The genetic relationship between the Thai language of Sukhothai and Ayutthaya

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Medieval Tai languages

Kingdoms	Oldest inscriptions	Dates
Sukhothai	Bang Sanuk Inscription	1339
Ayutthaya	Tin Inscription of Wat Maha That	1374
Lan Na	Lan Thong Kham Inscription	1376
Lan Xang	Nang An Inscription	14th century
Ahom	Sadiya Snake-Pillar Inscription	1497-1537

Bang Sanuk Inscription (1339)

ດລະວານທີ່ຈຳລັດສາກສາວອນແທນມາດເວັ ດເຂົ້າງວັນວິທາງງອບລອບພວຍລາຍ อานาคยต่อยต่อย่านและ ក្រារជំអ្នកឧដ្ឋភ័ឌបានជាមួយ វារបារបារាលិលសូវភាព หมู่สาแล้วผีรเหล่ววให้ดี เข้าว มีน้ำมาแสาเดือนเฮดชียดร์ ົກພົດເດັດທ່ານກໍແລໃຈແຜ່ດີບ້ານແລວລື ກາຍທ່າງເດືອບບໍ່ມີສະຫຼອງກາງແທ ດວຍແລວງແພວນອຸດປະກາດ **ບາລອບກຸດໃນເຈົ້າ**ກຳະຍວນ ຄວອຫຮັບໃນທົ່ອາບິດລວນັ້ງ ໄຫຍ່ນາຍລາວ ອີບນາ ແລ້າເນັ່ນດາ

จารึกวัดบางสนุก

Tin Inscription of Wat Maha That (1374)

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Sukhothai and Ayutthaya

1238 AD

The first king of Sukhothai King Sri Indraditya began the Phra Ruang Dynasty

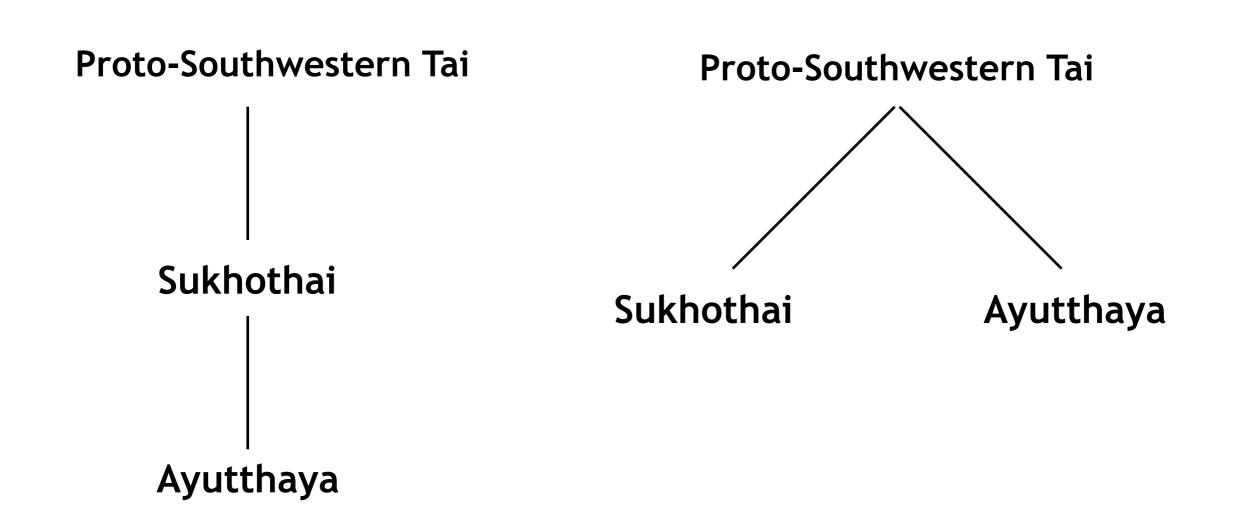
1438 AD Merger into Ayuthaya Kingdom

1350 AD

The first king of Ayutthaya King Ramathibodi I began the Uthong Dynasty

1767 AD The fall of Ayutthaya Kingdom

Mother-Daughter or Cousins?



