English Phonetics and Phonology

Lecture 5-2: English consonants in detail 2

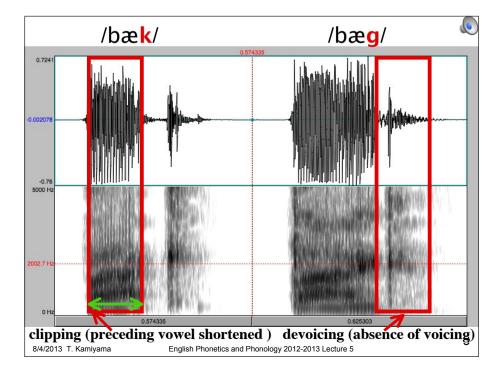
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Voiced and voiceless plosives: Word-final position

- Observe the consonant at the **end** of the following words:
- /bæ<mark>k</mark>/
- /bæg/
- Then compare them with the consonant at the beginning of the following words in French:
- /bak/ (« bac »)
- /bag/ (« bague »)

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Voiced and voiceless plosives: Word-final position

Clipping: shortening of the preceding vowel

- /bæk/
- [b<mark>æ</mark>k]

Devoicing (no clipping)

- /bæg/
- [bæɡ (or ɡُ)]

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N.B. Clipping and long/short vowels

What happens to the following words?

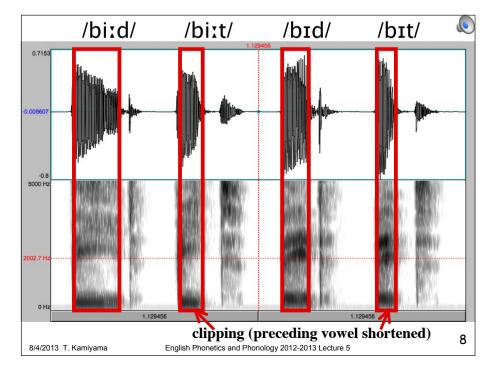
- /bitd/
- /bixt/
- /bɪd/
- /bɪt/

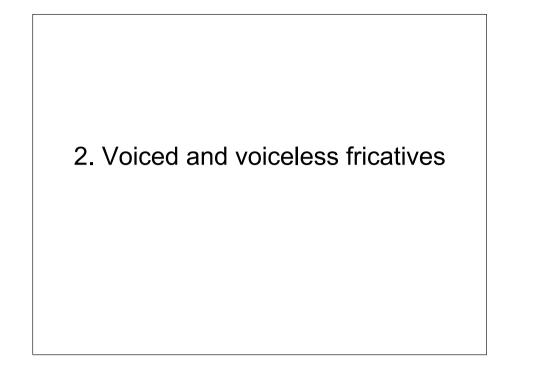
Voiced and voiceless plosives: Word-final position

- In English, voiced plosives /b d g/ are devoiced totally or partially in word-final position (especially in utterance-final position) [b d g (or g)], as in /bæg/ [bæg (or g)].
- But the explosion noise tends to be smaller than that of voiceless ones (*I*p t k*I*) in the same position.
- The preceding vowel is not clipped.

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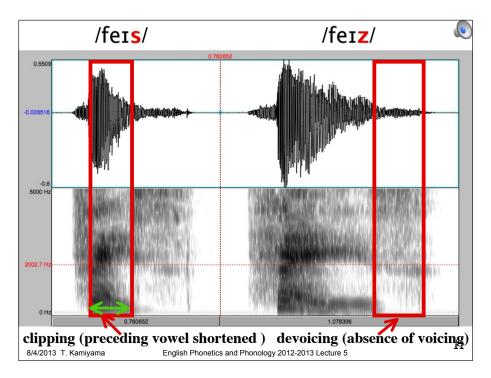
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Voiced and voiceless fricatives: Word-final position

- Observe the consonant at the **end** of the following words:
- /feɪ<mark>s</mark>/
- /feɪ**z**/
- Then compare them with the consonant at the beginning of the following words in French:
- /fas/ (« face »)
- /faz/ (« phase »)



Voiced and voiceless fricatives: Word-final position

Clipping: shortening of the preceding vowel

- /feis/
- [f<mark>eĭ</mark>s]

Devoicing (no clipping)

- /feɪz/
- [feɪ<mark>ẓ</mark>]

Voiced and voiceless fricatives: Word-final position

 In English, a vowel is clipped (shortened) when followed by a voiceless fricative (/f θ s *J*/) in the same syllable: /feis/ [feĭs].

