On a Language With Adverbials

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Overview

- Part 1: Engineered Languages
- Part 2: Natlang Motivation
- Part 3: A Conlang with Adverbials

Part 1: Engineered Languages

Engineered Languages: 'Engelangs'

- Explore possibilites of language: grammar, phonology, etc.
- Thought experiments,
- Often extreme:
 - highly regular vs. highly irregular
 - highly reduced vs. highly loaded with everything
- May be very abstract,
 - e.g. formally grounded on linguistic models,
 - e.g. on predicate logic and derivatives.

Possible Purposes

- Personal fun playing with grammar,
 - ⇒ there is no 'wrong'
- Explore linguistic corner cases
- Test what human brains are able to do
- Provide an international auxiliary language (IAL):
 - Usual goal: the 'easiest' language,
 - \Rightarrow easily cause argument about what may be 'wrong'.

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This talk focuses on an abstract, personal thought experiment.

Engelang Example: Ithkuil (John Quijada)

Design Goals:

- Find and manifest all possible categories in language,
- Short words, high semantic density, complex phonology,
- High degree of precision, low degree of ambiguity,
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Oumpeá äx'ääļuktëx.

'On the contrary, I think it may turn out that this rugged mountain range trails off at some point.'

Engelang Example: Fith (Jeffrey Henning)

Design Goals:

- Idea: aliens might use a more computer-like grammar,
- Fully stack-based grammar like Forth computer language,
- A natural language different from human languages.

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hen	\xrightarrow{push}	hen
fat	$\stackrel{modify}{\longrightarrow}$	fat hen
the	$\overset{modify}{\longrightarrow}$	the fat hen
box	push	box
		the fat hen
the	modify	the box
	→	the fat hen
on	modify	on the box
	\longrightarrow	the fat hen
:-	reduce	the fet her is

the fat hen is on the box

is.

Part 2: Natlang Motivation

- Adverbials
- Serival Verb Construction
- Types of Words

Part 2.1: Adverbials

What Is an Adverbial?

Adverbials modify sentences:

```
Take a sentence: 'I eat.'

Add an adverbial: 'again'
```

Get another sentence: 'I eat again.'

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Take a sentence: 'I eat.'
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Get another sentence: 'I eat again.'

You can do this more than once:

```
Add another adverbial: 'today'
```

Get yet another sentence: 'I eat again today.'

What is the problem with my eating habit?

lexical adverb 'I eat often.'

```
lexical adverb "I eat often." derived adverb "I eat quickly."
```

```
lexical adverb 'I eat often.'

derived adverb 'I eat quickly.'

prepositional clause 'I eat with joy.'
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lexical adverb

derived adverb

prepositional clause

participle phrase
adverbial clause

'I eat often.'

'I eat quickly.'

I eat with joy.'

'I eat using a spoon.'

'I eat while I talk.'
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Conlang Goal:

- Make these the same \Rightarrow have a *slim* grammar,
- Have only one type of adverbial instead of many

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Conlang Goal:

- Make these the same ⇒ have a slim grammar,
- Have only one type of adverbial instead of many
- 'Verb + Something' seems to be versatile
 ⇒ Go for something like participle phrases

Again: What is the problem with my eating habit?

'I eat often.' \rightarrow 'I eat repeating the meal.'

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'I eat often.' \rightarrow 'I eat repeating the meal.' 
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'I eat telling stories.'
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Problems:

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    'using' and 'having' are generic verbs
    ⇒ examples feel bloated
    ⇒ many variations: 'I eat enjoying the food.'
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- 'using' and 'having' are generic verbs
 ⇒ examples feel bloated
 ⇒ many variations: 'I eat enjoying the food.'
- Complex clauses: 'I eat while the waiter pours me wine.'
 - \Rightarrow We might need more structure... (Later...)

German vs. English

Different natlangs use different structures:

English: auxiliary verb: 'He *likes to* sing.' German: lexical adverb: 'Er singt *gerne*.'

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Transformation:

```
'He likes to sing.' → 'He sings having joy.'
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English: Different Possibilities

Similar things use totally different structures:

- 'I sing reluctantly.'
- 'I sing with reluctance.'
- 'I am reluctant to sing.'

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Transformation:

all of the above \rightarrow 'I sing lacking joy.'

One Step Towards Goal: Mandarin

Example sentence from Mandarin Chinese:

他 看 書。

Tā kàn shū.

He see book

'He reads a book.'

One Step Towards Goal: Mandarin

Example sentence from Mandarin Chinese:

他看書。

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He see book

'He reads a book.'