Proposal

- The Thai varieties attested in Sukhothai and Ayutthaya inscriptions are in fact the same language
 - Shared phonological innovations
 - Shared chronology

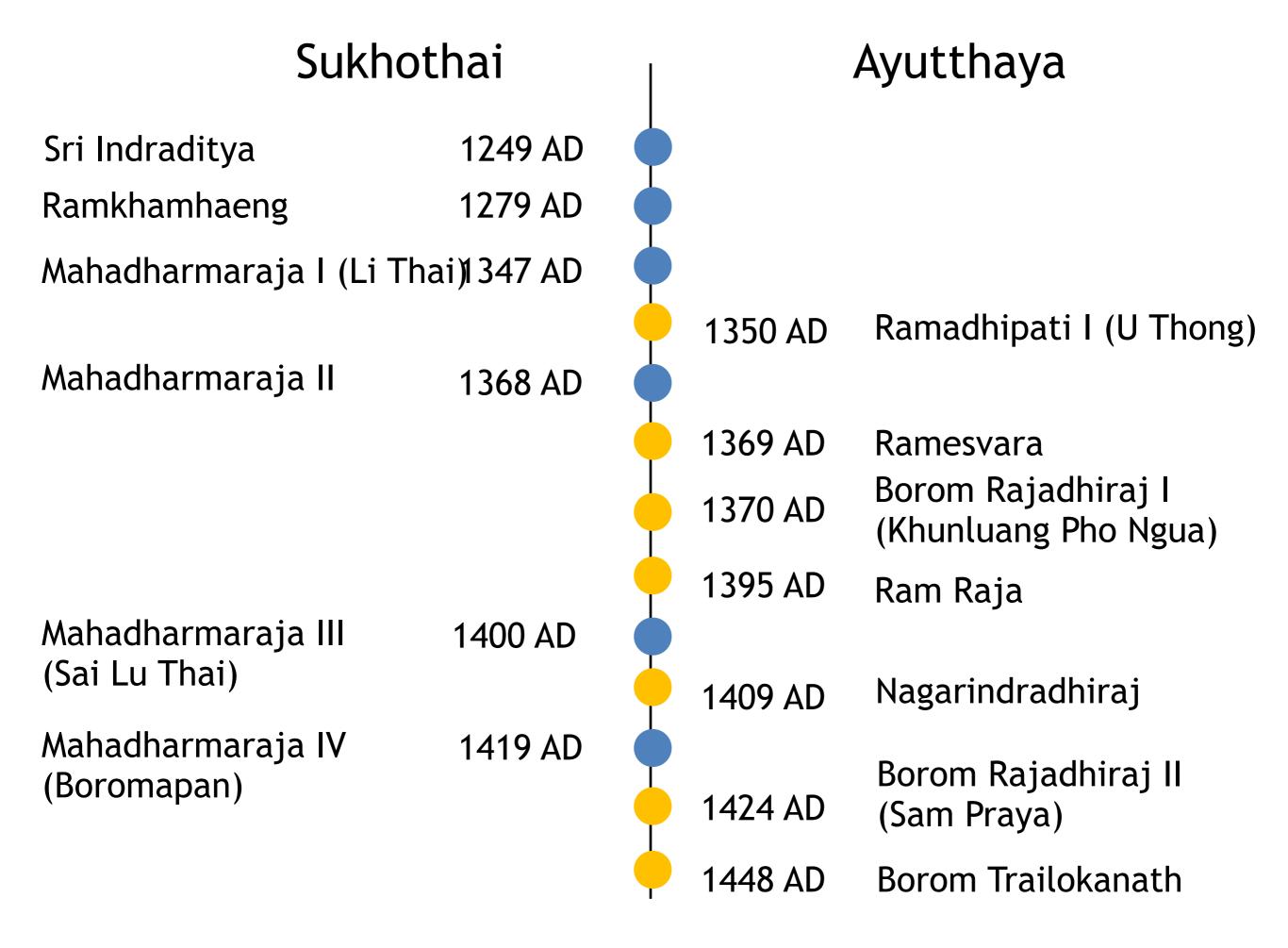
Outline

- Historical background
- Previous phonological study of Sukhothai Thai (SKT) and Ayutthaya Thai (AYT)
- Early phonological innovations
- Later innovations
- SKT-AYT as Old Thai

