issues,

speakers of NN are simply expected to use the techniques from their first language(s) together with words made available in NN.

Many languages provide MESSAGE and DISCOURSE connectivity by requiring "agreement" between classes of words; in some cases, these provide not only connectivity but helpful redundancy in case of "noisy" CHANNELS. Here are a few examples from various languages which have been avoided in NN, or made optional:

- Gender agreement between nouns, adjectives and pronouns (most Indo-European (IE) languages);
 absent in NN
- Verb forms that reflect the NUMBER and PERSON (singular, plural, 1st, 2nd, 3rd persons) of ACTORS involved (most IE and many other families); absent in NN
- Words to indicate what category of entity is being discussed (languages of East Asia); a limited set of
 categories is optionally available as MARKERS in NN
- Verb forms that indicate the relative social status of the participants in a DISCOURSE (widespread); optional in NN by using MARKERS; in DISCOURSE, these can help disambiguate the intended receiver if more than one is present (as well as fulfill socially-mandated requirements).

Discourse connectives in NN fall into two general categories: NARRATIVE and SEMANTIC.

NARRATIVE CONNECTIVES connect parts of a discourse together by providing logical, temporal or locational information.

SEMANTIC CONNECTIVES function to clarify the connections between ideas that recur in a discourse

These will be discussed separately in the following sections.

9.1. Semantic Connectives

SEMANTIC CONNECTIVES are principally found in the DEICTICS of the \dagger ---- FAMILY of NN. The purpose of a DEICTIC is to "point" to something else:

- in space: LOCATIVE DEICTICS
- among the participants in a narrative or DISCOURSE: PERSONAL PRONOUNS
- in a subordinate clause: RELATIVE PRONOUNS
- among IDEAS mentioned: ARTICLES

DEICTICS are discussed in their own chapter, so here we'll focus on the connective functions of the two classes that connect elements of a discourse; the RELATIVE PRONOUNS and the ARTICLES.

