

A Data Science Approach to Decoding Morse Code Audio

Matthew Younger

DSC105 @ Lyon College

Data is Everywhere

- **Audio is a bountiful source of data.**
- **R lacks native capabilities to study audio**
 - Complication:
 - develop a DSP-specific pipeline and process for research
 - Limitations of off-the-shelf tools (Jupyter Labs, GitHub, R Studio)
- **Solution:**
 - Careful discernment of best applications and methodology

Choice of Tools:



GNU Emacs

Self-documenting Editor



Org Mode

Polyglot Notebook Platform



R-Lang

Quality Libraries, Plotting functionality



Gitea

On-premise, lacks restrictions



Debian Linux

Power of Linux + stability

References:

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Project & Abstract



Recorded Presentation