Project #2 Proposal
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CIS4930 Human-Centered Input Recognition Algorithms
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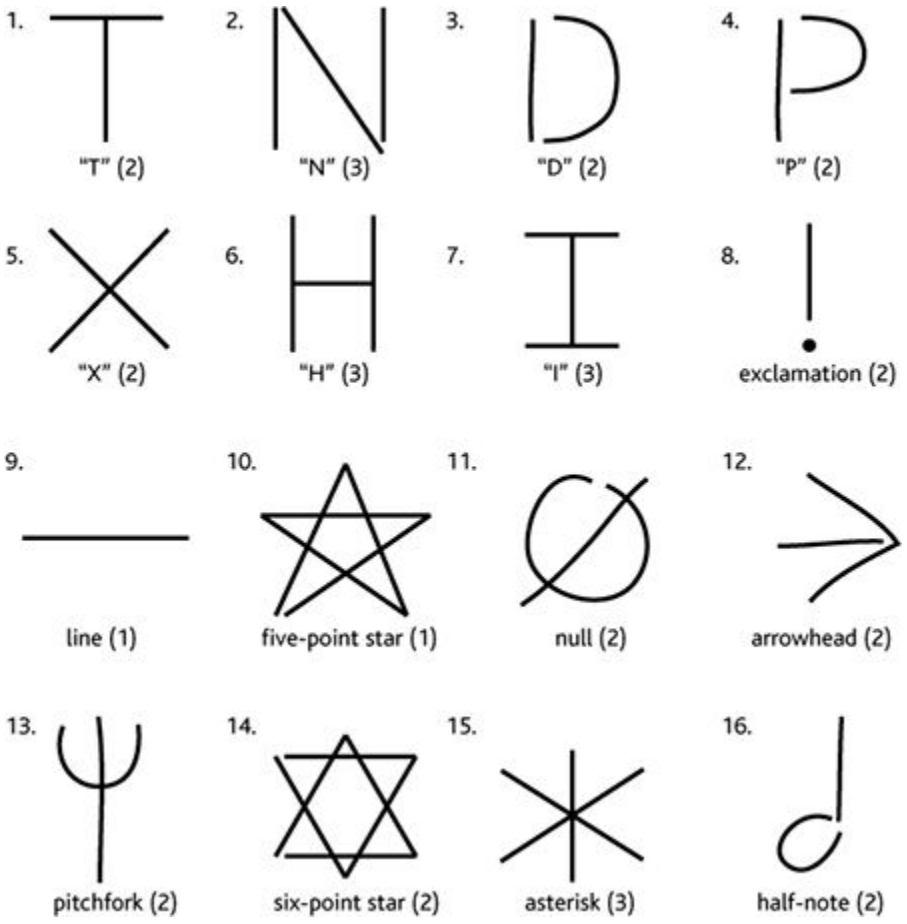
WHAT to extend?

- Project #1:
  - Algorithm: $1
  - Language: HTML/Javascript
  - Existing dataset: $1 Unistroke gestures [10 people]
  - New dataset: $1 Unistroke gestures [6 people]
  - Analysis: user-dependent recog. accuracy and GHOST heatmaps
- Project #2:
  - Algorithm: $N
  - Language: HTML/Javascript
  - Existing dataset: $N Multistroke gestures [20 people], $1 Unistroke gestures [10 people]
  - New dataset: $N Multistroke gestures [6 people]
  - Analysis: user dependent recognition accuracy and GHOST heatmaps

WHY is it interesting?

- $N recognizer allows for much more possibilities thanks to its multi-stroke support.
- Characters in almost all everyday scenarios involve more than one stroke to complete, so adding multi-stroke recognition allows us to do character recognition in real life.



Expected OUTCOME?

- In the original $N paper, the recognition results for the algebra symbols tests reached a 96.6% accuracy with 15 training examples.
- When tested on the $1 Unistroke gesture data, it had a 96.7% with 9 training examples.
- We expect similar results from our $N implementation.

Questions?