9.1.1. Relative pronouns

Words in the †--- H--- family with a palatal consonant as the third letter are relative pronouns. Their purpose is to connect a noun phrase in a message to a <u>clause</u> in the same message, as in "The big bad wolf <u>who ate Grandmother</u> is outseide":

```
h_{K} h_{J}
                                        ኢኴሂጘ~ Γዌፈ<sub>ብ</sub>
                    ΤΣLЧ
                               ^{\mathrm{I}}પ્^{\mathrm{L}}
                                                                                    \Gamma \Psi_{\mathrm{IL}}
                                                                                              YYZA.
                                                              \mathsf{K} \mathbf{\lambda}^{\mathfrak{I}} \mathbf{\lambda}
Yoxo
          tupo
                    nuxw hoyoi jane~ xoigw mumwe
                                                                                    xoha
                                                                                              sekw.
                               who*
wolf
          big
                    bad
                                         eat
                                                    did^
                                                               grandmother
                                                                                    is †
                                                                                              outside
'Big bad wolf who ate Grandmother is outside.'
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RELATIVE PRONOUNS immediately follow the NOUN PHRASE and are immediately followed by the CLAUSE which they connect to the NOUN PHRASE. In the example above, each letter of the RELATIVE PRONOUN IACA hoyoi is explained.

Connections: The ROLE (ACTOR) connects I ADDA hoyoi to the CLAUSE as its ACTOR; ANIMACY (ANIMATE), NUMBER and PERSON (3RD PERSON SINGULAR) connect the ACTOR in the clause with the superodinate noun (PARTICLE) 'wolf'.

The word $_{LR^{TQ}}$ xoigw has $_{L}$ i in V1, indicating that it is the verb of a subordinate clause. The second verb $_{LR^{TD}}$ xoha lacks $_{L}$ i, so by default it is the verb of the main message. The clause ending word $_{R^TR^Q}$ sutwa could optionally be placed after $_{L^TR^Q}$ mumwe; this is described in the §9.2.1 below. Articles

^{*} C1: DEICTIC; V1: DEFINITE ACTOR; C2: ANIMATE RELATIVE PRONOUN; V2: SINGULAR THIRD PERSON;

[^] C1: Verb; V1: Subordinate certain; C2: wave complete; V2: Past

[†] C1: VERB; V1: CERTAIN; C2: FIELD ONGOING; V2: PRESENT

In natural languages, ARTICLES usually have multiple functions. This makes their purpose complex and difficult to explain. For purposes of discussion, we'll define it simply this way:

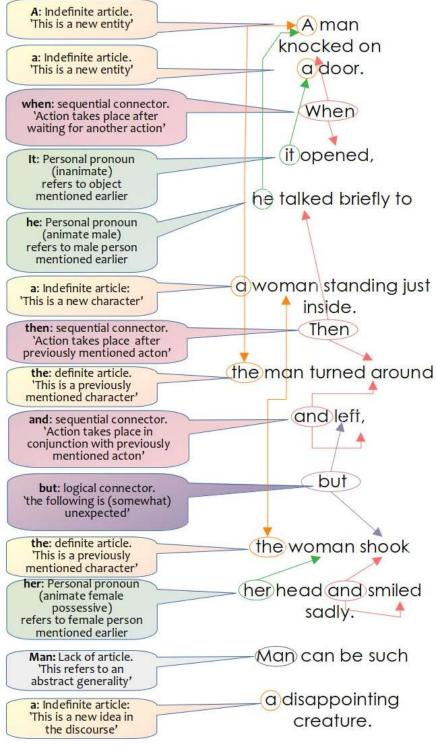
An article is a word or morpheme, part of a noun phrase, clarifying the role and nature of the noun in the message and discourse.

Most IE languages and many others use ARTICLES. Engish uses the contrast between the, a, and lack of ARTICLE to help clarify references to IDEAS.

These words are used to stitch together DISCOURSE by indicating whether a noun refers to something that has been talked about already, one that has not, or a more general kind of familiarity. Though the general principle is the same in most IE languages, the practical application can be different in very subtle ways.

To illustrate, let's use a very simple English narrative (diagrammed in \mathfrak{D}_{ρ} 9.1):

A man knocked on a door. When it opened, he talked briefly to a woman standing just inside. Then



 \mathcal{D}_{p} 9.1: Discoure linking illustration

the man turned around and left, but the woman shook her head and smiled sadly. Man can be such a disappointing creature.

In the first sentence, the article "a" is used with "man". This little word carries several concepts:

- INDEFINITE (1): "man" refers to an entity that has not yet been "defined" (discussed) in this DISCOURSE.
