Reading guide / discussion preview:

- **Eye movements in reading**

- **Extracting visual information from text**

Reading:

- Rayner, Pollatsek, Ashby, & Clifton (2012), Ch 4, "The work of the eyes"

0. Outline of class discussion next time

- What the eyes do during reading

- How visual information is extracted from text

- How "preview" information can facilitate the processing of words

Work through these prep slides and use them as:
  - A guide to see what to focus on in the reading
  - Preparation for discussion in class on Th

1. Basics of vision and eye movement

Define these terms

- **Fovea**

- **Parafovea**

- **Periphery**

1. Basics of vision and eye movement

Define these terms

Types of eye movement during reading:

- **Fixation**

- **Saccade** [səkɑd]

- **Regression**

- **Return sweep**

2. Measuring processing time

Prepare to discuss

- Why do researchers measure **fixation duration** on a word during reading? (What is this believed to be a measure of?)

- What are some ways of **measuring** fixation duration on a word?

3. Perceptual span

Find an answer to this question

- **How much** text **information** can be taken in during **one** fixation?

    Note:

    - The chapter talks a lot about how this **has been determined** experimentally
    - Our discussion will focus more on **how it works** / how it **matters in reading**

3. Perceptual span

Define these terms / prepare to discuss

- "Mutilated text" methodology

- Size of perceptual span

- What kind of info is used at what distance from fixation point? ("mutilated text" methodology)

Define these terms / prepare to discuss

- Newer methodology: the **boundary technique**
  - What are some important findings using this technique?

4. Information from preview

Define these terms / prepare to discuss

- **Preview benefit**

- What kind(s) of information is/are **activated** during parafoveal preview?