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3 Voiced and voiceless affricates

3. Voiced and voiceless affricates

Voiced and voiceless fricatives: Word-final position

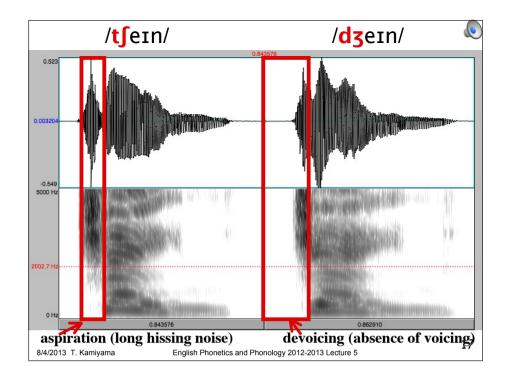
- In English, voiced plosives /v ð z ʒ/ are devoiced totally or partially in word-final position (especially in utterance-final position) [v ð z ʒ (or š)], as in /fe1z/ [fe1z].
- But they tend to be shorter, and the friction noise tends to be smaller than that of voiceless counterparts (/f θ s \int /) in the same position.
- The preceding vowel is not clipped.

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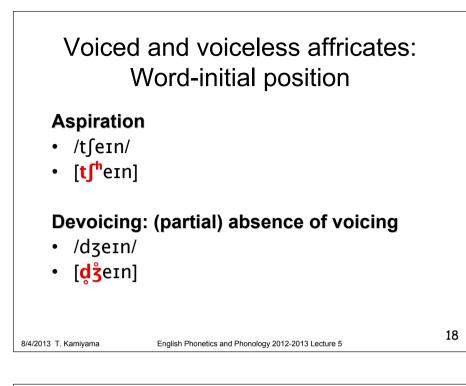
Voiced and voiceless affricates: Word-initial position

- Observe the consonant at the **beginning** of the following words:
- /t∫eɪn/
- /**dʒ**eɪn/



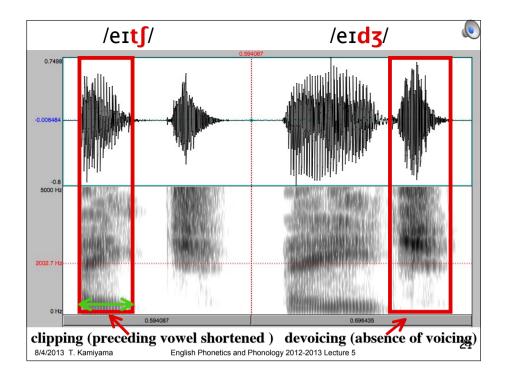
Voiced and voiceless affricates: Word-initial/medial position

- As in plosives, the voiceless affricate /t∫/ is aspirated [t∫^h], (/t∫eIn/ [t∫^heIn]).
- The voiced affricate /dʒ/ is totally or partially devoiced [dʒ] in word-initial position.



Voiced and voiceless affricates: Word-final position

- Observe the consonant at the **end** of the following words:
- /eɪ**tʃ**/
- /eɪ**dʒ**/



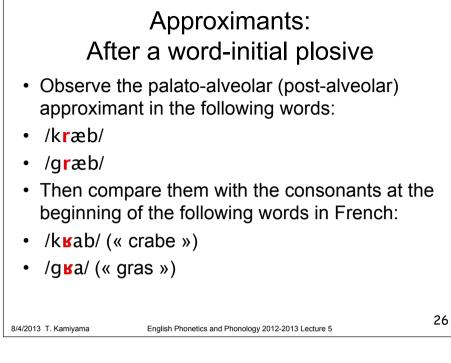
Voiced and voiceless affricates: Word-final position

