

Saek as a not-so-aberrant Tai language



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Pittayawat Pittayaporn

Pittayawat.P@chula.ac.th

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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

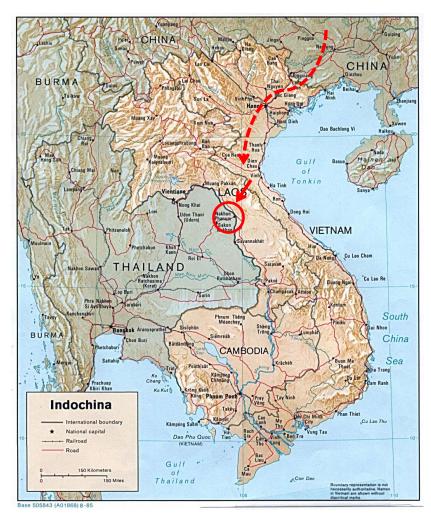
- First mentioned in late 19th and early 20th centuries
- Previously thought to be Mon-Khmer (e.g. Seidenfaden 1930)
- Recognized as Tai by Fraisse (1950) and Haudricourt (1958)





Distribution and history

- Spoken in NE Thailand, central Laos, and possibly central Vietnam.
- Arrived in Thailand in the early 19th 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
 - /pul¹/ 'body hair'
 - /p^hiəŋ⁴/ 'city'
 - /p^hiə⁵/ 'shirt'
- Rimes
 - /viː⁴/ 'fire' < PT *-yj
 - /γaj⁶/ 'feces' < PT *-ωj
 - /rain⁴/ 'house' < PT *-yin
 - /suak⁶/ 'elbow' < PT *-woːk

- Onsets/tone
 - /yam⁴/ 'bitter' < PT *Ç.k-
 - /ma²/ 'come' < PT *^hm-
 - /p^hal⁴/ 'to be' < PT *m.p-





Retentions in Saek

- PT clusters (cf. Haudricourt 1963)
 - *pr-:/p^hrak⁴/ 'vegetable', /p^hram²/ 'head hair',
 - *p.r-:/praːk⁶/'to be exposed', /preːk⁶/'broken'
 - *bl-:/blian¹/ 'moon', /bloːk⁶/ 'flower'
- PT *-l (cf. Gedney 1993)
 - *-el : /mlεl⁴/ 'body louse', /nεl⁶/ 'civet'
 - *-al : /ɣal⁴/ 'dike', /hal²/ 'to crow'



"Abberrancies" in Saek

- Correspondences to PSWT *d-
 - /d-/: /di¹/ 'good', /dam¹/ 'to smell'
 - /r-/:/rip⁴/'raw',/rok⁶/'catfish'
 - /tl-/:/truəl¹/ 'earthworm', /tram¹/ 'to transplant'
- Viewed as divergent outcomes of cluster resolutions by Pittayaporn (2009), i.e.
 - *d- vs. *Ç.d- vs. *t.n-





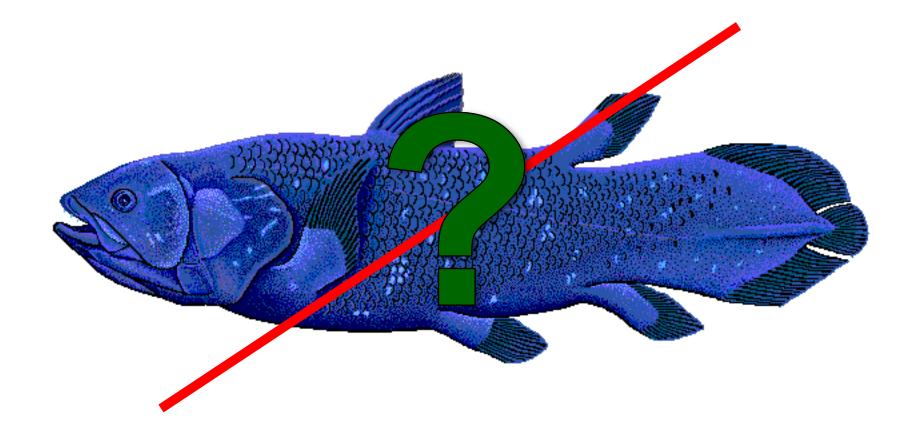
"Abberrancies" in Saek (cont.)

- Multiple correspondences of Saek /j-/
 - Saek /j-/ ~ PSWT *j-, *[?]j-, *z-, and *_J-
 - 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
 - /thriw³/ 'year of the ox', /run⁴/ '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 ^B *jaːn ^A	/jaː ⁵ / 'grandmother' /jaːl ⁴ / 'slack'
*°j-	*'jiəp ^D *'juː ^A	/jiəp ⁶ / 'to step on' /juː ⁶ / 'to be at'
*z-	*zak ^D *zaj ^A	/jak ⁶ / 'to wash (clothes)' /jaj ⁴ / 'fish trap'
* j -	*juː ^C *jaːj ^A	/juː ⁶ / 'lover' /jaːj ⁴ / 'eave'