Historical background

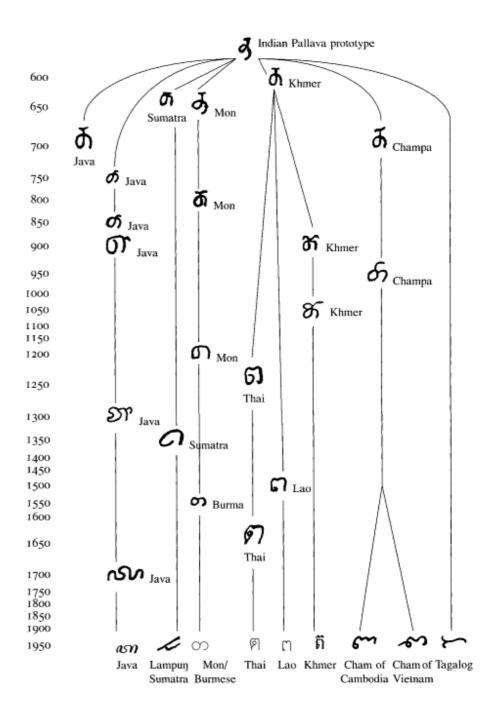
Foundation of Sukhothai and Ayutthaya

- SWT speakers must have arrived in present-day Thailand by the middle of the 12th century as attested by bas-reliefs in Angkor Wat (Coedès 1968; Phumisak 1976)
- A coalition of Thai chieftains took control of Sukhothai around 1249
- The foundation of the Ayutthaya kingdom is traditionally dated to 1350
- Unknown where the first Thai rulers of Sukhothai and Ayutthaya came from
- After 1361 Sukhothai was under Ayutthaya's control until its annexation in 1438



Origin of Thai writing

- Abugida belonging to the Indic family of writing system
- Adapted from Old Khmer script perhaps in the 13th century
- Claimed to be an invention of King Ramkhamhaeng, based on the controversial Inscription I (1292?)



Early Thai inscriptions

	Sukhothai	Ayutthaya	
Distribution	Upper Chao Phraya River basin	Lower Chao Phraya River basin	
Material	Sand stone, slate, tin, copper, gold, silver		
Date	1339-1463	1350-1448	

Early Thai inscriptions

Sukhothai		Ayutthaya	
Language	Thai, Pali, Khmer	Thai, Pali	
Script	Thai, Khmer, Tham	Thai, Khmer, Tham	
Content	Oath, dededication, donation, wish, creation of religious objects, description of events	Donation, wish, creation of religious objects, description of events	

ມ ດຈາກອາທ ແລະ ເມ ທີ ເງເລີຍແ ແນ ວິດອາກຳຕຳລາ ແລະ ແມ ແລະ ແມ ອດທອກສຸບະນົແສດພາດກະລິອດກອບບົ້ແກສາແດນພາດການກາເນື້ອ ເລວຍກອງແພນອອກ ເອເມສາລູ ເອເມສາລີເຮັດ ວບແປວທາງອ wr ດາ ທອງຫລາວວuu ເປັນ ນັດກາງຫ້ວuu ນີ້ ແລ້ ທີ່ ລ ມີ ເໝື່ອຄາກ ຄວງກ ບລ້ອວເກີລຫເກລຸຍ ລາເກົ່າທີ່ອ່ອບແບລລາເກອກີເລດເປັນເຫວ ເປັນທາດກ ໃຈອິນອິດຮີລະບານອາມາກສະມາສະການທີ່ແຜນປະ ຄຮິ້ເດັບບານກາວອັນ นนึบาลกับบินาณิเบื้ออนดรจนิขึ้นนั่นพระบบทหาออนนมิเวิ่มาอุธนน

Nakhon Chum Inscription (1357) -- Sukhothai

เราซิย์ใหนงอาในคลอาซานน์แจลและกิอาป์จุตาลุทอาญิค ตระเร้า สนดว ลีบุ: 10 เกลิ เป็นกลุยเกณจนกร์ เพลายามียงนิเภาอาใอโล 2/ กาสน น เมิน รุพนัก ลกการปุลลิพิษาลาลากาๆ ลุตกลารอยานๆ จิตก เลือาทา้หลายามิลิตร์นิกาโล ซไลสนุรีพน้ ฟ ทา้งคือนงปลุก พรรศิจน กทาง/พาลลาทารรูใหาใด กรสน รุณาอน เชพนสลาลลาการ/พาสก บาสีภาพรุ่หาสายงใสใดลู เอง กาง เร เกษเกล

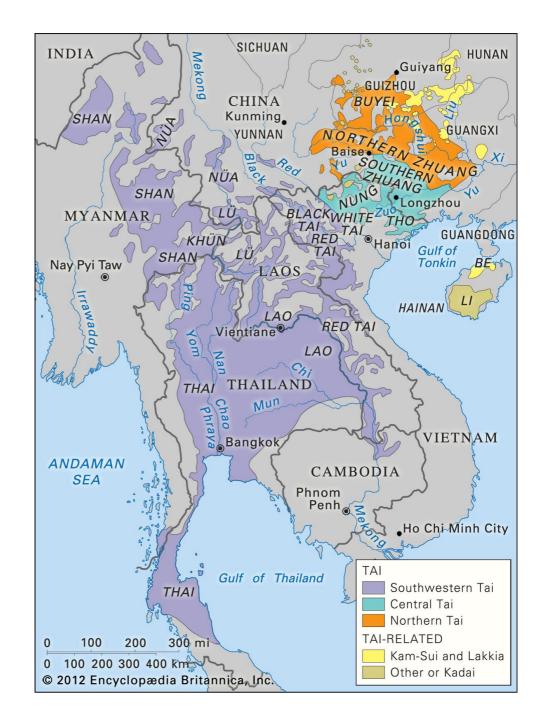
Wat Song Khop Inscription III (1433) -- Ayutthaya

