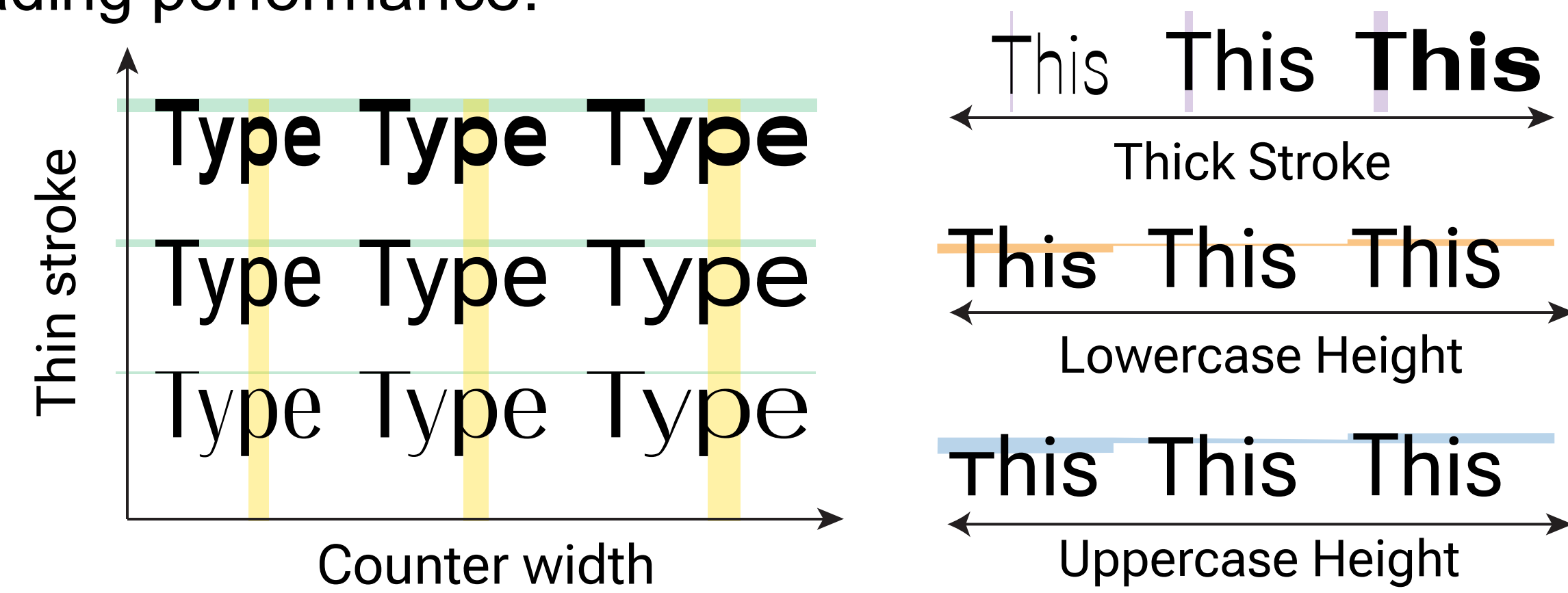


# What's your type? Effects of variable fonts on sentence-level reading

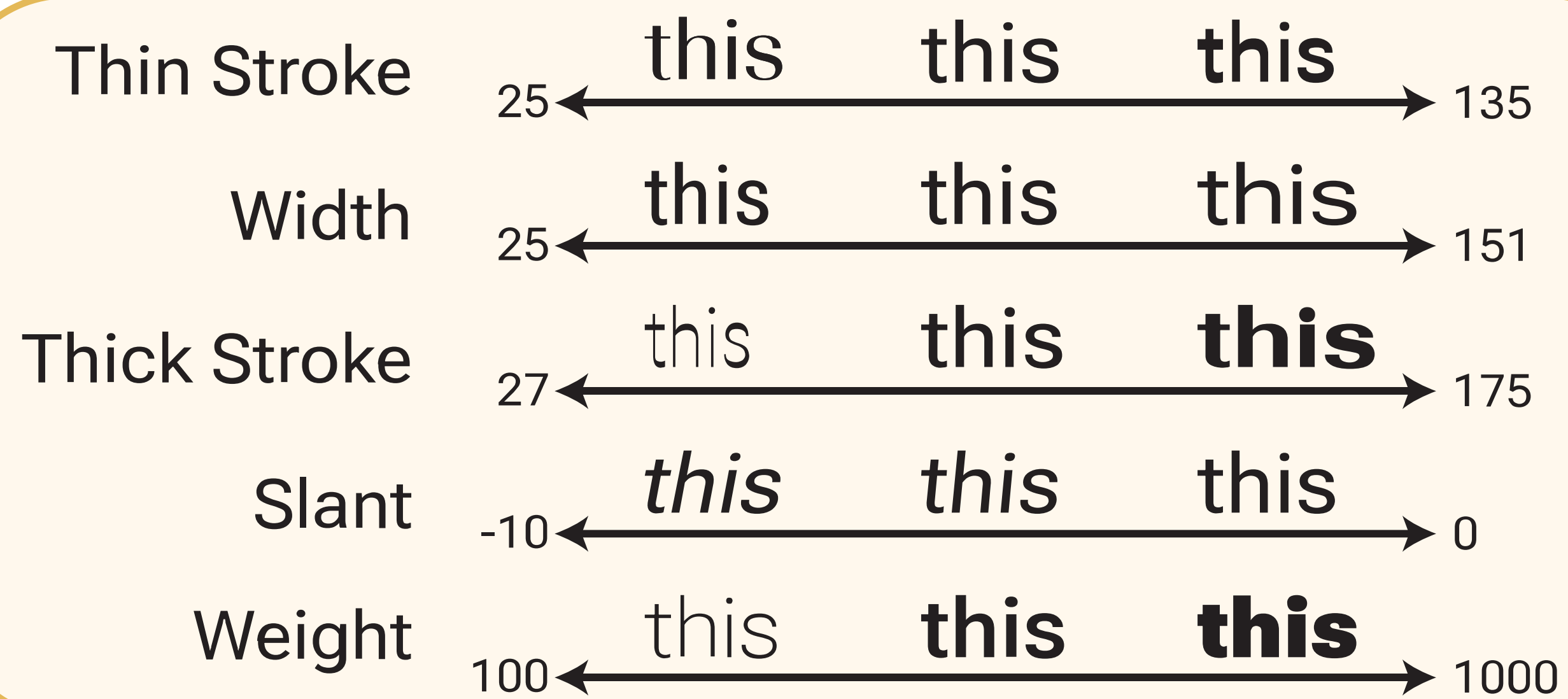
## Introduction

Variable fonts allow users to manipulate how text appears along many continuous axes. These continuous axes lend themselves to psychophysical techniques to investigate how they impact reading performance.