- INDEFINITE (2): "man" does not refer to a specific person or to someone of importance to the narrative. The narrator might have used "the man" even though this is the beginning of the story, to indicate that this is a particular "man" of some significance to the DISCOURSE. In English, this narrative technique is not the more common way of telling a story.
- SINGULAR number: there is only one "man" being discussed

In the second sentence, a second character is introduced using "a" to indicate she is also new singular entity in this DISCOURSE. In the third sentence, both "man" and "woman" are preceded by the definite article "the". It's primary concept:

• Definite: indicating that the following word refers to an entity which is the same as an entity mentioned before, thus "stitching together" the narrative.

And finally, "Man" in the last sentence, without an article, indicates 'man' in the more general sense of 'humans' or 'human males'. In a way the lack of an ARTICLE in English serves as a sort of INDEFINITE ARTICLE without implying singular number, since in this sense "man" is a very indefinite IDEA. NN provides specific options for handling all these concepts by providing a much richer set of ARTICLES than most natural languages.

In NN, all ARTICLES, PRONOUNS, and DEICTICS are either DEFINITE or INDEFINITE. (Speakers who don't want to commit themselves to either should use the INDEFINITE form, which is more general.)

- DEFINITE words are used to indicate that this idea has been mentioned before. "Then the man turned around and left" (from narrative above)
- Indefinite words do not imply a previous mention or any familiarity. "A man walked..." (from narrative above)

In addition to Definite and Indefinite, NN articles can indicate focus, NUMBER, GENDER, DISTANCE, ROLE, and ANIMACY, which will be duscissed in the following sections.

9.1.2. Personal Pronouns also Function as Connectives

Personal pronouns are words that substitute for names of entities in discourse. They have a connective role, stitching together a DISCOURSE in which a full name or identification of an entity is mentioned in one

message, and a later message in the same DISCOURSE uses a PRONOUN as a reference to the full name of the previously mentioned entity. In decoding the MESSAGE, the receiver must associate the PRONOUN with the previously mentioned entity by matching semantic attributes of the entity with those encoded in the PRONOUN.

For example, in the previous narrative, the sentence, "Then the man turned around and left, but the woman shook her head and smiled sadly" could equally well have been encoded as, "Then he turned around and left, but she shook her head and smiled sadly." The pronouns link the narrative by refering to semantic attributes given in the previous sentence: "man" and "he" share the semantic attribute of male gender; "woman" and "she" likewise share female gender. Pronouns work in this context because singular English Pronouns encode for gender, and the two participants are of different genders. If the participants had been of the same gender, the use of Pronouns (both "he" or both "she") would have left the meaning ambiguous.

Other attributes encoded in English Pronouns include Number (singular-plural), animacy (living-unliving), and sentence Role (actor-object-possessive). Not all attributes are encoded in all English Pronouns: singular has gender and animacy ('he-she-it') but plural does not ('they' serves for all). In contrast, NN preserves all encoded attributes in all forms, extending the usefulness of Pronouns and Articles by providing more distinctive attributes with which to link a discourse.

However, two characteristics of NN ARTICLES and PRONOUNS vary from many natural language characteristics of related word classes: First, NN does not encode gender in any of these words; and also, ARTICLES are optional. Full description and analysis of ARTICLES and PRONOUNS is found in the chapter on Deictics.

9.1.3. Encoded Attributes of Articles and Pronouns