	Sukhothai	Ayutthaya
<k></k>	ମ ମ	ฤภ ฤก
<g></g>	ଜ	60
< n >	ງ ງ	5 9 9
<n></n>	35 35	2020
<p'></p'>	<u>ن</u> ک	むりつつ
<a>	30	0000
<i>></i>	ର ଚ	0000
<ī>	4 6 6	マイト
<ei></ei>	c ^ص	6-
<īey>	-28	6-25/
<į̇́ea>	6-9 6-9	6-96-8-06-0

Previous phonological study of Sukhothai Thai and Ayutthaya Thai

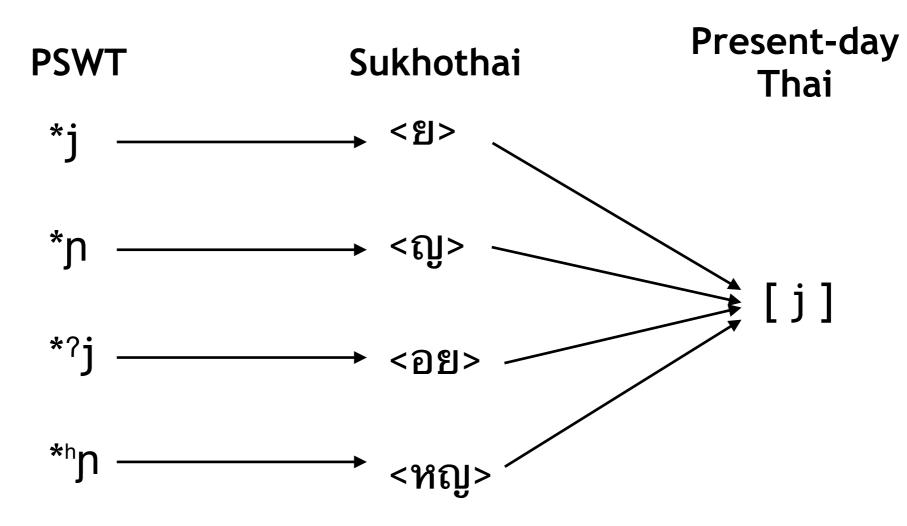
Medieval Thai as SWT

- Modern Thai belongs to the SWT subgroup of the Tai branch of the Kra-Dai language family
- Modern Thai is descendent of the language of Ayutthaya (Pittayaporn 2016)
- Thai speakers can read transliterated Medieval Thai texts if obsolete words are explained



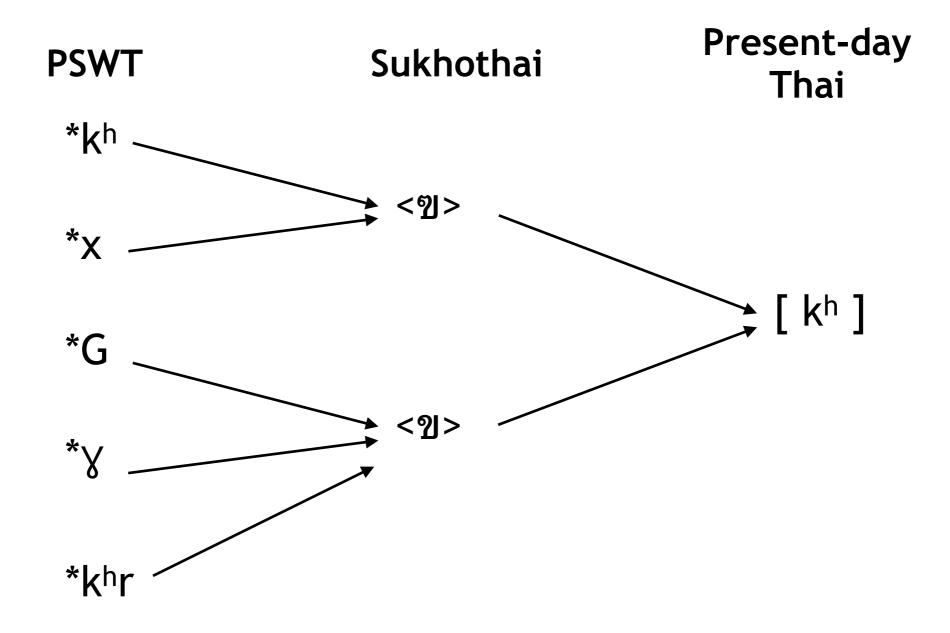
Known Sukhothai developments

 Retain the distinction of PSWT *j, *n, *?j, *n, which are all merged into [j] in Present-day Thai (Suwattee & Kullavanij 1976)