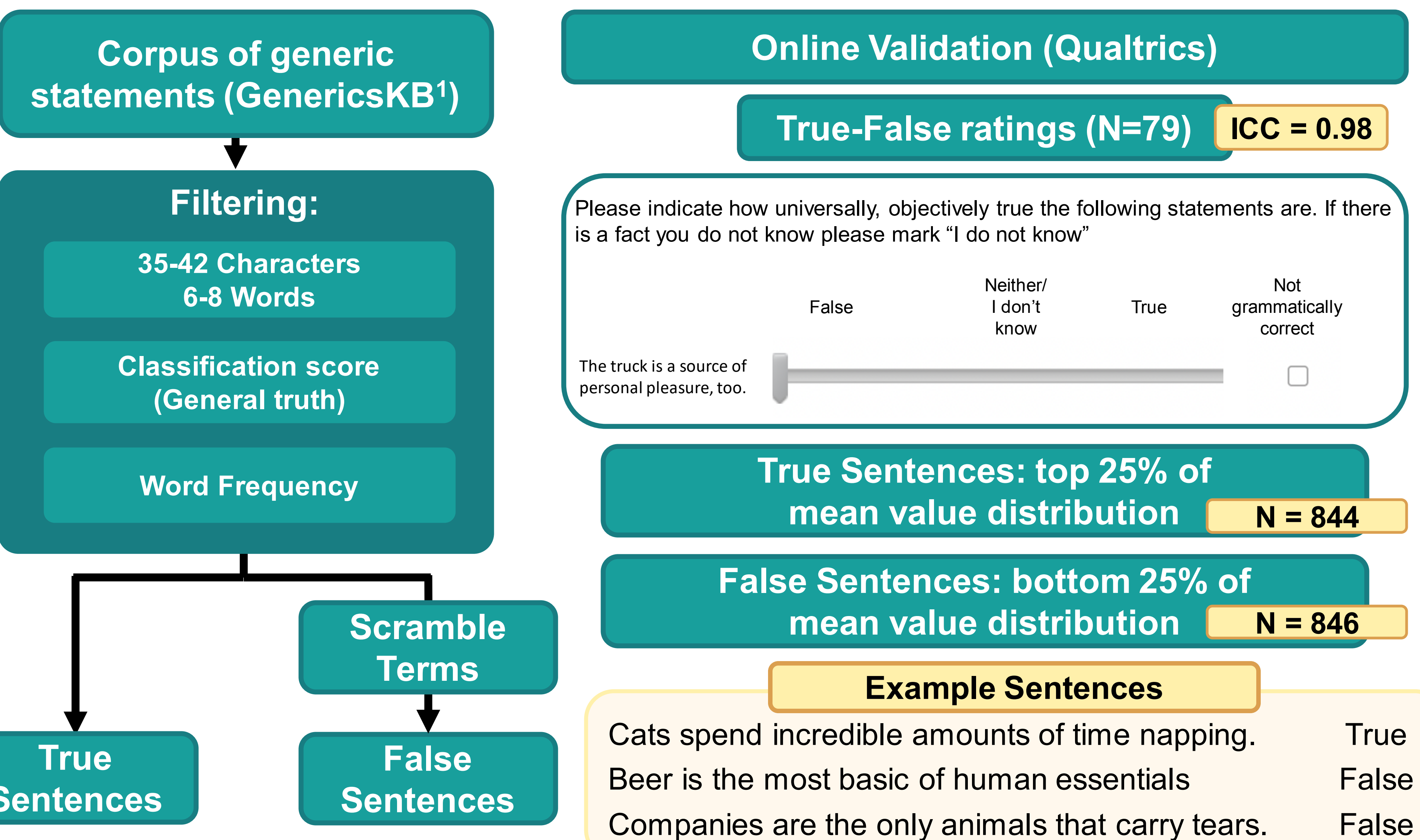


### Research Question

Which axes within a variable font have the largest effects on reading speed and gaze measures?

