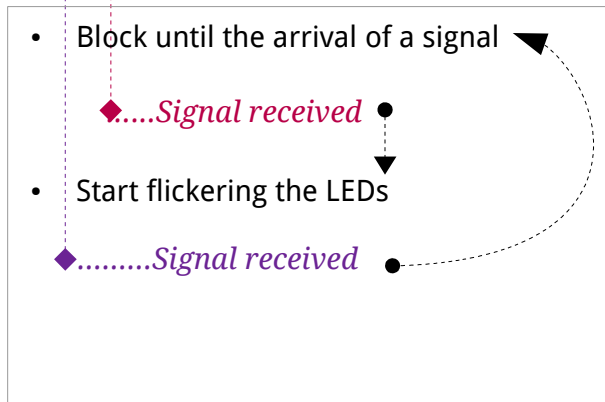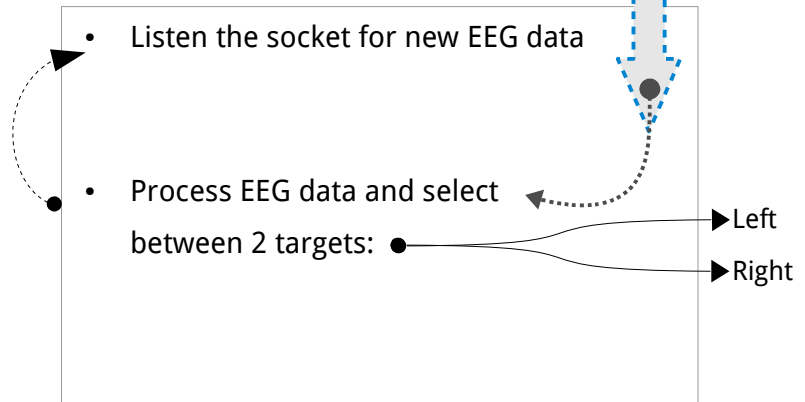# EEG Acquisition (ACK) Block

(1) Start SSVEP block in background with *(f1, f2)* as frequency parameters

(2) Start SP block in background

(3) Create a socket connection between this block and SP block

(4) Initialize Emotiv EEG

(5) Execute main BCI loop for *n_trials* times (or infinitely)

      (a) Acquire resting EEG for *duration* seconds

      ● (b) Send signal to SSVEP block to start flickering

      (c) Acquire SSVEP EEG for *duration* seconds

      (d) Send signal to SSVEP block to stop flickering

      (e) Send EEG data to SP block for processing over the socket

Socket

SSVEP Stimulation Block

- Block until the arrival of a signal
  - ◆....*Signal received* ●
- Start flickering the LEDs
  - ◆.........*Signal received* ●

Signal Processing (SP) Block

- Listen the socket for new EEG data

- Process EEG data and select between 2 targets: ● → Left
  → Right