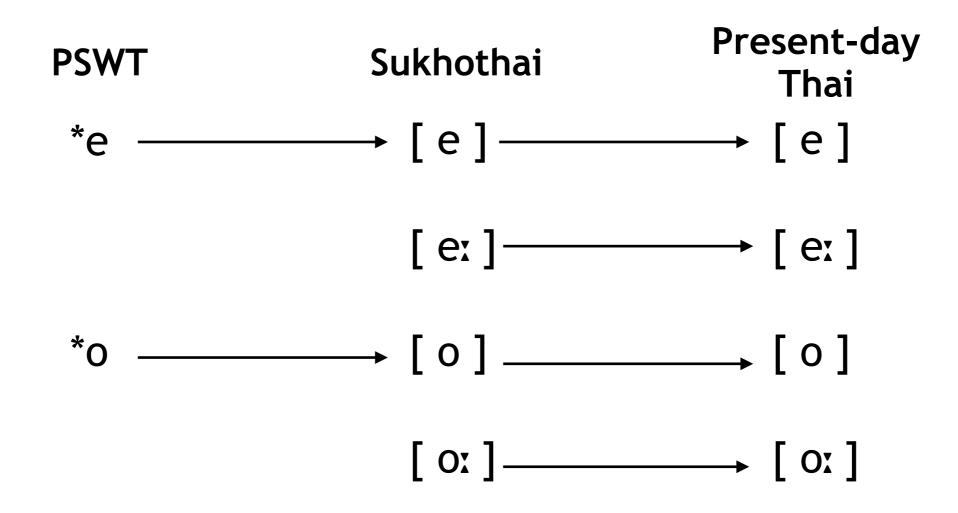
Known Sukhothai developments

• Velar consonants are merged (Diller 1988)



Known Sukhothai developments

 Creation of length distinction in high-mid vowels (Maspong 2016)



Linear view

- Most historical work on Thai assumes that Sukhothai is an earlier stage of Ayutthaya
- Linear development: Sukhothai > Ayutthaya > Bangkok
- The linear view adopts the periodization of Thai history according to the nationalist historiography
- Common in historical syntax, semantics, and stylistics, e.g. Kallavanijaya (2008), Jaratjarungkiat (2012), Takahashi (2012)

Cousin view

- An alternative view holds that Sukhothai and Ayutthaya belong to different subgroups
- First proposed by Brown (1965) on the basis of the comparative reconstructions of Modern Tai dialects.
- Adopted by work associated to the Tai dialectological tradition, e.g. Rod-in (1991), Rakpaet (1998)

Early phonological innovation

Shared innovations

- A shared-innovation is "the result of a change which took place in a single daughter language which then subsequently diversified into daughter languages of its own, each of which inherits the results of the change (Campbell 1998: 170)"
- A shared innovation is evidence for shared linguistic history
- If SKT and AYT belong to different subgroups, they must share a number of innovations

Data & analysis

- Inscriptional data from The Inscriptions in Thailand
 Database (<u>http://www.sac.or.th/databases/inscriptions/</u>)
- Graphs that are used interchangeably are assumed to represent the same sound
- Evidence for merger
 - A graph that correspond to multiple proto-phonemes
 - Previously distinct graphs that are later used interchangeably

Early phonological innovations

- Coalescence of *bl-
- Aspiration of *hr-
- Simplification of *k^hr-
- Occlusivization of primary *x-
- Velarization of uvular consonants

Coalescence of *bl-

- PSWT *b- and *d- are represented by and <t> respectively (reflecting Khmer implosivization)
- Words that go back to *bl- are spelled consistently with <t> both in Sukhothai and Ayutthaya inscriptions
- SKT and AYT share *bl- > d-, a change that predated the oldest inscription

***6**l-

	PSWT	SKT	AYT	Modern Thai
'month, moon'	* <mark>ɓl</mark> ɯən ^A	<tiean> <tīean> <tīean></tīean></tīean></tiean>	<tīean></tīean>	< <mark>t</mark> īean> /duən ¹ /
'flower'	* <mark>blo:k</mark> D	<tạk></tạk>	<tạk></tạk>	<tak> /dɔːk²/</tak>

Aspiration of *^hr-

- PSWT voiceless sonorants *^hm-, *^hn-, *^hn-,
- Words that go back to PSWT *^hr- are spelled consistently with <h-> both in Sukhothai and Ayutthaya inscriptions
- SKT and AYT share *hr->h-, which occurred before the the oldest attestation of Thai writing

