

### Saek as a not-so-aberrant Tai language



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## Saek as a not-so-aberrant Tai language

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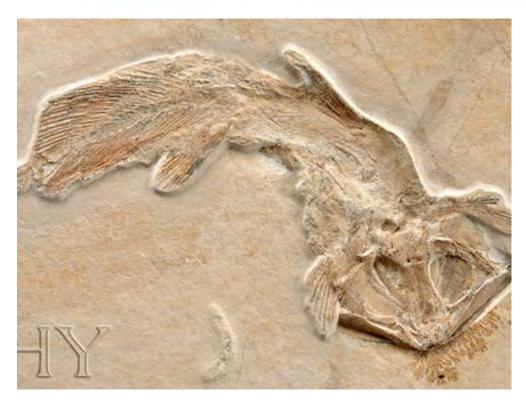
### Coelacanth

 The coelacanth has been nicknamed a "living fossil", because it originally was known only through fossils, long before the first discovery of a live specimen. The coelacanth is thought to have evolved into roughly its current form approximately 400 million years ago.

(Wikipedia contributors 2012)







### **Coelacanth fossil**

The coelacanth were thought to have been extinct since 99.6–65.5 years ago. It was rediscovered in 1938 off the southern coast of Africa (Wikpedia contributors 2012)





### Saek and its discovery

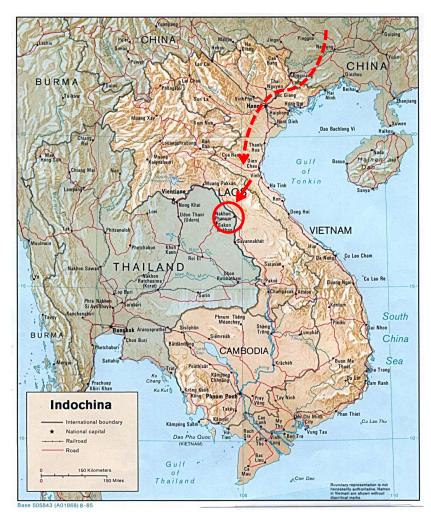
- First mentioned in late 19<sup>th</sup> and early 20<sup>th</sup> centuries
- Previously thought to be Mon-Khmer (e.g. Seidenfaden 1930)
- Recognized as Tai by Fraisse (1950) and Haudricourt (1958)





### **Distribution and history**

- Spoken in NE Thailand, central Laos, and possibly central Vietnam.
- Arrived in Thailand in the early 19<sup>th</sup> century.
- Oral history suggests that its speakers migrated from Vietnam (Hudak 1993; Chamberlain 1998)
- Possibly ultimately from Guangxi (Haudricourt 1958).





### Saek as an NT language

- Haudricourt (1958; 1963) believes that Saek belongs to the Northern branch of Tai (NT).
- Gedney (1970) demonstrates that Saek shows distinctively NT lexical and phonological traits.





### **NT features in Saek**

- Vocabulary
  - /pul<sup>1</sup>/ 'body hair'
  - /p<sup>h</sup>iəŋ<sup>4</sup>/ 'city'
  - /p<sup>h</sup>iə<sup>5</sup>/ 'shirt'
- Rimes
  - /viː<sup>4</sup>/ 'fire' < PT \*-yj
  - /γaj<sup>6</sup>/ 'feces' < PT \*-ωj</li>
  - /rain<sup>4</sup>/ 'house' < PT \*-yin</li>
  - /suak<sup>6</sup>/ 'elbow' < PT \*-woːk</li>

- Onsets/tone
  - /yam<sup>4</sup>/ 'bitter' < PT \*Ç.k-</li>
  - /ma<sup>2</sup>/ 'come' < PT \*<sup>h</sup>m-
  - /p<sup>h</sup>al<sup>4</sup>/ 'to be' < PT \*m.p-</li>





