Problem 1 Guazacapán Xinka

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The Xinkan languages

- Small family of languages:
 - Guazacapán (1 semi-speaker in 2014)
 - Jumaytepeque (2 rememberers in 2010)
 - Chiquimulilla (extinct late 1970s)
 - Yupiltepeque (extinct approx. 1908)
- Extensive fieldwork conducted in the 1970s by Terrence Kaufman and Lyle Campbell (data analysed by Christopher Rogers)



Generalisations

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• e.g. -? = verbs without object (*intransitive* + *passive*)

The verb

	Verb with object (transitive)	Verb without object (intransitive/passive): add - ?
Complete actions	-	CVCV → C VV CV
	(piri, ipla)	(p <mark>ii</mark> ri, ipla, işpa)
Incomplete actions	Add ' to final consonant Add a between 2 consonants	
	(pir'i, ip <mark>a</mark> l'a, iş <mark>a</mark> p'a)	

The prefixes/suffixes

	Verb with object (transitive)		Verb without object (intransitive/passive) (- ?)	
	Completive	Incompletive	Completive	Incompletive
1SG	-n'	in-		
3SG	-у'	N/A	-	a-

Sound changes

What about:

- in-yu4am'u → inyu4um'u
- in-pir'i-? → imbiri?

Two main principles:

- Sounds next to each other become more similar. (= **assimilation**)
- Glottal sounds (**?**, **C'**) next to each other become less similar. (= **dissimilation**)

Becoming more similar: n + ptkp't'k'

- e.g. **in-pir'i** → imbir'i
- $n \rightarrow m$ before p + p' (pronounced with the lips)
- $n \rightarrow \eta$ before k + k' (pronounced with back of the tongue)

• $p \rightarrow b$ after n (pronounced with vibration/voicing) $t \rightarrow d$ $k \rightarrow g$

Becoming more similar: vowels

- The inserted vowel *a* becomes another vowel if surrounded by that vowel:
 - in-yutam'u → inyutum'u
 - in-tikan'i → intikin'i

Becoming less similar: glottals

- Glottal sounds are those pronounced by briefly blocking the air in the throat/larynx.
- i.e. ? and consonants followed by '
- These sounds do not like being pronounced next to each other.

• (also **ş' → ts'**)

Becoming less similar: glottals

- ... $C'V-y' \rightarrow ... C'V-y$ (e.g. $hik'a-y' \rightarrow hik'a-y$)
-**C'**∀-**n'** →**C'**∀-**ŋ**
- (e.g. **hɨk'a-n'** → **hɨk'a-ŋ**)

●**C'**\/-**?** →**C**\/-**?**

(e.g. **a-hik'a-?** → **a-hika-?**) (e.g. **in-işap'a-?** → **in-işapa-?**)

Task (a)

	Form 1	Form 2	Translation	8
15.	netkay'	innetak'a	push	in-netak'a
16.	kiriy'	iŋgir'i	pull	iŋ-gir'i
17.	p'uhruy'	imp'uhur'u	make holes	im-p'uhur'u
18.	her'oy	inher'o	smooth out	in-her'o

Task (b)

39.	her'oŋ	I smoothed (it) out	
40.	inişpa?	I left	
41.	apla?	it was opened	
42.	şur'uy	it chose (it)	ุธุนr'น- <mark>y</mark>
43.	pirin'	I saw (it)	piri-n'
44.	inşawats'a	I plant (it)	ɨn-şaw <mark>ats</mark> 'a
45.	k'aani?	it was trapped	k'aani-?
46.	imp'ihana?	I leap	im-p'ihana-?
47.	ahika?	it is being sewn, woven	a-h <mark>ik</mark> a-7
48.	inipla?	I was bathed	in-ipla-?

Task (b)

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şur'u-y
piri-n'
in-şawats'a
k'aani-?
im-p'ihana-?
a-hika-?
in-ipla-?

Who graded?

- Sam Ahmed (me!)
- Dmitry Gerasimov
- Dan-Mircea Mirea
- Alexander Piperski



• (with much help from Jan Petr and Liam McKnight)

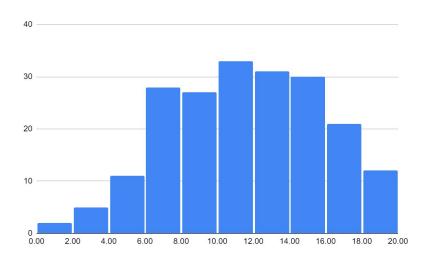
Questionnaire

• You voted this the easiest problem...

Questionnaire

- You voted this the easiest problem...
- ...and you were right!

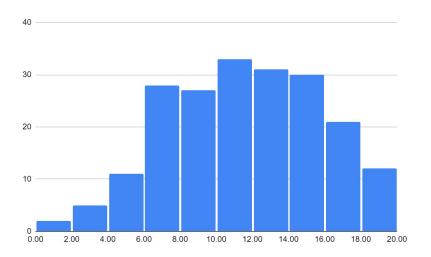
• Average score: 11.3 / 20



Questionnaire

- You voted this the easiest problem...
- ...and you were right!

- Average score: 11.3 / 20
- Three 20/20s...



Best solutions

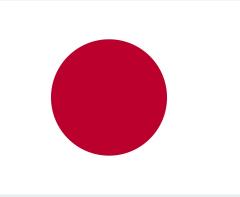
Yijie Wang

Australia Scotch



Ryusei Omiya

Japan Samurai



Brest Lenarčič

Slovenia