*hr-

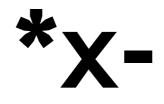
	PSWT	SKT	AYT	Modern Thai
'to see'	* ^h ran ^A	<hen></hen>	<hen></hen>	<hĕn> /hen⁵/</hĕn>
'six'	* ^h rok ^D	<hak></hak>	<hak></hak>	<hak> /hok²/</hak>
'head'	* ^h ruə ^A	<hvă></hvă>	<hvă></hvă>	<hvă> /huə⁵/</hvă>
'stone'	* ^h rin ^A	<hin></hin>	<hin></hin>	<hin> /hin⁵/</hin>

Simplification of *k^hr-

- Both SKT and AYT consistently represent PSWT *k^hr- with <kh->
- All other PSWT clusters are written with clusters
 - <plūk> for *pluxk^D 'to plant'
 - <grv> 'family' for *gruə^A 'family'
- SKT and AYT share $k^{h}r k^{h}$, which predated Thai writing

Occlusivization of primary *x-

- PSWT *x- is generally represented by <kh>, the grapheme for *kⁿ-
- Very few examples of <kh'> for *x- e.g.
 - <kh'wā> for *xwax^A 'right' in Inscription I (1835)
 - <kh'āw> for *xaːw^A 'white' in Wat Khema Inscription (2079)
- SKT and AYT share *x > k^h-, which predated Thai writing



	PSWT	SKT	AYT	Modern Thai
'white'	*xaːw ^A	<khāw></khāw>	<khāw> <kh'āw></kh'āw></khāw>	< <mark>kh</mark> āw> /kʰaːw⁵/
'green'	*xiəw ^A	<khyav></khyav>	-	< <mark>kh</mark> īeyv> /kʰaːw ⁵ /
'right'	*xwar ^A	<khwā> <kh'wā></kh'wā></khwā>	-	< <mark>kh</mark> wā> /kʰwaː⁵/
'to sing'	*xap ^D	< <mark>kh</mark> app>	-	< <mark>kh</mark> ăp> /kʰap²/

Velarization of *q- and *x-

- In general, PSWT *q- and *χ- are represented by <kh'>, esp. the first three sides of Inscription I (Diller 1991)
- SKT and AYT share *q-, *χ > x-, which predated Thai writing
- Started to be confused with <kh> early on

Occlusivization of secondary *x-

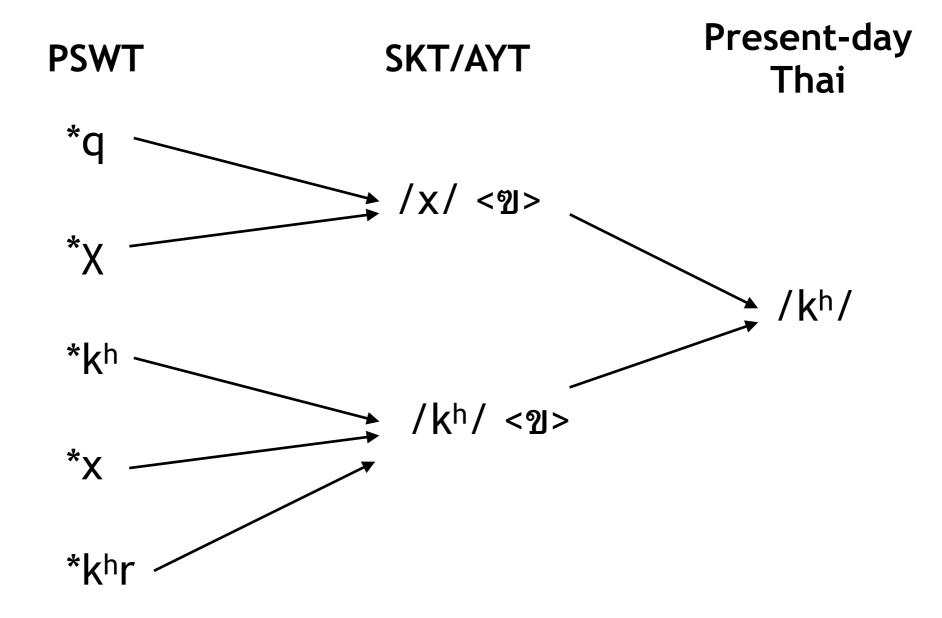
- The secondary /x/ that resulted from the merger between PSWT *q- and *χ are written as <kh> or <x> interchangeably in later inscriptions
- SKT and AYT share $*x > k^{h}$ -
 - Secondary /x/ started to be spelled with <kh> in the early 14th century
 - First attested in Sukhothai inscriptions in Chedi Phihan Inscription (1307 1357)
 - First attested in Ayutthaya inscriptions in Wat Songkhop Inscription I (1408)