 \mathfrak{D}_{ρ} 9.2 lists semantic attributes that can, must, or cannot be encoded in articles and pronouns. Speakers wishing to use unavailable attributes for linking a discourse may consider the alternative "Workarounds" shown, many of which involve the use of Functionals.

Using such a functional by itself, in place of a deictic, is quite acceptable. However, many of the functional species do not offer a way to show the attributes focus, role, or number. If message senders feel a need to encode any of those attributes, they should append the functional as a marker to the pronoun or article. For example:

'She is here'

(FUNCTIONAL only) IT I Hume sehi /hə'me se'hi/

Female person here: 'She is here' (Hume: §8.2.8)

Nwehu Nuswei	Chapter 9. Discourse
(PRONOUN+MARKER)	[†] ԵՀԺ-II _{ՀՎ Ա} IL <i>Himoi-hume sehi /</i> hiˈmɔjˌmɛ sɛˈhi/ Pronoun personal focused animate actor singular+animate female here: 'She is here'
'The sheet is white'	
(functional only)	ትዩኢጉ
	Sheetlike flat class of objects white: 'The sheet is white' (Hupa: §8.2.11)
(PRONOUN+MARKER)	^ֈ լ <u>ֈ</u> լ-ււ <u>ֈ</u> ր դլյլ <i>Hipi-<mark>hupa nifi /</mark></i> hi'pi _. pa ni'fi/
	Pronoun personal inanimate definite singular any person+flat class of objects white: 'It sheet is white'
'Your honor is correc	t'
(FUNCTIONAL only)	ተ፣ርብ ፓ፣ፕብ Hujo nuge /həˈʤɔ nəˈgɛ/
	Honored (social class) correct: 'Sir/Madam is correct' (Hujo: §8.2.13)
(PRONOUN+MARKER)	FLAB-IITA AITA Himai-hujo nuge /hi'maj,dzo no'ge/
	Personal pronoun animate definite singular second person+honored social class correct:
	'Your honor is correct'

₯ 9.2: Encoded Attributes of Articles and Pronouns

Attribute	ARTICLE	Pronoun	NN method of expression
Role: Actor	~	~	(see key in last row of this display)
Role: Object	~	~	
Role: indirect obj.	~	~	Benefactive
Role: Possessor	-	-	Use BENEFACTIVE if unambiguous; otherwise a FUNCTIONAL or appended MARKER of SPECIES 12 L- Huf-
Definite Indefinite	+	+	Must be specified. For ARTICLES, this is a major function; for PRONOUNS, normal usage is DEFINITE
Focus	~	~	
Animacy	~	~	
Number	~	~	
DISTANCE	~	-	Use pronoun to indicate person
PERSON (1st, 2nd,3rd, any)	-	+	To indicate distance, append MARKER of SPECIES 1tr-Hur-to PRONOUN: Itrd hure 'close' (\$8.2.5) Itrp hura 'mid' Itrd huro 'far'
Gender	-	-	Append MARKER to ARTICLE or PRONOUN: (§8.2.8) II LA hume 'female' II LA huma 'flex gender' II LA humo 'male'
Social status	-	-	Add Marker of Species לבּיךַ- Huj (§8.2.14) בּבּיךֵל huje 'equal, companion' JP 'לילי 'SP 'tu' בּבּיך huja 'respected' JP 'לילי 'SP 'Usted' בּבּיך hujo 'honored' JP 'לילי 'SP 'Vuestra merced'
Class (by shape)	-	-	Substitute functional or append marker, species եւչ - Hup- (§8.2.12)
		Key	~ Optional; an "unspecified" form is available + Required; NO "unspecified" form is available - No form is available to express this attribute; see Workaround

9.2. Narrative Connectives

As statements are put together to form discourses, these narrative connectives are usually inserted at or near the beginning of statements, though they may be placed anywhere, including the end. Almost always, they

are put at the beginning or end of a PHRASE or clause so as not to disrupt the form of these grammatical structures. Placement of narrative connectives is one of several rhetorical tools in the toolchest of effective speakers.

The choice of words to use as connectives is quite flexible, but there are several categories of words especially useful for this purpose, discussed in the following sections.

9.2.1. Verbal Punctuation (cf. §8.2.10)

Species Ar_H - Sut- is intended for use in spoken Messages when, for whatever reason, the intonation of the Message doesn't accurately convey phrasing and Message ending. Such situations could include conversation between NN speakers whose native language intonation systems are different enough, when used in NN, to cause confusion; or in transmission through Channels that don't convey intonations or pauses well, such as low-fidelity radio.

