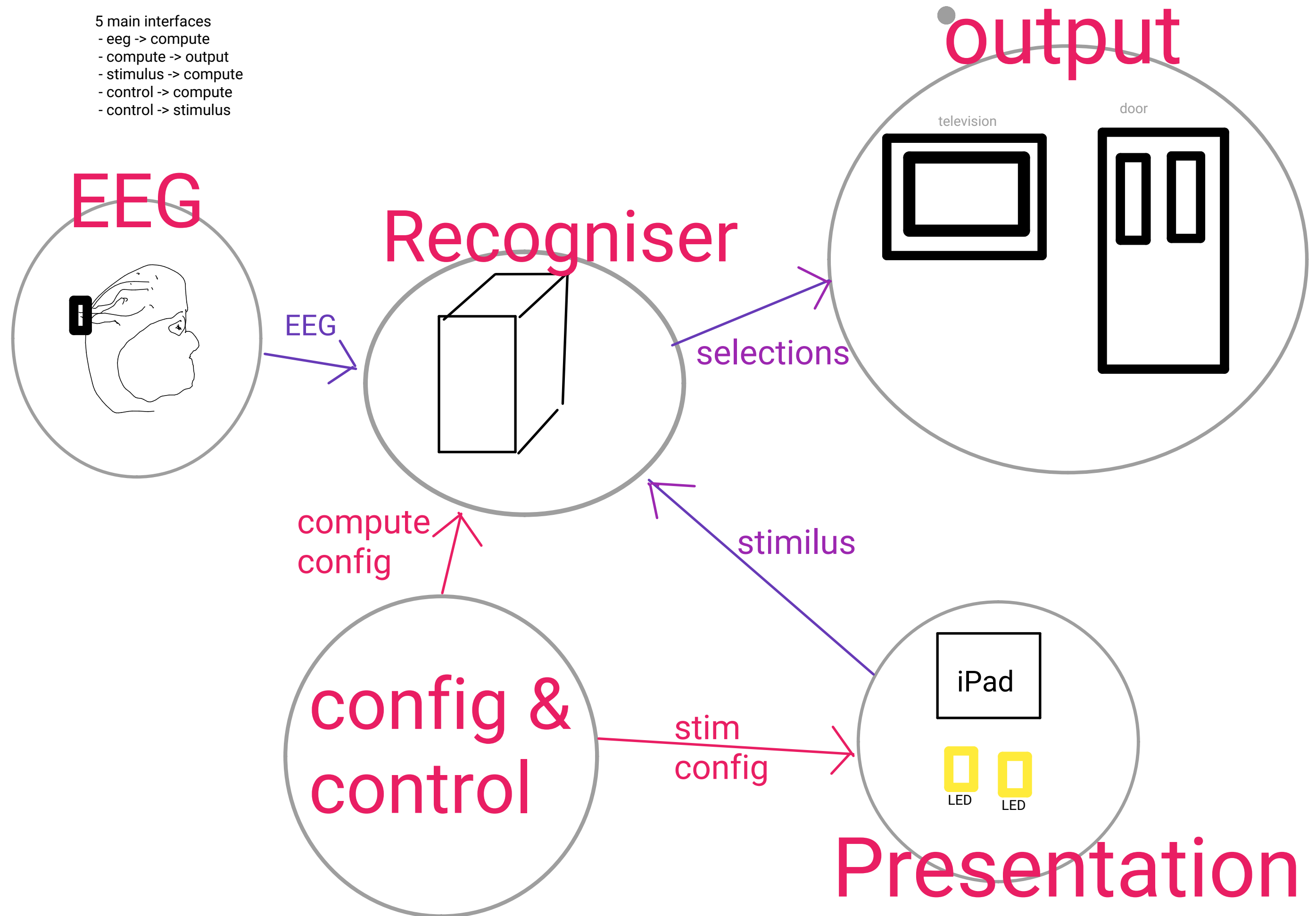# system architecture

System aritechiture
- 4 Main Components
- eeg
- compute
- stimulus
- output
- control

5 main interfaces
- eeg -> compute
- compute -> output
- stimulus -> compute
- control -> compute
- control -> stimulus

output

television

door

EEG

Recogniser

EEG

selections

compute config

stimilus

config & control

stim config

iPad

LED   LED

Presentation

Current system architecture

JPA

EEG

Lang: C / java

EEG

ft-Buffer

Lang: Java

Utopia2ft

Lang: Java

WIFI

Utopia Message Spec Messages

Recogniser

Lang: Octave/Matlab + Java

LOGGING

STICK

selections

output

television

door

stimulus

iPad

stim config

LED   LED

Presentation

Lang: Swift? Objective-C

EEG

EE

Pre-proc + Slice

Pre-processed Sliced EEG + Event Labels

Model Fitting

Stimulus Event Info

Learned Model (s)

Stimulus Prediction

Output Scores over Time

Decoding & Output

Predicted Target + Confidence