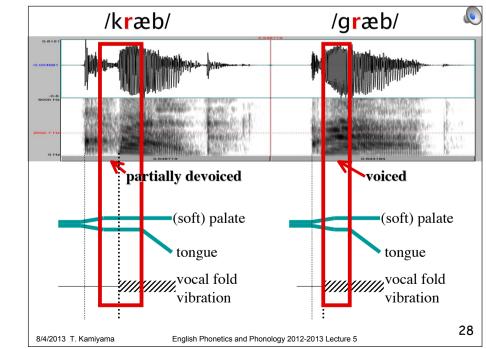
 As in plosives and fricatives, a vowel is clipped (shortened) when followed by a voiceless affricate /tʃ/ in the same syllable: /eɪtʃ/ [eĭtʃ]. Voiced and voiceless affricates: Word-final position
Clipping: shortening of the preceding vowel
/eɪtʃ/
[ertʃ]
Devoicing (no clipping)
/eɪdʒ/
[eɪdʒ]

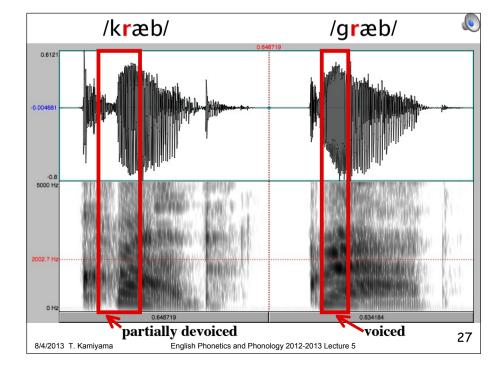
Voiced and voiceless fricatives: Word-final position

- As in plosives and fricatives, the voiced affricate /dʒ/ is devoiced totally or partially in word-final position (especially in utterance-final position) [dʒ], as in /eɪdʒ/ [eldʒ].
- But the friction noise tends to be smaller than that of the voiceless counterpart /t∫/ in the same position.
- The preceding vowel is not clipped.









Approximants: After a word-initial plosive

- Observe the lateral approximant in the following words:
- /klass/
- /glass/
- Then compare them with the consonants at the beginning of the following words in French:
- /klas/ (« classe »)
- /glas/ (« glace »)

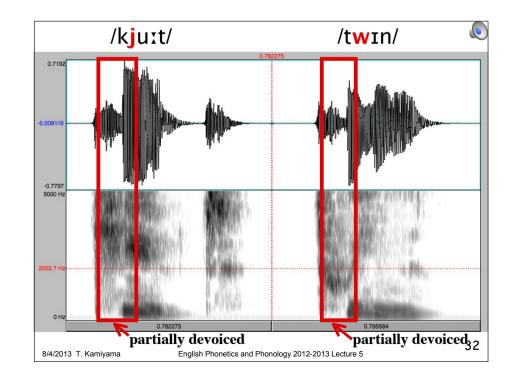
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Approximants: After a word-initial plosive

- Observe the approximants in the following words:
- /kjuːt/
- /t<mark>w</mark>in/

/klais/ /glais/



Approximants: After a voiceless plosive

In English, approximants /l r j w/ are often partially devoiced after a voiceless plosive, especially in a word-initial stressed syllable: [l r j w], as in /klass/ [kl as], /kræb/ [kræb], /kjust/ [kjust], /twsn/ [twsn].

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Summary							
	before / s /, after a plosive	after /S/	word- initial stressed	others	word- final		
/p t k tʃ/ voiceless plosives and affricate	no aspiration		strongly aspirated	aspirated	(prec. V) clipping		
/b d g dʒ/ voiced plosives and affricate			devoiced	can be devoiced	devoicing no clipping		
/f θ s \int / voiceless fricatives			voiceless		(prec. V) clipping		
/ v ð z ʒ / voiced fricatives			voiced		devoicing no clipping		
/l r j w/ approximants preceded by a plosive		and Dhanalage (1 7		34		
fricatives /l r j w/ approximants	English Phonetics and Phonology :		partially devoiced		devoicing no clippin		