### **Retentions in Saek**

- PT clusters (cf. Haudricourt 1963)
  - \*pr-:/p<sup>h</sup>rak<sup>4</sup>/ 'vegetable', /p<sup>h</sup>ram<sup>2</sup>/ 'head hair',
  - \*p.r-:/praːk<sup>6</sup>/'to be exposed', /preːk<sup>6</sup>/'broken'
  - \*bl-:/blian<sup>1</sup>/ 'moon', /bloːk<sup>6</sup>/ 'flower'
- PT \*-l (cf. Gedney 1993)
  - \*-el : /mlεl<sup>4</sup>/ 'body louse', /nεl<sup>6</sup>/ 'civet'
  - \*-al : /ɣal<sup>4</sup>/ 'dike', /hal<sup>2</sup>/ 'to crow'



### "Abberrancies" in Saek

- Correspondences to PSWT \*d-
  - /d-/: /di<sup>1</sup>/ 'good', /dam<sup>1</sup>/ 'to smell'
  - /r-/:/rip<sup>4</sup>/'raw',/rok<sup>6</sup>/'catfish'
  - /tl-/:/truəl<sup>1</sup>/ 'earthworm', /tram<sup>1</sup>/ 'to transplant'
- Viewed as divergent outcomes of cluster resolutions by Pittayaporn (2009), i.e.
  - \*d- vs. \*Ç.d- vs. \*t.n-





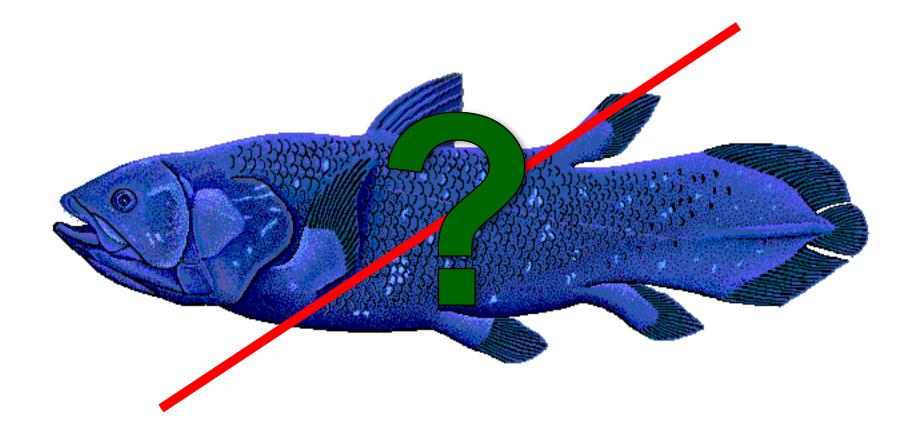
## "Abberrancies" in Saek (cont.)

- Multiple correspondences of Saek /j-/
  - Saek /j-/ ~ PSWT \*j-, \*<sup>?</sup>j-, \*z-, and \*<sub>J</sub>-
  - What are the sources of Saek /j-/?
- Split of \*A1H
  - /hiːŋ²/ 'ginger' vs. /keːn¹/ 'arm'
  - How is the alleged split of \*A1H explained?
- Unique set of the twelve year names
  - /thriw<sup>3</sup>/ 'year of the ox', /run<sup>4</sup>/ 'year of the ox'
  - Where did Saek acquire the set?





### Tai coelacanth?







### **Proposal**

 The so-called "aberrancies" outcomes of contact-induced changes.







What are the sources of Saek /j-/?

### Multiple correspondences of Saek /j-/





### **Correspondences to PSWT**

	PSWT	Saek
*j-	*jaː <sup>B</sup> *jaːn <sup>A</sup>	/jaː <sup>5</sup> / 'grandmother' /jaːl <sup>4</sup> / 'slack'
*°j-	*'jiəp <sup>D</sup> *'juː <sup>A</sup>	/jiəp <sup>6</sup> / 'to step on' /juː <sup>6</sup> / 'to be at'
*z-	*zak <sup>D</sup> *zaj <sup>A</sup>	/jak <sup>6</sup> / 'to wash (clothes)' /jaj <sup>4</sup> / 'fish trap'
* <b>j</b> -	*juː <sup>C</sup> *jaːj <sup>A</sup>	/juː <sup>6</sup> / 'lover' /jaːj <sup>4</sup> / 'eave'





