Recovery of Heard Speech Spectrograms

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- **<u>Goal:</u>** Reconstruct auditory spectrogram of heard speech from neural data and spectro-temporal receptive fields

- **<u>Approach:</u>** Refactor convolution as matrix multiplication and perform recovery of sparse spectrograms
  - Bonus: Apply dictionary to auditory spectrogram and instead learn sparse dictionary representation

- **<u>Outcome:</u>** Reconstruct spectrogram with slow and intermediate temporal fluctuations that can be distinguished from other speech signals