
Overview

This document displays four confusion matrices in a stacked bar graph for the fifteen subjects of the NSCM-experiment.

Each subject is listed on a page and every page consists of four plots. In all the plots the abscissa lists the stimuli ranked in order of how often they got confused by the subject. The ordinate shows the sum of confusion. The stacked bars above each stimulus indicate with which vowel(s)/consonant(s) the actual stimulus got confused with.

The upper left plot always shows the confusion for stimuli with consonants in initial position. Whereas the upper right plot shows the confusion for stimuli with consonants in final position.

The lower plots show the data for stimuli with vowels in initial position (left) and in final position (right) respectively. Color Code for subjects:

- Reading Disabled Group
- Normal Reader Group

Alina
Angela
NSCM Anton: Confusion of Consonants in Initial Position

\begin{align*}
H_{avg} &= 0.495 \\
H_{total} &= 5.005
\end{align*}

NSCM Anton: Confusion of Consonants in Final Position

\begin{align*}
H_{avg} &= 0.507 \\
H_{total} &= 4.879
\end{align*}

NSCM Anton: Confusion of Vowels in Initial Position

\begin{align*}
H_{avg} &= 0.459 \\
H_{total} &= 4.363
\end{align*}

NSCM Anton: Confusion of Vowels in Final Position

\begin{align*}
H_{avg} &= 0.675 \\
H_{total} &= 4.586
\end{align*}
NSCM Bob: Confusion of Consonants in Initial Position

\[ \text{H}_{\text{avg}} = 0.584 \]
\[ \text{H}_{\text{total}} = 5.132 \]

Sum of Confusions in P [%]

NSCM Bob: Confusion of Consonants in Final Position

\[ \text{H}_{\text{avg}} = 0.770 \]
\[ \text{H}_{\text{total}} = 5.149 \]

Sum of Confusions in P [%]

NSCM Bob: Confusion of Vowels in Initial Position

\[ \text{H}_{\text{avg}} = 0.827 \]
\[ \text{H}_{\text{total}} = 4.712 \]

Sum of Confusions in P [%]

NSCM Bob: Confusion of Vowels in Final Position

\[ \text{H}_{\text{avg}} = 0.636 \]
\[ \text{H}_{\text{total}} = 4.523 \]

Sum of Confusions in P [%]
Carly

NSCM Carly: Confusion of Consonants in Initial Position

\[ H_{\text{avg}} = 0.764 \]
\[ H_{\text{total}} = 5.292 \]

NSCM Carly: Confusion of Consonants in Final Position

\[ H_{\text{avg}} = 0.904 \]
\[ H_{\text{total}} = 5.276 \]

NSCM Carly: Confusion of Vowels in Initial Position

\[ H_{\text{avg}} = 0.889 \]
\[ H_{\text{total}} = 4.762 \]

NSCM Carly: Confusion of Vowels in Final Position

\[ H_{\text{avg}} = 0.922 \]
\[ H_{\text{total}} = 4.788 \]
Edward

NSCM Edward: Confusion of Consonants in Initial Position

NSCM Edward: Confusion of Consonants in Final Position

NSCM Edward: Confusion of Vowels in Initial Position

NSCM Edward: Confusion of Vowels in Final Position

* removed, since he cannot say r

H_{avg} = 0.840

H_{total} = 5.365

H_{avg} = 0.937

H_{total} = 5.212

H_{avg} = 1.108

H_{total} = 5.001

H_{avg} = 1.095

H_{total} = 4.910
NSCM Evan: Confusion of Consonants in Initial Position

NSCM Evan: Confusion of Consonants in Final Position

NSCM Evan: Confusion of Vowels in Initial Position

NSCM Evan: Confusion of Vowels in Final Position

NSCM Evan: Confusion of Vowels in Initial Position

NSCM Evan: Confusion of Vowels in Final Position

NSCM Evan: Confusion of Consonants in Initial Position

NSCM Evan: Confusion of Consonants in Final Position

NSCM Evan: Confusion of Vowels in Initial Position

NSCM Evan: Confusion of Vowels in Final Position

NSCM Evan: Confusion of Consonants in Initial Position

NSCM Evan: Confusion of Consonants in Final Position

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NSCM Evan: Confusion of Consonants in Final Position

NSCM Evan: Confusion of Vowels in Initial Position

NSCM Evan: Confusion of Vowels in Final Position

NSCM Evan: Confusion of Consonants in Initial Position

NSCM Evan: Confusion of Consonants in Final Position

NSCM Evan: Confusion of Vowels in Initial Position

NSCM Evan: Confusion of Vowels in Final Position
Latisha

NSCM Latisha: Confusion of Consonants in Initial Position

NSCM Latisha: Confusion of Consonants in Final Position

NSCM Latisha: Confusion of Vowels in Initial Position

NSCM Latisha: Confusion of Vowels in Final Position
NSCM Laura: Confusion of Consonants in Initial Position

$H_{avg} = 0.731$
$H_{total} = 4.869$

NSCM Laura: Confusion of Consonants in Final Position

$H_{avg} = 0.823$
$H_{total} = 4.833$

NSCM Laura: Confusion of Vowels in Initial Position

$H_{avg} = 1.348$
$H_{total} = 4.840$

NSCM Laura: Confusion of Vowels in Final Position

$H_{avg} = 1.410$
$H_{total} = 5.056$
NSCM Miguel: Confusion of Consonants in Initial Position

\[ H_{\text{avg}} = 0.795 \]
\[ H_{\text{total}} = 5.309 \]

NSCM Miguel: Confusion of Consonants in Final Position

\[ H_{\text{avg}} = 0.852 \]
\[ H_{\text{total}} = 5.251 \]

NSCM Miguel: Confusion of Vowels in Initial Position

\[ H_{\text{avg}} = 0.896 \]
\[ H_{\text{total}} = 4.782 \]

NSCM Miguel: Confusion of Vowels in Final Position

\[ H_{\text{avg}} = 0.936 \]
\[ H_{\text{total}} = 4.837 \]
NSCM Norene: Confusion of Consonants in Initial Position

NSCM Norene: Confusion of Consonants in Final Position

NSCM Norene: Confusion of Vowels in Initial Position

NSCM Norene: Confusion of Vowels in Final Position

H_{avg} = 0.558

H_{local} = 5.066

H_{avg} = 1.067

H_{local} = 5.401

H_{avg} = 0.989

H_{local} = 4.889

H_{avg} = 0.766

H_{local} = 4.681

Norene
Shauna

NSCM Shauna: Confusion of Consonants in Initial Position

NSCM Shauna: Confusion of Consonants in Final Position

NSCM Shauna: Confusion of Vowels in Initial Position

NSCM Shauna: Confusion of Vowels in Final Position
NSCM Teddy: Confusion of Consonants in Initial Position

NSCM Teddy: Confusion of Consonants in Final Position

NSCM Teddy: Confusion of Vowels in Initial Position

NSCM Teddy: Confusion of Vowels in Final Position
NSCM Tony: Confusion of Consonants in Initial Position

\[ H_{\text{avg}} = 0.625 \]
\[ H_{\text{ovall}} = 5.021 \]

NSCM Tony: Confusion of Consonants in Final Position

\[ H_{\text{avg}} = 0.582 \]
\[ H_{\text{ovall}} = 4.818 \]

NSCM Tony: Confusion of Vowels in Initial Position

\[ H_{\text{avg}} = 0.770 \]
\[ H_{\text{ovall}} = 4.571 \]

NSCM Tony: Confusion of Vowels in Final Position

\[ H_{\text{avg}} = 0.758 \]
\[ H_{\text{ovall}} = 4.577 \]