### Known developments

 \*'j- and \*j- merged after tone split in most Tai dialects

	Thai	Shan	Saek	Gloss
*j-	/juŋ¹/	/juŋ <sup>4</sup> /	/ɲuŋ⁴/	'mosquito'
	/jaː³/	/jaː <sup>3</sup> /	/ɲua³/	'grass'
*?j-	/juː²/	/ju²/	/juː <sup>6</sup> /	'to be at'
	/jaː¹/	/jaː¹/	/jaː¹/	'medicine'



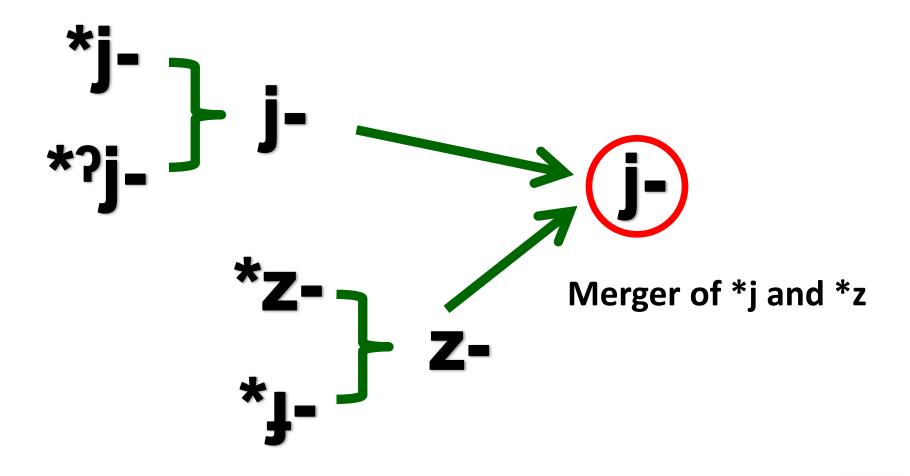
 Some etyma has reflexes \*z- in all NT but \*jin SWT (Li 1977; Kosaka 1992; Pittayaporn 2009)

	White Tai	Yay	Saek	Gloss
*Z-	/sɯ <sup>5</sup> /	/θο <sup>5</sup> /	/jɔː <sup>5</sup> /	'straight'
	/sak <sup>4</sup> /	/θak <sup>1</sup> /	/jak <sup>6</sup> /	'to wash'
*j-	/caːŋ <sup>6</sup> /	/saːŋ <sup>6</sup> /	/saːŋ <sup>6</sup> /	ʻelephant'
	/cɯ <sup>5</sup> /	/so <sup>6</sup> /	/sɔː <sup>6</sup> /	ʻmorning'
*Z-~* <del>J</del> -	/cu <sup>6</sup> /	/ju <sup>6</sup> / /θaːj <sup>4</sup> /	/juː <sup>6</sup> / /jaːj <sup>4</sup> /	'lover' 'eaves'





### **Cleaner picture**







# Merger of /j-/ and /z-/ in Vietnamese dialects

Proto- Vietnamese	Spelling	North	Fangchéng	North- Central	Central	South
*r	r	Z	j	ન	ન	ન
*j	d	Z	j	t	j	j
*t	gi	Z	j	Z	j	j
*v	W	V	V	V	j	j

Adapted from Alves (2002) and Ouyang (1984)





### Saek /j-/ as a result of contact

- The change \*z- > j- is unlikely to have been internally motivated because earlier \*y- and \*vare still allowed, cf.
  - /yal<sup>4</sup>/ 'grandmother' < PT \*yal<sup>A</sup>
  - /vi<sup>4</sup>/ 'grandmother' < PT \*wi<sup>A</sup>
- Given Vietnamese loanwords (Kosaka 1997), the merger of \*j- and \*z- was most likely induced by contact with Vietnamese.





