Introduction

Methods

* Aim (brief)
* Subjects + ethics
* Protocol
* Behavior
* MEG preproc
  + Bad channel
  + Filtering
  + Segmentation
    - Target
    - Probe
    - Response
  + Bad trial: eye movement
* Analyses
  + Univariate
    - Contrasts
    - Stats
    - Multiple comparison
  + Multivariate
    - Motivation
    - Principle (brief!)
    - Parameters
    - Contrasts
      * Binary
        + stats
      * Orientation
        + principle: SVC on cosin + SVC on sin + reconstruct angle
        + stats
    - multiple comparison

Results

1. Behavior

* Show that protocol is adapted:
  + Stimuli were presented at threshold: Mean proportion of visibility responses
  + Subjects did not answer randomly: Detection d’ + discrimination d’ as a function of visibility
  + HOWEVER: contrast had little effect: visibility as a function of contrast + discrimination d’ as a function of contrast
* Provide potentially important details for subsequent interpretations:
  + Reaction time?
  + Response biases: finger, hand, contrast, visibility

1. Event related field

* Present versus absent
* Present: seen versus unseen
* Orientation

1. Decoding Target

* Motivation (brief): explain that we want to know how the content varies as a function of visibility: complex analyses + multiple comparison + individual variability => MVPA suitable: fit on some model, analyze simple data separately
* Present versus absent + seen/unseen
* Orientation
* Orientation as a function of visibility
  + Orientation decoding as a function of visibility
  + The case of false alarms

1. Generalization across time

* Motivation: decoding during long period of time: maintenance of a single process? Subliminal is slower? Etc

1. Probe decoding?
2. Response lock?

Discussion