Known developments

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

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



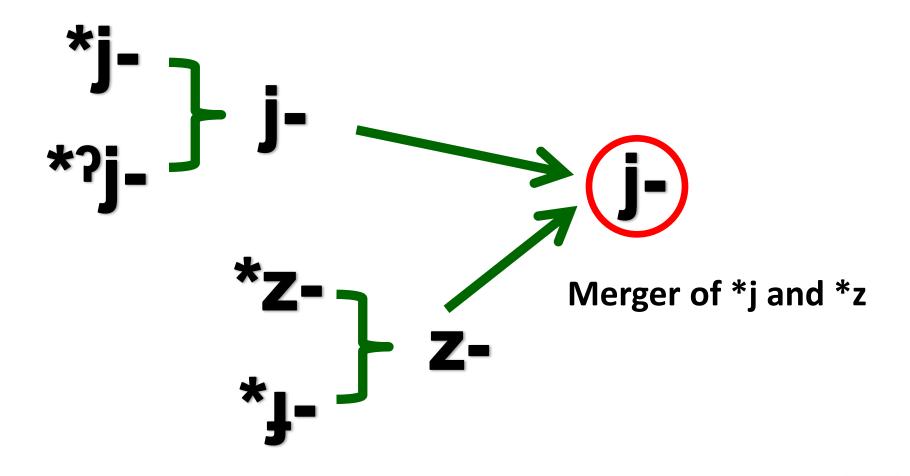
 Some etyma has reflexes *z- in all NT but *jin SWT (Li 1977; Kosaka 1992; Pittayaporn 2009)

	White Tai	Yay	Saek	Gloss
*Z-	/sɯ ⁵ /	/θο ⁵ /	/jɔː ⁵ /	'straight'
	/sak ⁴ /	/θak ¹ /	/jak ⁶ /	'to wash'
*j-	/caːŋ ⁶ /	/saːŋ ⁶ /	/saːŋ ⁶ /	ʻelephant'
	/cɯ ⁵ /	/so ⁶ /	/sɔː ⁶ /	ʻmorning'
Z-~ J -	/cu ⁶ /	/ju ⁶ / /θaːj ⁴ /	/juː ⁶ / /jaːj ⁴ /	'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.
 - /yal⁴/ 'grandmother' < PT *yal^A
 - /vi⁴/ 'grandmother' < PT *wi^A
- 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^h-, *t^h-, *c^h-, *k^h-
 - Voiceless fricatives: *f-, *s-, *x-, *h-
 - Voiceless nasals: *^hm-, *^hn-, *^hŋ-, *^hŋ-
 - Voiceless liquids and glides: *^hw-, *^hl-, *^hr-





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 ^A	/θaːw¹/	/saːw²/	'unmarried woman'
* ^h m	* ^h maː ^A	/maː¹/	/maː²/	'dog'
* ^h r	* ^h raːw ^A	/haːw¹/	/raːw ² /	'to yawn'
* ^h W	* ^h waːn ^A	/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 ^A	/kaː¹/	/kaː¹/	'crow'		
*plaː ^A	/paː ¹ /	/plaː¹/	'fish'		
*ɓlɯən ^A	/bɣn¹/	/blian ¹ /	'moon'		
*?aw ^A	/?aw ¹ /	/?aw ¹ /	'to take'		
*ɗam ^A	/dam ¹ /	/ram ¹ /	'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 ¹ /	/kim¹/	'needle'
/xɛn¹/	/keːnt¹/	'arm'
/xaw ¹ /	/kaw ¹ /	'horn'



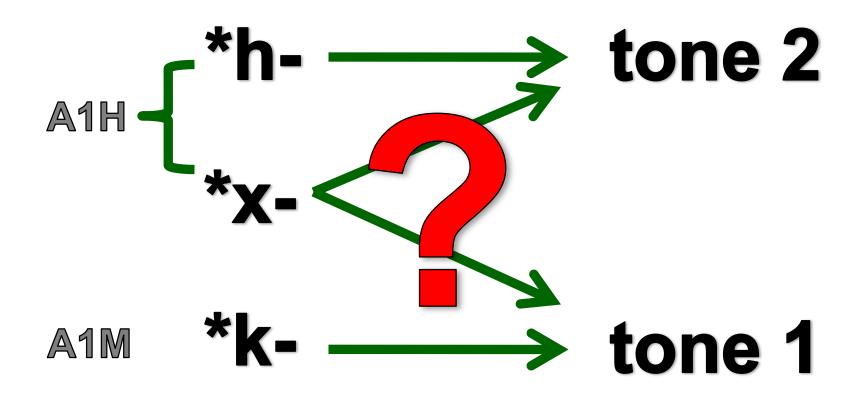
 However, certain A1H etyma with /x-/ in White Thai also show the expected tone 2.

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





A conditioned split?





Chamberlain's phonetic explanation?

- Chamberlain (1991: 108)
 - states that Saek words going back to PT *k^h-, *f-,
 *^hr-, and *^hl- 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 ¹ /	/kim ¹ / /keːn ¹ / /kaw ¹ /	'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 ⁶ .luː ¹	t ^h riw ³
Tiger	k ^h an:1	rɯn ⁴
Rabbit	t ^ʰ ɔʔ⁴	mɛːw ⁴
Dragon	ma ⁶ .loːŋ ⁴	sin ⁴
Snake	ma ⁶ .seŋ ¹	tiː ⁵
Horse	ma ⁶ .miə⁴	ŋɔ ː ⁵
Sheep	ma ⁶ .mɛː ⁴	muj ⁴
Monkey	vɔːk ⁴	t ^հ rաn¹
Chicken	la ⁶ .kaː ¹	raw ³
Dog	CJ:1	tut ⁴
Pig	kun ¹	h۲ːj ⁵





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).



Pillar of the Kingdom



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





Vietnamese flavors