Species Av_A - Sut- contrasts with species Av_A - Nwep- 'Session level of communication', discussed in §9.2.4 below, in that Sut- is intended specifically for beginning and ending various levels of Messages, while Nwep- is intended primarily for technical discussion about communication. Dimentional organization of Species Av_A - Sut- is shown in Dp 9.3.

Д₀ 9.3: Verbal Punctuation Dimensions

Dimension 1:	<u> </u> Ա Կ–Լ	i w w-i			
	Beginning of structure	L i			
	Ending of structure	ч w			
	Subordinator ending	Կ [–] Ն <i>w-i</i>			
	General	(no peripheral vowels)			
Dimension 2:	<u> </u>	e a o			
	Phrase-level	d e			
	Clause-level	r a			
	Discourse-level	ત ૦			
	General	(no central vowel)			

Dρ 9.4 charts the vocabulary of *A*εχ- *Sut-*.

 \mathcal{D}_{ρ} 9.4: Sut- Verbal Punctuation Vocabulary

Core value	e value General			Beginning		Ending	Sul	oordinator ending	
					i		w		w-i
unspecified, general	u	sutu	General connective	suti	General beginning	sutw	General stop	sutwi	General subordinator ending
Phrase-level	e	sute	Phrase-level connective	sutei	Phrase-level subordinator beginning	sutwe	Lowest level (phrase) stop	sutwei	Lowest level (phrase) subordinator ending
Clause-level	а	suta	Clause-level connective	sutai	Clause-level subordinator beginning	sutwa	Mid-level (clause, sentence) ending	sutwai	Mid-level (clause, sentence) subordinator ending
Discourse- level	o	suto	Discourse level connective	sutoi	Discourse-level subordinator beginning	sutwo	High-level (discourse, paragraph) ending	sutwoi	High-level (discourse, paragraph) + subordinator ending

9.2.2. Exclamations as Connectives

As discussed in the §4.5, there is a SPECIES of NN words for exclamations. These words are also listed in §8.2.1. Certain exclanations are also useful as connectives, primarily in oral conversation (dialog). The words in \mathfrak{D}_{ρ} 9.5 may be helpful as links.

 \mathcal{D}_{P} 9.5: Connective Exclamation Words

Connection Task	NI	N	Meaning	
Starting a conversation	ItiY	huhei	/hɛj ɛj/	'getting attention'
	IIIB	huhai	/haj aj/	'greeting'
	III	huhwi	/hwi wi/	'question'
Hesitation or desire to speak next	ITIT	huhu	/ə/	'uhhh'
General reactions to statements	IIIL	huhi	/hi i/	'yes'
	PITI	huhw	/hu u/	'no'
	III	huhe	/h ϵ ϵ /	'maybe'

Responding emotionally to statements	IIIP	huha	/ha a/	'pleasure, mirth'
	131Y	huho	/hə ə/	'surprise'
	III	huhoi	/həj əj/	'pleasant surprise'
	TITIO	huhwa	/hwa wa/	'disappointment'
	PITI	huhwai	/hwaj waj/	'anger'
	RITI	huhwo	/hwə wə/	ʻalarm'
	,,	huhwoi	/hwəj əj/	'fear'

9.2.3. Narrative Connectives (cf. §8.2.20)

Species AtN- Suk- was developed specifically to provide words for Message connectivity. Two semantic dimensions are used to assign final vowels, as shown in $D\rho$ 9.6.

Dp 9.6: Narrative Connective Dimensions

Dimension 1:	<u> </u> Ա Կ-Մ	i w w-i		
	Emphasis		Ն	i
	Alternative		Ч	w
	Unexpected		ч-Г	w-i
	Simple sequence	(no perip	oheral	vowels)
Dimension 2:	4 ^ፓ ብ	eao		
	Example + listing		ત	e
	Temporal sequence		Ŋ	а
	Alternatives of logic or discourse		ਰੰ	0
	Simple	(no cent	ral vov	wels)

Functons and meanings of Species λ_{EN} - Suk- are listed in Dp 9.7.

D_P 9.7: Narrative Connective Terms

Roman	IPA WORD MARKER	NN	Semantics	Closest Natural Words
suku	sə'kə ˌskə	Year	sequence	and
suki	sə'ki ˌski	Year	emphatic sequence	and also
suke	sə'ke ˌske	$Y_{LA}Y$	listing	next
sukei	sə'kɛj ˌskɛj	ΥτλΥ	emphatic listing	next also
suka	sə'ka ˌska	YIAD	temporal sequence	then
sukai	sə'kaj ˌskaj	YI/I	emphatic temporal sequence	and then
suko	sə'kə ˌskə	$\gamma_{\mathcal{I}\mathcal{A}}\gamma_{\mathcal{I}}$	first logical alternative	ὁ μεν 'on the one hand'
sukoi	sə'kəj ˌskəj	ArAB	emphatic logical sequence	so of course
sukw	sə'ku ˌsku	YIЛЛ	alternative	or
sukwi	sə'kwi ˌskwi	Year	unexpected sequence	but next
sukwe	sə'kwe ˌskwe	K_{N_3}	alternative listing	or else
sukwei	sə'kwɛj ˌskwɛj	$\mathbb{R}_{\Lambda\mathfrak{I}}$	unexpected listing	but what is more
sukwa	sə'kwa ˌskwa	Υταυ	temporal alternative	or then
sukwai	sə'kwaj ˌskwaj	Arab	unexpected temporal sequence	but then
sukwo	sə'kwə ˌskwə	Krik	second logical alternative	ὁ δε, on the other hand