Mandarin adverbs precede the verb:

他 常常 看 書。

Tā *chángcháng* kàn shū.

He often see book

'He often reads a book.'

Mandarin: Auxiliaries

Example sentence from Mandarin Chinese:

他 看 書。

Tā kàn shū.

He see book

'He reads a book.'

Mandarin auxiliaries also precede the verb:

他喜歡看書。

Tā *xǐhuān* kàn shū.

He like see book

'He likes to read a book.'

Mandarin: Adverb? Auxiliary?

```
他 常常 看 書。
Tā chángcháng kàn shū.
```

他 喜歡 看 書。 Tā *xǐhuān* kàn shū.

Adverbs and auxiliaries are hardly distinguishable in Mandarin.

Mandarin: Adverb? Auxiliary?

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他 常常 看 書。
Tā chángcháng kàn shū.
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Adverbs and auxiliaries are hardly distinguishable in Mandarin.

Good, so it's doable in our conlang!

Part 2.2: Serial Verb Construction

Serial Verb Construction (SVC)

SVC is a sequence of verb phrases.

- often unpredictable effects on meaning
- yet strangely obvious to understand
- often sequence of events
- often adds description to actions
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- often unpredictable effects on meaning
- yet strangely obvious to understand
- often sequence of events
- often adds description to actions
- often minimal dedicated syntax, if any
- English: 'Please go get some coffee.'
- Mandarin:
 - 他回來看朋友。 Tā húi lái kàn péngyǒu. he return come see friend He came back to visit friends.

Serial Verb Construction: With Objects

Mandarin allows verbs plus objects in serial verb constructions:

他用筷子。 他吃飯。
Tā yòng kuàizi Tā chī fàn.
he use chopstick he eat cooked_rice
He uses chopsticks. He eats.

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```
筷子。
                              吃
                                   飯。
他
   用
                          他
   yòng kuàizi
Τā
                         Τā
                              chī
                                  fàn.
                              eat cooked_rice
he
          chopstick
                          he
    use
He uses chopsticks.
                         He eats.
```

他用 筷子 吃 飯。 Tā yòng *kuàizi* chī *fàn*. he use chopstick eat cooked_rice He eats *with chopsticks*.

Serial Verb Constructions: Longer!

家 常常 他 在 用 筷子 吃 飯。 iiā chángcháng yòng Τā fàn. zài kuàizi chī rice he be-at home often chopstick use eat At home, he often eats with chopsticks.

Serial Verb Constructions: Longer!

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Conlang Goal:

Use serial verb construction as the only sentence structure

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Conlang Goal:

Use serial verb construction as the only sentence structure
 ⇒ get rid of that subject!

Part 2.3: Types of Words

Types of Words: 'Lexical Classes'

What kinds of words are there in the lexicon?

English:

```
nouns (ham, eggs, beer, ...)
verbs (to eat, to drink, to sing, ...)
adjectives (hungry, thirsty, fast, ...)
pronouns (he, she, they, we, ...)
determiners (a, the, that, ...)
...
```

Open Lexical Classes

Which class has more words than you can possibly count?

English:

```
• nouns (ham, eggs, beer, ...)
```

- verbs (to eat, to drink, to sing, ...)
- adjectives (hungry, thirsty, fast, ...)

Mandarin:

```
nouns (rice, eggs, beer, . . . )
```

```
• verbs (to eat, to sing, hungry, fast, ...)
```

No adjectives? Maybe not. (Compare Japanese, Korean, \dots)

Mandarin: Word Classes

It is difficult to determine word classes in Mandarin:

他 用 筷子。 Tā yòng kuàizi. he use chopstick He uses chopsticks.

他有 筷子。 Tā yǒu kuàizi. he have chopstick He has chopsticks.

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筷子 很 有 用。 Kuàizi hěn yǒu yòng. chopstick very have use Chopsticks are very useful.

Is it clearer in English?

Time flies like an arrow.

Is it clearer in English?

Time flies like an arrow. Fruit flies like a banana.

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In isolation, it is unclear whether 'flies' is noun or verb. Similar with 'like'. It becomes clear only in context.

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In isolation, it is unclear whether 'flies' is noun or verb. Similar with 'like'. It becomes clear only in context.

Conlang Goal:

Have only one open lexical class: substantives.

Part 3: A Conlang with Adverbials

Summary:

• Express every bit of information by an adverbial,

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 (We might need some more structure...)
- Have only one open lexical class.
- Derivation with suffixes (like English: likelyhood),
- Phonology: simple, standard off-the-shelf ①, good for making a presentation when you're actually too late, (There was only a theory before Groningen...)

Phonology: Substantives

The structure of basic words:

first syl.		other syl.	
		mb,nd,ng	
	a	pl,kl	
р	e	pr,tr,kr	а
t	i	lp,lt,lk	i
k	0	rp,rt,rk	u
	u	ln,rn	
		rs,ts	