*q- and *x-

	PSWT	SKT	AYT	Modern Thai
'to enter'	*xawC	<kh'au> <khau></khau></kh'au>	-	< <mark>kh</mark> au> /kʰaw³/
'to ascend'	*xɯːnC	<kh'īn> <khīn> <khin></khin></khīn></kh'īn>	< <mark>kh'</mark> īn> <khīn></khīn>	< <mark>kh</mark> in> /kʰɯn³/
'to be torn'	*qaːtD	<kh'āt> <khāt></khāt></kh'āt>	-	< <mark>kh</mark> āt> /kʰaːt²/

Development of dorsal obstruents

• Very similar to the pathway proposed by Diller (1988)



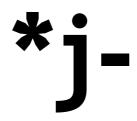
Later phonological innovation

Later phonological innovations

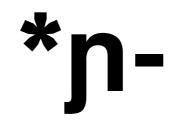
- Second occlusivization of x-
- Denasalization of *n-
- Deglottalization of *[?]j-
- Merger of *aj and *au

Denasalization of *n-

- In general, PSWT *j-, and *n- are represented by <y>, and <ñ> respectively, esp. in Inscription I (Suwattee & Kullavanij 1976)
- SKT and AYT share *n- > *j
 - PSWT *n- started to be spelled with <y-> in the mid 14th century
 - First attested in Sukhothai inscriptions in Phokhun Ramphon Inscription (1347 - 1357)
 - First attested in Ayutthaya inscriptions in Tin Inscription of Wat Maha That (1374)



	PSWT	SKT	AYT	Modern Thai
'grandmother'	*ja: ^B	<yā></yā>	<yā></yā>	< <mark>y</mark> ā> /jaː³/
'difficult'	*ja:k ^D	<yāk></yāk>	<yāk></yāk>	< <mark>y</mark> āk> /jaːk³/



		SKT	AYT	Modern Thai
'two'	*ɲi: ^B	<ñī> <yi></yi>	<yī> <yi></yi></yī>	< <mark>y</mark> ī> /jix ³ /
<pre>'highest point, tip; bud'</pre>	*ɲɔ:t ^D	<ñạt> <yạt></yạt>	<ñạt> <yạt></yạt>	< <mark>y</mark> ạt> /jɔ:t³/

Deglottalization of *[?]j-

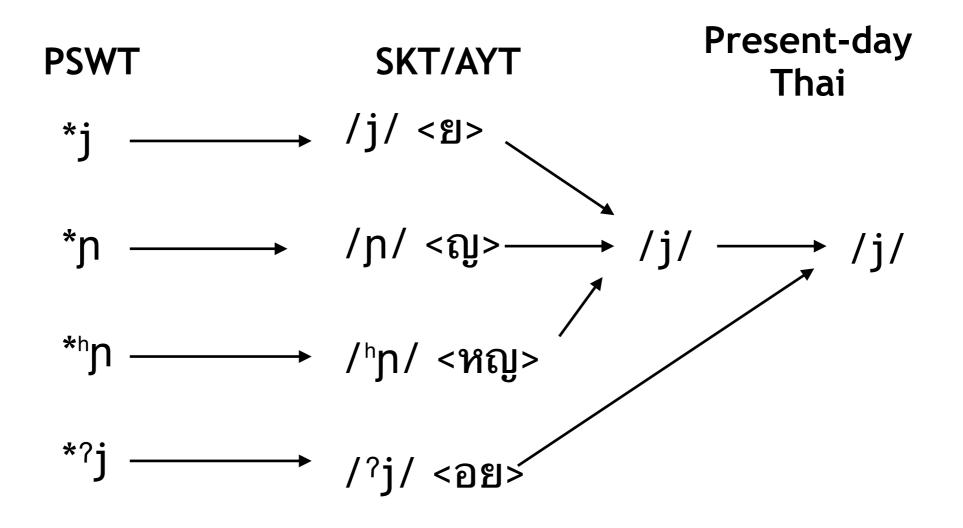
- In general, PSWT *[?]j- is represented by <hy>, esp. in Inscription I (Suwattee & Kullavanij 1976)
- Confusions of <hy-> with <y-> and <ñ->
 - PSWT *'j- started to be spelled with <y-> and <ñ-> in the early 15th century
 - First attested in Sukhothai inscriptions in Nakorn Chum Inscription (1457)
 - First attested in Ayutthaya inscriptions in Wat Songkhop Inscription III (1433)

*?j-

		SKT	AYT	Modern Thai
medicine'	* [?] ja: ^A	<ḥyā>	<ñā>	< <mark>y</mark> ā> /ja:1/
'to stand'	*²jɯ:n ^A	<ḥyīn> <yīn></yīn>	<ñin>	< <mark>y</mark> īn> /jɯːn¹/
'to stay'	* [?] ju: ^B	<ḥyū> <yū></yū>	<ḥyū>	< <mark>ḥy</mark> ū> /ju:²/