sukwoi	sə'kwəj ˌskwəj	$\Re u$ IK	unexpected logical alternative	but on the other hand

9.2.4. Session Layer Terms

NN is loosely built around a model of communication called the **Open Systems Interconnection (OSI)** Model (§4.1). This is used primarily in electronic data communication systems, and divides the end-to-end process into seven "layers". The fifth of these is the "Session Layer". To accommodate and embody this model, the \mathcal{F}_{HX} - Nwep- species provides terms for the main concepts in the Session Layer. These terms may be unlikely candidates for informal conversation, but in more structured situations they may prove useful. \mathfrak{D}_{ρ} 9.8 charts these.

₯ 9.8: Session Layer Terms

Core value		General		St	Starting		Ending		ontinuing
					i	w			w-i
unspecified,	u	nwep	communication	nwepi	session	nwepw	sesson	nwepwi	session interaction
general		u	session concept		beginning		ending		
Wave	e	nwepe	activity of a	nwepei	starting a	nwepwe	ending a	nwepwei	activity during a
			session		session		session		session
FIELD	a	nwepa	session rules &	nwepai	rules for	nwepwa	rules for	nwepwai	rules for session
			systems		starting a		ending a		interaction
					session		session		
Particle	o	nwepo	a session	nwepoi	start of a	nwepwo	end of a	nwepwoi	session interaction
					session		session		

Although these are primarily for discussions **about** sessions, another possible application of these words would be to preface a session (such as a formal lecture or meeting) with $\mathcal{L}_{\text{HX-Nwepei}}$ 'Session starting', $\mathcal{L}_{\text{HX-Nwepwi}}$ when interaction is appropriate, and $\mathcal{L}_{\text{HX-Nwepwei}}$ 'Session ending' when the lecture or meeting is concluded.

9.2.5. Logical Connectives

"Formal logic" defines the relations between logical propositions, each represented by symbolic "operators". NN defines a species of words to refer to these relationships or operators. These are available for use as logical CONNECTIVES in discourse.

This species is $\exists x_{\square}$ - $\exists x_$

₯ 9.9: Logical Operators

			i			w		w-i
	tuyu		tuyi	→ Material	tuyw	٦	tuywi	←
		Therefore		condition		Negation		Converse implication
		(Logical Operators)		'imply'		'not'		'if'
e	tuye	Т	tuyei	3	tuywe	\perp	tuywei	\leftrightarrow
		Truth, tautology		'there exists'		Falsity,		Biconditional
						contradiction		'if and only if'
а	tuya	٨	tuyai	\forall	tuywa	/>	tuywai	1
		Conjunction		'for all'		material		Alternative denial
		'and'				nonimplication 'but		'not both'
						not'		
o	tuyo	V	tuyoi	4	tuywo	\downarrow	tuywoi	Ø
		Disjunction		Exclusive or		Joint denial		Absurd
		'or'				'neither nor'		

9.2.6. Cause-and-effect Connectives (cf. §8.2.17)

Species Atti- Suh- refers to cause and effect relations by assuming two states: Atti_ suhi 'before' and Atti4 suhw 'after'.

In the 'before' state, a $_{A^{\text{TIP}}}$ suha 'situation' may exist, which may be identified with the $_{A^{\text{TIP}}}$ suhai 'cause' which may bring about change to a different $_{A^{\text{TIP}}}$ suhwa 'resulting condition'. A $_{A^{\text{TIP}}}$ suhwoi 'instrument' may be used in the process – itself not directly part of the cause.

These 'conditions' may arise due to certain $A^{\text{EL}_{1}}$ suho factors, bringing about $A^{\text{EL}_{2}}$ suhoi 'change' that results in the $A^{\text{EL}_{4}}$ suhw 'effect', or $A^{\text{EL}_{4}}$, suhwei 'unintended effects' which may take place also.

Change may take place as a result of a certain <code>Alld. suhei</code> 'action, impulse', and may be carried forward by some entity <code>Alld. suhoi</code> 'mover' (animate or inanimate, singular, plural, or group), possibly with a <code>Alld. suhwi</code> 'goal'.

The action causing the change to occur is the $_{A^{EI}A}$ suhei 'impulse' and brings about the $_{A^{EI}\Phi}$ suhwa 'resulting condition', but $_{A^{EI}\Phi}$ suhwai 'negative conditions or factors' may impede or prevent the change.

The final vowel is arranged according to the two dimensions shown in \mathfrak{D}_0 9.10.