```
pa, pe, pi, po, pu, ta, te, ti, to, tu, ...
pamba, pambi, pambu, pemba, pembi, pembu, ...
panda, pandi, pandu, ... panga, pangi, pangu, ...
tengu, taplu, tandakru, kopru, kutsindi, papru, tarti, tartartartarta, parsa, parsatsi, kolkumbi, ...
```

Mandatory Mention: Finnish

```
fi en parsa = asparagus
```

Phonology: Suffixes

For a limited set of modifiers:

first syl.		other syl.	
		mb,nd,ng	
n	а	pl,kl	
m	e	pr,tr,kr	a
V	i	lp,lt,lk	i
- 1	0	rp,rt,rk	u
r	u	ln,rn	
		rs,ts	

- -na, -ne, -ni, -no, -nu, ...
- -namba, -nambi, -nambu, -memba, -membi, -membu, ...
- -nanda, -nandi, -nandu, ... -nanga, -nangi, -nangu, ...
- tengu, -raplu, -randakru, -lopru, kutsindi, -napru, -rarti, -rartartartar,
- -narsa, -narsatsi, -lolkumbi, ...

Word + Suffix

By construction, words can be easily segregated:

```
tinda \Rightarrow tinda tina \Rightarrow ti=na
```

parsanandu ⇒ parsa=nandu

tinarsamumbu ⇒ ti=narsa=mumbu

Even if no spaces are written between words:

tindaparsanandatinarsamumbutina ⇒ tinda parsa=nanda ti=narsa=mumbu ti=na

Thus we have a *self-segregating morphology*.

Substantives

	verbial	nominal
pitsa	being a pizza	pizza
purkingu	being boeuf bourguignon	boeuf bourguignon
kekla	being wine	wine
Pitru	being Peter	Peter
Parsi	being Mary	Mary
to		I/we
ki		you/y'all
fa		he/she/it
kengi	drinking/eating	(process of) drinking/eating
polti	ingested	(process of being) ingested
kolpatri	moving	movement
kalnu	quick	high speed

Adverbial

adverbial = verbial + nominal

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 $p \rightarrow f$

 $t \mathop{\to} s$

 $k {\longrightarrow} h$

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verbial	nominal	English
polti	folti	ingested
to	SO	I/we
kalnu	halnu	quick
Pitru	Fitru	Peter
Parsi	Farsi	Mary

Adverbials: Examples

```
polti + pitsa \rightarrow poltifitsa ingested + pizza \rightarrow pizza being eaten kengi + to \rightarrow kengiso ingesting + I \rightarrow I eat kalnu + kolpatri \rightarrow kalnuholpatri quick + movement \rightarrow quickly
```

Serial Verb Construction

The first sentence:

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Peter gives the book to Mary

 \rightarrow taken book, giving Peter, arriving_at Mary

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verbial nominal leave Germany

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Whatever!

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The suffixed substantive undergoes initial mutation:

 $p \rightarrow m$

 $t\!\to\! n$

 $k{\to} v$

$$compound = substantive + substantive$$

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 $k \! \to \! v \hspace{5mm} k \! \to \! \eta \! > \! \gamma \! > \! g^w \! > \! w \! > \! v \hspace{5mm} \text{(cf. Finnish: pukua} \to \mathsf{puvun)}$

$${\sf compound} = {\sf substantive} + {\sf substantive}$$

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 $t \! \to \! n$

$$k {\rightarrow} v \hspace{0.5cm} k {\rightarrow} \eta {>} \gamma {>} g^w {>} w {>} v \hspace{0.5cm} \text{(cf. Finnish: pukua} \to \text{puvun)}$$

verbial	nominal	suffix	English
pitsa	fitsa	mitsa	pizza
kekla	hekla	vekla	wine

Compounds, Derivation, Suffixes: Examples

