















## Why Use EEG?

## Disadvantages:

- Significantly lower spatial resolution than fMRI
- Cortical bias difficult to detect signals from subcortical regions
- Source localization (inverse problem) sum of signals emitted from many different sources
- ERP studies require relatively simple and limited paradigms with a large number of trials
- Minor subject discomfort skin abrasion, gel in hair



## **EEG Equipment and Supplies**

- Our Department's amplifiers
  - High sampling frequency: up to 4000 Hz for 64 channels
  - Records up to 64 channels plus auxiliary inputs
  - Cascade amplifiers for more channels





































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