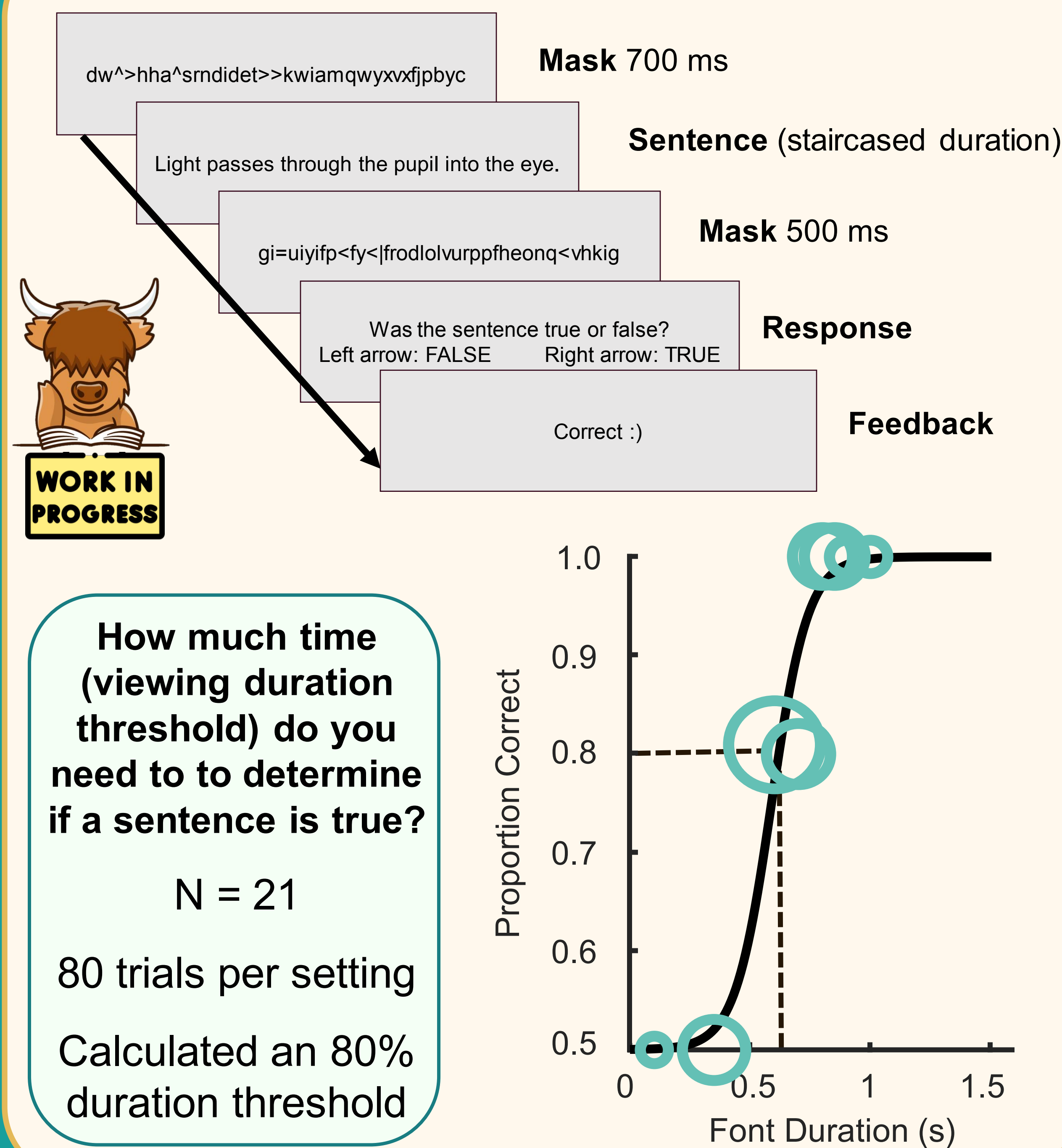


## Corpus Generation



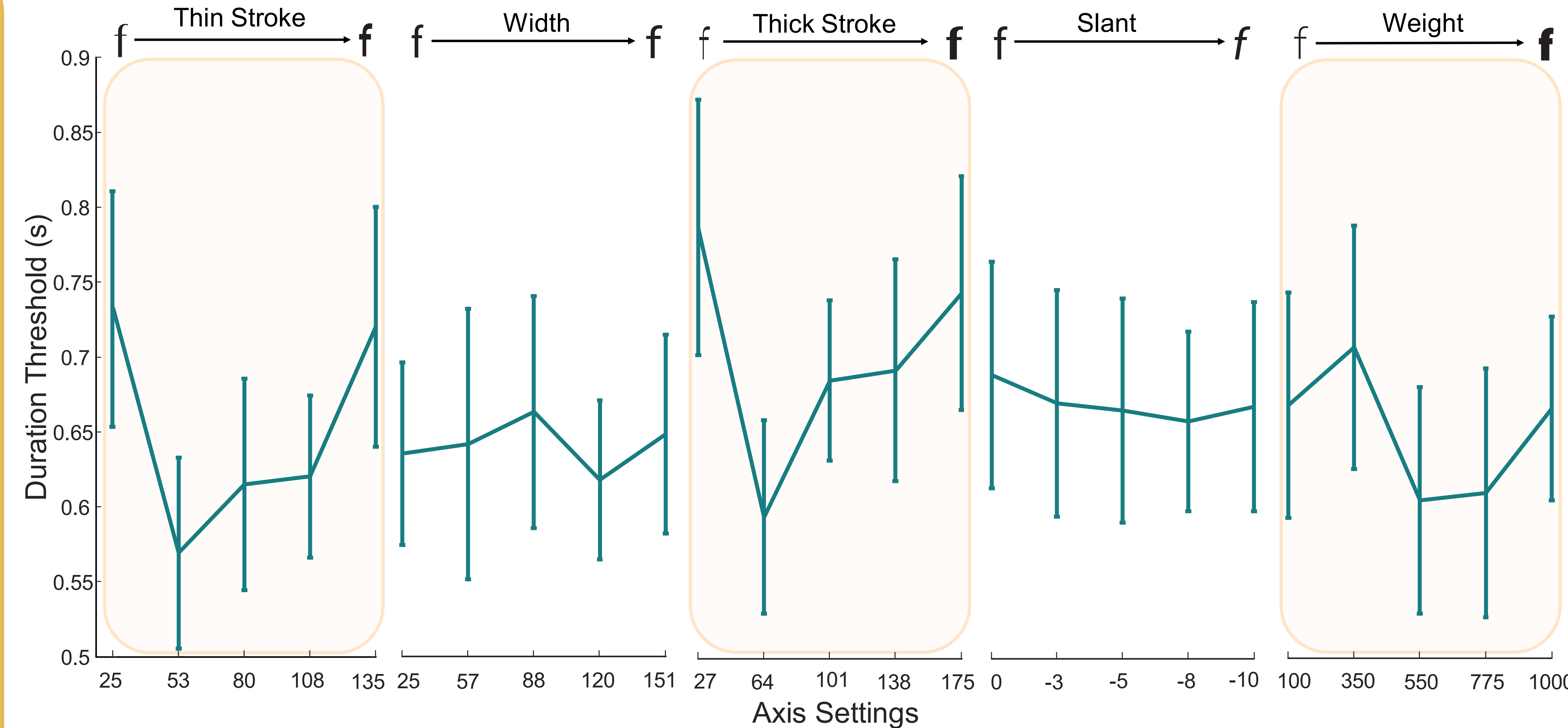
## Methods

x 5 Font Axes  
x5 Font Settings



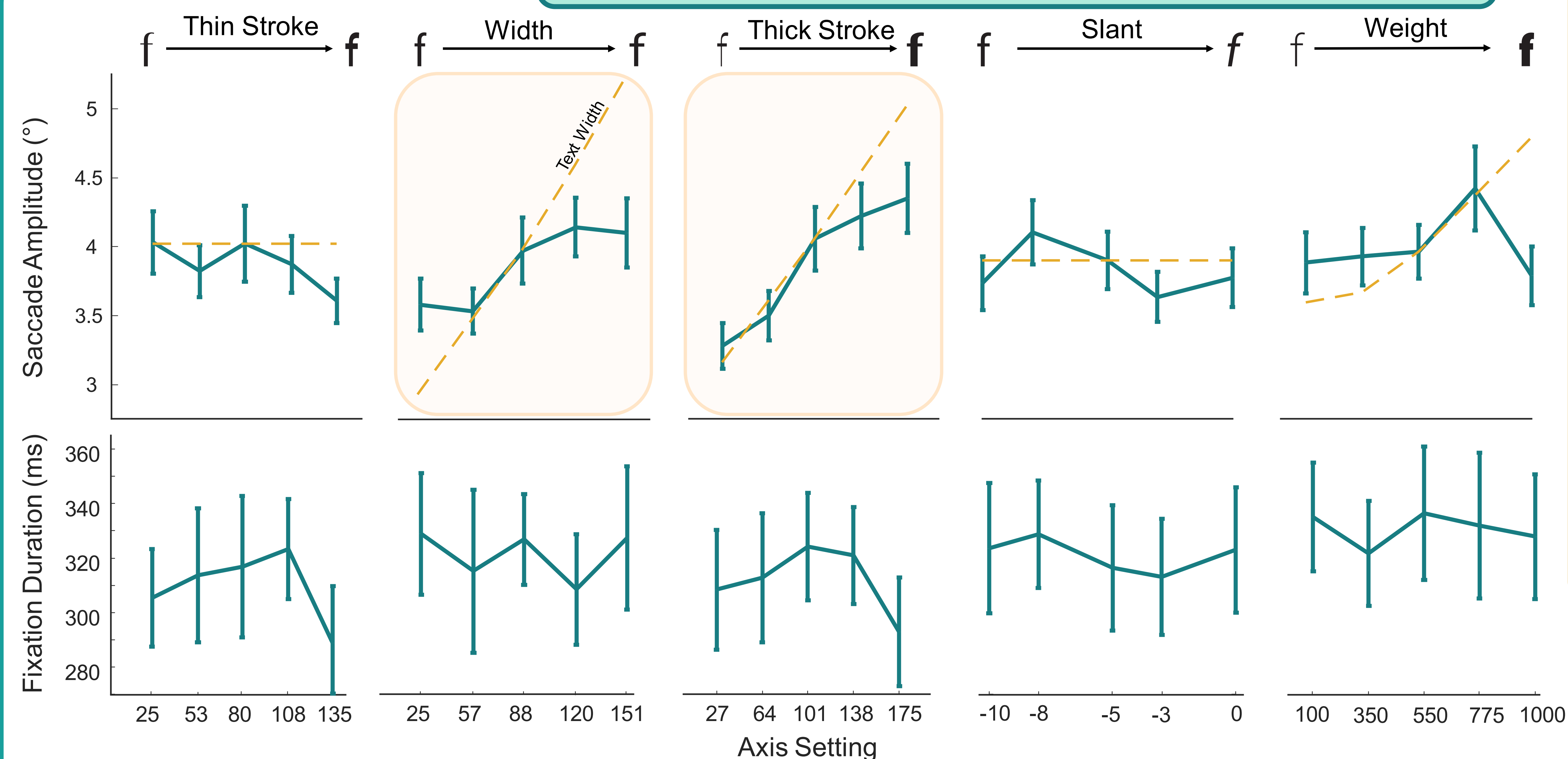
How much time (viewing duration threshold) do you need to determine if a sentence is true?  
N = 21  
80 trials per setting  
Calculated an 80% duration threshold

## Duration Thresholds



Extreme weight, thin stroke, and thick stroke manipulations all increase duration thresholds

## Eye Tracking Data



Individuals partially compensate for increased text width by increasing saccade amplitude

## Conclusions

Axes that change **stroke weight** have the largest impact on reading speed and saccade amplitude

Consistent with previous work showing extreme weight settings affect reading speed the most

Gaze behavior can partially compensate for changes in font width

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