

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
- What this tells us about cognitive processes
- 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

Eye movement patterns during reading:

- **Fixation**
- **Saccade** [səkəd]
- **Regression**
- **Return sweep**

1. Basics of vision and eye movement

Define these terms — see p 108 (in this chapter), but also check p 9 (in an earlier chapter)

- **Fovea**
- **Parafovea**
- **Periphery**

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)

4. Information from preview

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?