 \mathcal{D}_{P} 9.10: Cause and Effect Dimensions

Dimension 1:	լ ч ч−լ	i w	w-i			
	Before		Ն	i		
	After		Ч	w		
	Purposiveness		ч-Г	w-i		
	Situation	(no peripheral vowels)				
Dimension 2:	4 _L 4	eao				
	Wave	action	Ч	e		
	Field	condition	ח	а		
	Particle	Concept, entity	ď	o		
	General	(no central vowels)				

Meanings of the words are listed in \mathfrak{D}_{ρ} 9.11.

 \mathcal{D}_{P} 9.11: Cause and Effect Vocabulary

Core	Situational		Situational Before		After		Purposiveness		
value									
					i		w		w-i
	u	suhu	Cause-effect relation	suhi	Cause	suhw	Effect	suhwi	Goal
			in general						
action	e	suhe	Means (manner of	suhei	Impulse, action	suhwe	Process of change	suhwei	Unintended effect
(WAVE)			accomplishment)		causing change				
condition	а	suha	Condition (physical,	suhai	status quo,	suhwa	Resulting	suhwa	Hinderance,
(FIELD)			psychological, etc.)		original		condition, "after"	i	counter-measure,
					condition		environment		preventive
concept	o	suho	Factors or occasions	suhoi	Mover, agent of	suhwo	After-effect	suhwoi	Instrument
(PARTICLE)			associated with		change				
			change						

9.2.7. Sequence Words (cf. §8.2.4)

Species fur-Hur words can be used as markers or stand-alone words; as discourse connectives or to express sequences within narratives and lists. This is discussed in more detail in §8.2.5.

 \mathcal{D}_{P} 9.13: Sequencer Vocabulary

			Ordered		Before		After		Neighboring
Core value					i		w		w-i
Unmodified direction	u	huru	Ordered sequence; marks ordinal number	huri	ahead, before	hurw	behind, after	hurwi	neighboring
near	e	hure	close (in space or time)	hurei	next	hurwe	previous	hurwei	same position, two in same position, simultaneous
mid-distance	а	hura	Moderate distance	hurai	somewhat ahead	hurwa	somewhat behind, soon after	hurwa i	multiples in same position, multiple simultaneity
far	0	huro	distant	huroi	farthest ahead, first	hurwo	last	hurwo i	all in same position, no sequence, unordered

9.2.8. Discourse Links (cf. §8.2.7)

The fr_{π} -Hun-species provides words for linking and managing Discourse. Do 9.14 lists these with notes.

D_P 9.14: Discourse Links

Roman	IPA	NN	Semantics	Usage
hunu	hə'nə ^{fiə} ,nə	īτ\τ	Discourse	Can be used at the opening of a DISCOURSE
huni	hə'ni ^{fiə} ˌni	īī∖Lſ	reason	Refers to the mental process by which a MESSAGE is formed
hune	hə'nε ^{fiə} ˌnε	ıτΥΥ	MESSAGE (received)	general term for transmission of IDEAS, usually by language. 'MESSAGE received' acknowledges receipt, 'I hear you'
hunei	hə'nɛj ^{fiə} ˌnɛj	ΥΥ ^τ	understand	AS response to a MESSAGE, 'Message successfully decoded', 'I understand'
huna	hə'na ^{fiə} ına	IΙΛυ	time (when)	Refers and links to the general temporal context of a MESSAGE
hunai	hə'naj ^{ƙə} ˌnaj	ıı∖LB	period of time (when)	Refers and links to the specific time mentioned in a MESSAGE
huno	hə'nə ^{fiə} ,nə	ιτλų	place	Refers and links to the general location of a MESSAGE
hunoi	hə'nəj ^{fiə} ˌnəj	$\mathfrak{I}\mathfrak{I}$	location	Refers and links to the specific location of a MESSAGE

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hunw	hə'nu ^{fiə} ınu	īΣڵત	question	A MESSAGE that seeks a response; can be attached as a MARKER to point out the specific item in question
hunwi	hə'nwi ^{fiə} ˌnwi	$^{ m l}$	explanation	Response to a request for information about the reasoning behind a STATEMENT
hunwe	hə'nwɛ ^{fiə} ,nwɛ	$KX^{\mathfrak{I}\mathfrak{I}}$	repeat	Request to repeat a MESSAGE. 'What?'
hunwei	hə'nwɛj ^{fiə} ˌnwɛj	$R^{\mathfrak{I}\mathfrak{I}}$	explain	Request for information about the reasoning behind a STATEMENT
hunwa	hə'nwa ^{fiə} ,nwa	īΣλω	when?	Request for the temporal context of a MESSAGE
hunwai	hə'nwaj ^{fiə} ˌnwaj	ıτλα	specify time	Request for the specific time of a MESSAGE
hunwo	hə'nwə ^{fiə} ,nwə	$^{\mathrm{K}}$	where?	Request for the physical context of a MESSAGE
hunwoi	hə'nwəj ^{fiə} nwəj	$\Re X^{{ m II}}$	specify place	Request for the specific location of a MESSAGE

This concludes the discussion of DISCOURSE-level tools.