- **Pitch accent: Phonetics**
- **Pitch accent: Phonology**
- **Working with OJAD**

Background:

- *Backhouse (1994), Ch 4 excerpt*
- *Pitch accent sound files*

0. Today's plan

- Checking in on your investigation of pitch accent in the assigned sound files

- A phonetic description of pitch accent

- Aspects of the phonology of pitch accent

- Using OJAD

0. Review and context

- Questions on any course topics?
  → Phonemes, moras?

  - Ask by voice or in "chat"

  - Contribute anonymous comments on the Anonymous Check-in padlet
    (See link on today's "Daily syllabus" page)

1. Pitch accent: Phonetics

Group discussion

- Based on the Backhouse (1994), Ch 4 reading:

    - What is **pitch accent** in Japanese?

    - How is it different from **stress** in English?

- Which of the words in the "Pitch accent" sound-file set have an audible pitch accent? Where is it?

1	*siro*	'white'
2	*kiiro*	'yellow'
3	*iro*	'color'
4	*momoiro*	'peach (color)'
5	*murasaki*	'purple'

1. Pitch accent: Phonetics

Debriefing

- Based on the Backhouse (1994), Ch 4 reading, what is **pitch accent** in Japanese?

1. Pitch accent: Phonetics

Debriefing

- Based on the Backhouse (1994), Ch 4 reading, what is **pitch accent** in Japanese?

    - p 29: "when there is a **drop in pitch** from higher to lower...the **last mora before the drop**...is heard as (lightly) accented..."

- How is it different from **word stress** in English?

1. Pitch accent: Phonetics

Debriefing

- What is **pitch accent** in Japanese?

    - A **drop in pitch** from high to low

- How is it different from **word stress** in English?

    - English word stress is indicated mainly by **duration** and **vowel quality** (full vs. reduced)

    - These attributes are *not* part of the Japanese pitch-accent system

        - Vowel length is independent of accent

        - Japanese vowels are never reduced to schwa

Debriefing

- Which of the words in the "Pitch accent" sound-file set have an audible pitch accent? Where is it?

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Debriefing

- Which of the words in the "Pitch accent" sound-file set have an audible pitch accent? Where is it?

1	**_si_**_ro_	'white'
2	_kiiro_	'yellow'
3	_iro_	'color'
4	_momoiro_	'peach (color)'
5	_mu**ra**saki_	'purple'

2. Pitch accent: Phonology

- Other characteristics of Standard Japanese pitch accent as described by Backhouse (1994)
    - with additional comments by me
  - Only **two levels** of pitch, low and high
    - Sentence-final intonational contours are separate

  - The first two moras of the word are always at different pitch levels
    - This is actually true not of words, but of **phrases**
    - "Always" is an overstatement — more on this later

  - There is **at most one** pitch accent in a word

2. Pitch accent: Phonology

- Here are some more examples

makura	'pillow'
tamago	'egg'
takara	'treasure'
sakana	'fish'
makura desu	'pillow COPULA.NONPAST.FORMAL'
tamago desu	'egg COPULA.NONPAST.FORMAL'
takara desu	'treasure COPULA.NONPAST.FORMAL'
sakana desu	'fish COPULA.NONPAST.FORMAL'

2. Pitch accent: Phonology

- Here are some more examples (**blue**=high pitch)

ma*kura*	'pillow'
*ta****ma****go*	'egg'
*taka****ra***	'treasure'
*saka****na***	'fish'

ma*kura desu*	'pillow COPULA.NONPAST.FORMAL'
*ta****ma****go desu*	'egg COPULA.NONPAST.FORMAL'
*taka****ra*** *desu*	'treasure COPULA.NONPAST.FORMAL'
*saka****na de****su*	'fish COPULA.NONPAST.FORMAL'

- Here are some more examples

hasi	'chopsticks'
hasi	'bridge'
hasi	'edge'
hasi-wa	'chopsticks-TOPIC'
hasi-wa	'bridge-TOPIC'
hasi-wa	'edge-TOPIC'

2. Pitch accent: Phonology

- Here are some more examples (**blue**=high pitch)

ha*si*	'chopsticks'
*ha****si***	'bridge'
*ha****si***	'edge'
ha*si-wa*	'chopsticks-TOPIC'
*ha****si****-wa*	'bridge-TOPIC'
*ha****si-wa***	'edge-TOPIC'

Group discussion

- We make a key distinction in linguistics between information that is:

    - **unpredictable** → **memorized** (stored in **lexicon**)
    - **predictable** → assigned by **mental grammar**

- Thinking back over

    - Backhouse's description of pitch accent
    - The examples we have just considered

Identify something about Japanese pitch accent that is **unpredictable** and something that is **predictable**

2. Pitch accent: Phonology

Debriefing

- What aspects of Japanese pitch accent are unpredictable? Predictable?

For discussion, see:

- Handout - "Pitch accent"

3. Using OJAD

- **OJAD** = **Online Japanese Accent Dictionary**
  - I will demo some features
  - You will have an opportunity to try it out
    - Go to: http://www.gavo.t.u-tokyo.ac.jp/ojad/

- Note that input must be in Japanese orthography
  - Hiragana works — you can use the class kana charts for most types of hiragana input
  - You can also use the JDIC dictionary to find a Japanese word from its English translation and then copy/paste it into OJAD

3. Using OJAD

- Some things to try using "Word Search"
  - Input *hasi* はし in Word Search box
    - Can you interpret the output? If not, what can help?

  - Input *taberu* 'to eat' たべる in Word Search box
    - Can you interpret the output?
    - We'll be talking more about verb forms later

  - Specify the textbook *Genki* (and clear the Word Search box) — what happens?

3. Using OJAD

- Some things to try using "Prosody Tutor Suzuki-kun"

  - Paste in this sentence (Japanese orthography only)
    好きな色は、何ですか？

    suki-na iro-wa, nan desu ka?
    like color-TOPIC, what COPULA.NONPAST.POLITE QUESTION
    'What is [your] favorite color?'

- What happens? How can we interpret this?

- Compare the computer-generated output to the recording of a human (in class)