

# PSYC 7014, Week 3 stats lab: Descriptive Stats

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For this homework we will be analyzing some of the data from a lexical decision task. A **lexical decision task** is an experimental procedure/method used in many psychology and psycholinguistics experiments. The basic procedure employed involved measuring how quickly people classified stimuli presented to participants visually (i.e., on a computer monitor) as either words or non-words. In short, are people able to recognize words or non-words faster.

## Part 1: Overall distribution

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1. Import the data file `LexicalDescisionData.txt` from the homework folder. Save it to an object called `LexData`.
2. Use the `describe()` function to gather info about mean, median, and sd of the reaction time data `LexData$ReactionTime`.
3. Create the following plots of reaction times from the entire distribution: histogram and boxplot.

## Part 2: Assessing by groups

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5. Use the `describeBy()` function to gather info about mean, median, and sd of the reaction time data `LexData$ReactionTime`, **for responses with Words v Non-words**.
6. Create a histogram for both the **Word** group and the **Non-word** group.

## Part 3: Your own data

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7. Repeat parts 1 and 2 with your own data.