### How is the alleged split of \*A1H explained?

### Split of \*A1H



### A1H items

- A1H items are etyma that go back to \*A and the following onsets:
  - Voiceless unaspirated stops: \*p<sup>h</sup>-, \*t<sup>h</sup>-, \*c<sup>h</sup>-, \*k<sup>h</sup>-
  - Voiceless fricatives: \*f-, \*s-, \*x-, \*h-
  - Voiceless nasals: \*<sup>h</sup>m-, \*<sup>h</sup>n-, \*<sup>h</sup>ŋ-, \*<sup>h</sup>ŋ-
  - Voiceless liquids and glides: \*<sup>h</sup>w-, \*<sup>h</sup>l-, \*<sup>h</sup>r-





### **Normal reflexes of A1H**

 Normal reflexes of A1H etyma have tone 2 in Saek (Gedney 1970, 1989; Kosaka 1992)

	PSWT	White Tai	Saek	Gloss
*s	*saːw <sup>A</sup>	/θaːw¹/	/saːw²/	'unmarried woman'
* <sup>h</sup> m	* <sup>h</sup> maː <sup>A</sup>	/maː¹/	/maː²/	'dog'
* <sup>h</sup> r	* <sup>h</sup> raːw <sup>A</sup>	/haːw¹/	/raːw <sup>2</sup> /	'to yawn'
* <sup>h</sup> W	* <sup>h</sup> waːn <sup>A</sup>	/vaːn¹/	/vaːl²/	'sweet'

Data from Hudak 2008



### "Regular" tone 1?

- Tone 1 is expected for A1M items
  - Voiceless unaspirated stops: \*p-, \*t-, \*c-, \*k-
  - Glottalized stops and glide: \*b-, \*d-, \*'j-, \*?-

PSWT	White Tai	Saek	Gloss		
*kaː <sup>A</sup>	/kaː¹/	/kaː¹/	'crow'		
*plaː <sup>A</sup>	/paː <sup>1</sup> /	/plaː¹/	'fish'		
*ɓlɯən <sup>A</sup>	/bɣn¹/	/blian <sup>1</sup> /	'moon'		
*?aw <sup>A</sup>	/?aw <sup>1</sup> /	/?aw <sup>1</sup> /	'to take'		
*ɗam <sup>A</sup>	/dam <sup>1</sup> /	/ram <sup>1</sup> /	'black'		
	Data from Hudak (2008)				





### "Aberrant" tone 1

Gedney (1989) states that "aberrant" tone
 1 tends to occur on A1H etyma having initial /x-/ in White Thai.

White Tai	Saek	Gloss
/xim <sup>1</sup> /	/kim¹/	'needle'
/xɛn¹/	/keːnt¹/	'arm'
/xaw <sup>1</sup> /	/kaw <sup>1</sup> /	'horn'



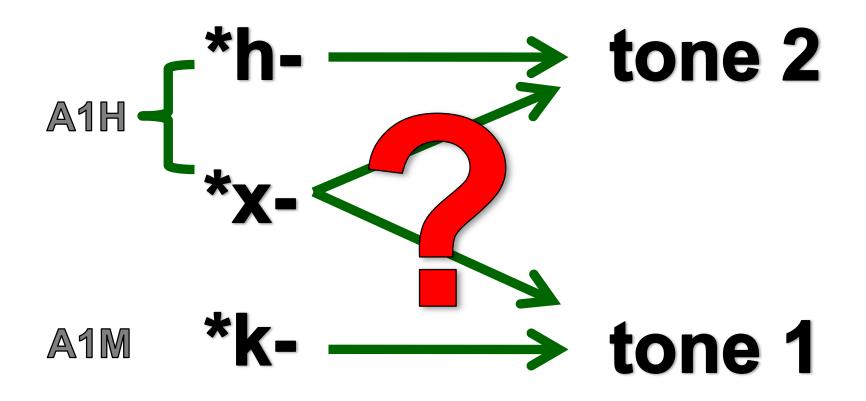
 However, certain A1H etyma with /x-/ in White Thai also show the expected tone 2.

White Tai	Saek	Gloss
/xεw <sup>1</sup> /	/heːw²/	'green'
/xiŋ¹/	/hiːŋ²/	'ginger'
/xan <sup>1</sup> /	/hal <sup>2</sup> /	'to crow'





### A conditioned split?





## **Chamberlain's phonetic explanation?**

- Chamberlain (1991: 108)
  - states that Saek words going back to PT \*k<sup>h</sup>-, \*f-,
    \*<sup>h</sup>r-, and \*<sup>h</sup>l- tends to have Tone 1.
  - speculates that the split may involves the pull on the larynx by palatal and velar consonants.