```
\mathsf{kekla} + \mathsf{kondu} \to \mathsf{keklavondu}
\mathsf{wine} + \mathsf{red} \to \mathsf{red} \; \mathsf{wine}
\mathsf{l-} \; \mathsf{and} \; \mathsf{r-} \; \mathsf{start} \; \mathsf{suffixes} \; \mathsf{only}:
\mathsf{tengu} + \mathsf{la} \; \to \; \mathsf{tengula}
\mathsf{water} + \; \mathsf{generalized} \to \; \mathsf{liquid}
```

I love evidence/mood particles!

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- ⇒ Many of my conlangs have evidence/mood particles
- \Rightarrow This conlarg has evidence/mood particles.

I love evidence/mood particles!

- \Rightarrow Many of my conlargs have evidence/mood particles
- ⇒ This conlang has evidence/mood particles.
- ⇒ Each sentence starts with a mandatory evidence/mood particle.

What Are Evidence/Mood Particles?

A class of words that clarifies the *purpose* or *viewpoint* of the utterance.

- Why did you say that?
- Where does the information come from?

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Examples:

pi	experience	this information is first hand experience
turnu	hearsay	I heard this information, someone told me
pumbi	interrogative	this is a question (cf. Japanese カ ka)
torturpa	optative	this is a wish
peltu	declaration	I declare this
kilta	intuition	this describes my current feeling/mood
korki	instinct	this is what my gut tells me

→□→→□→→□→→□→□ □ のQ○

Correction of First Example

The first sentence again:

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```
pi kalnu -kolpatri kengi -to polti -pitsa experience quick move ingesting I ingested pizza '[My experience is that] I eat pizza quickly.'
```

More Evidence/Mood Examples

```
Peltu kirsuso ...

peltu kirsu -to

declare asking/begging I

'I hereby ask, ...'

'..., please'
```

More Evidence/Mood Examples

```
Peltu kirsuso ...

peltu kirsu -to

declare asking/begging I

'I hereby ask, ...'

'..., please'
```

Pumbi kengihi?

```
pumbi kengi -ki
question ingesting you
'Would you like to eat or drink anything?'
```

More Evidence/Mood Examples

```
Peltu kirsuso ...

peltu kirsu -to

declare asking/begging I

'I hereby ask, ...'

'..., please'
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Pumbi kengihi?

```
pumbi kengi -ki
question ingesting you
'Would you like to eat or drink anything?'
```

Pumbi poltisengularulti?

```
pumbi polti -tengu =la =rulti
question ingested water generalize which?
liquid
```

'What would you like to drink?'

Simple subordination: more serial verbs

Peltu kirsuso korki poltifitsa.

peltu kirsu -to korki polti -pitsa declare asking I instinct eaten pizza 'I hereby ask, my gut tells me a pizza is eaten.' 'I'll have a pizza, please.'

Simple subordination: more serial verbs

Peltu kirsuso korki poltifitsa.

```
peltu kirsu -to korki polti -pitsa declare asking I instinct eaten pizza 'I hereby ask, my gut tells me a pizza is eaten.' 'I'll have a pizza, please.'
```

Evidence/mood markers also marks the start of clauses ⇒ new clause can be started with another evidence/mood marker.

Lesson: At the Restaurant

Peter: Mary, do you like this restaurant?

Mary: Yes, let's go in.

They go in and sit down at a table.

Waiter: What would you like to drink? Red wine and water, please. Peter:

So, I will have to drive?

Mary:

Mary sighs

Only water for me please.

After a while...

Waiter: What would you like to eat?

Mary: Boeuf Bourgignon for me, please.

Peter: I think I will have a pizza.

Lesson: In Front Of the Restaurant

Torturpa kalpangufarsi pumbi pultuhenginembi?

torturpa kalpangu -parsi pumbi pultu -kengi =tembi optative listening Mary question liked ingesting place 'Let Mary listen: is the ingestion place liked?' 'Mary, do you like the restaurant?'

Lesson: In Front Of the Restaurant

Torturpa kalpangufarsi pumbi pultuhenginembi?

torturpa kalpangu -parsi pumbi pultu -kengi =tembi optative listening Mary question liked ingesting place 'Let Mary listen: is the ingestion place liked?' 'Mary, do you like the restaurant?'

Kilta terkafu. Po tursohotsi!

kilta terka -pu po turso kotsi intuition good do imperative going_to inside 'Seems like a good action to me. Let us go to the inside.' 'Ok, let's go in.'

Lesson: Ordering Beverages

. . .

Peltu kirsuso

```
peltu kirsu -to declare asking I 'I ask, ...'
```

korki poltiheklavondura sengu.

```
korki polti -kekla =kondu =ra -tengu instinct ingested wine red and water '... my gut says, red wine and water are ingested.'
'I'll have red wine and water, please.'
```

Lesson: In the Restaurant

The rest of the dialog is homework.

What is missing?

Material for the next talk:

- Relative clauses,
- Complex adverbial clauses,
- Possession,
- ...
- . . .

Thank you!

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