Known Sukhothai developments

 More refined pathway than Suwattee and Kullavanijaya (1976)



Merger of *-aj and *-aų

- In general, PSWT *-aj and *-aų are represented by <ai> and <ại> respectively (Bickner 1992)
- Confusions between <ai> and <ai>
 - <ai> and <ai> started to be used interchangeably in the mid 14th century
 - First attested in Sukhothai inscriptions in Wat Bang Sanuk Inscription (~1340)
 - First attested in Ayutthaya inscriptions in an inscription behind a buddha statue in National Museum in Wang Chankasem (1375)

*-aj

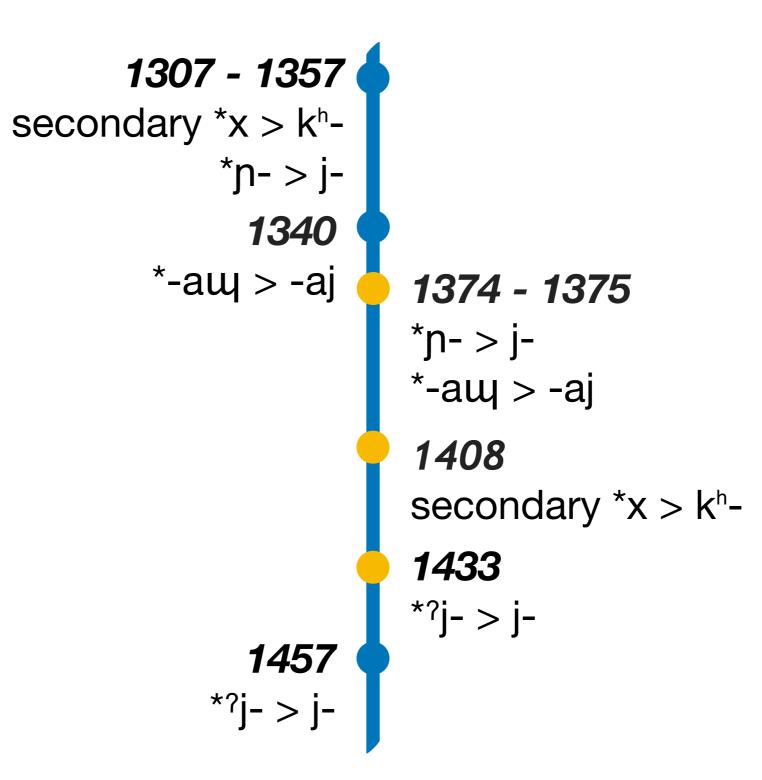
	SKT	AYT	Modern Thai
*?daj ^c 'can; to obtain'	< t ai> <ไ ด > < t ại> <ใ ด >	< t ai> <ไ ด > < t ại> <ใ ด >	< t ai> <ได้> / d aj³/
*waj ^c 'to put away'	<wai> <ไว> <wại> <ใว></wại></wai>	<wai> <ไว> <wại> <ใว></wại></wai>	<wai> <ไว้> /waj³/</wai>

*-aų

		SKT	AYT	Modern Thai
'in'	*daպ ^A	<nại> <nai></nai></nại>	<nại> <nai></nai></nại>	<nại> /naj¹/</nại>
'to put'	*saպ ^B	<sai> <sai></sai></sai>	<sai> <sai></sai></sai>	<sại> /saj²/</sại>

SKT and AYT as Old Thai

Chronology



Shared history

- SKT and AYT share nine phonological innovations
- Each innovation is attested at roughly the same time period in SKT and AYT
- Additional shared "aberrancies"
 - <hen> for /hen^A/ 'to see' instead of /han^A/ from *hran^A
 - <hñin'> for /^hnin^A/ 'woman' instead of /nin^A/ from *nin^A
 - <dam> or <kadam> for 'to do'

Old Thai

- From the point of view of phonological history, AKT and AYT are extremely closely-related dialects of the same language, namely Old Thai (OT)
- OT belongs to the Southern group of SWT with Lao and Southern Thai
- It was spoken in the Chao Phraya River basin from the 13th century to mid 15th century
- Devoicing of the PSWT voiced obstruents is taken to be its lower limit
- The only literary work that may have been composed in OT is Ongkan Chaeng Nam

Conclusion

Conclusion

- The Thai dialects of Sukhothai and Ayutthaya had identical phonological history
- They are neither mother and daughter, or cousins as has been previously assumed
- They are best characterised as extremely closely-related the same language
- The Thai language of the 13th to the mid 15th century can be labeled as "Old Thai"