### PT uvular \*q-

- Gedney (1989) notes that the "regular" and "aberrant" tone 1s have different reflexes in Yay.
- Pittayaporn (2007) posits a distinctive uvular series in PSWT.
- Pittayaporn (2009) projects the distinction back to PT.





### "Regular" vs. "aberrant"

PSWT	Kapong	White Tai	Yay	Saek	Gloss
*x-/	•	/xiŋ¹/	•	/heːw²/ /hiːŋ²/ /hal²/	
*q-		/xɛn¹/	/cen <sup>1</sup> /	/kim <sup>1</sup> / /keːn <sup>1</sup> / /kaw <sup>1</sup> /	'arm'

Data from Hudak (2008) and Pittayaporn (fieldnote)





### Saek tone 1 as a result of contact

- Tone 1 is in fact expected for items going back to PT \*q-.
- Other A1H items with tone 1 are mostly loanwords
  - Lao/Thai:
  - Vietnamese:





Where did Saek acquire the set?

### Unique set of the twelve year names





### The twelve year names in Saek

- Saek has two sets of the twelve year names (Gedney 1993)
  - New set borrowed from Thai/Lao
  - Old set of unclear origin
- The old set is clearly related to the Yay set (< Chinese)





	New	Old
Rat	suət⁵	ti:6
Ox	sa <sup>6</sup> .luː <sup>1</sup>	t <sup>h</sup> riw <sup>3</sup>
Tiger	k <sup>h</sup> an:1	rɯn <sup>4</sup>
Rabbit	t <sup>ʰ</sup> ɔʔ⁴	mɛːw <sup>4</sup>
Dragon	ma <sup>6</sup> .loːŋ <sup>4</sup>	sin <sup>4</sup>
Snake	ma <sup>6</sup> .seŋ <sup>1</sup>	tiː <sup>5</sup>
Horse	ma <sup>6</sup> .miə⁴	<b>ŋɔ</b> ː <sup>5</sup>
Sheep	ma <sup>6</sup> .mɛː <sup>4</sup>	muj <sup>4</sup>
Monkey	vɔːk <sup>4</sup>	t <sup>հ</sup> rաn¹
Chicken	la <sup>6</sup> .kaː <sup>1</sup>	raw <sup>3</sup>
Dog	CJ:1	tut <sup>4</sup>
Pig	kun <sup>1</sup>	h۲ːj <sup>5</sup>





### Ultimate origin

- Boltz (1991) claims that the set was borrowed from Chinese in its entirety.
  - Borrowed from Chinese around AD 200 to 600
  - Vietnamese "flavors" but
  - "cannot have any direct relation to the Vietnamese borrowings (Boltz 1991: 60).



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	Character	Early Middle Chinese	Old Chinese	Vietnamese	Saek
Rat	子	tsi'/tsi'	*tsə?	tử / tý	ti:6
Ox	<del>]]:</del>	tr <sup>h</sup> uw'	*ůus	รửน	t <sup>h</sup> riw <sup>3</sup>
Tiger	寅	jin	*Gər	dần	rɯn <sup>4</sup>
Rabbit	卯	maɨw'/ mɛːw'	*m'ru?	mẹo/mão	mɛːw <sup>4</sup>
Dragon	辰	dzin	*dər	thin/thần	sin <sup>4</sup>
Snake	巳	zi'/zi'	*s-gə?	tį	ti:5
Horse	午	ŋວ'	*m.qʰˤaʔ	ŋọ	<b>ງວ</b> :5
Sheep	未	muj <sup>h</sup>	*mət-s	mùj/vị	muj <sup>4</sup>
Monkey	王	літ	*nəm	thân	t <sup>h</sup> rɯn¹
Chicken	西	juw'	*m.ru?	dầu	raw <sup>3</sup>
Dog	戌	swit	*s.mit	tuất	tut <sup>4</sup>
Pig	亥	γəj'	*gʻə?	hợi	hɣːj⁵





### **Vietnamese flavors**