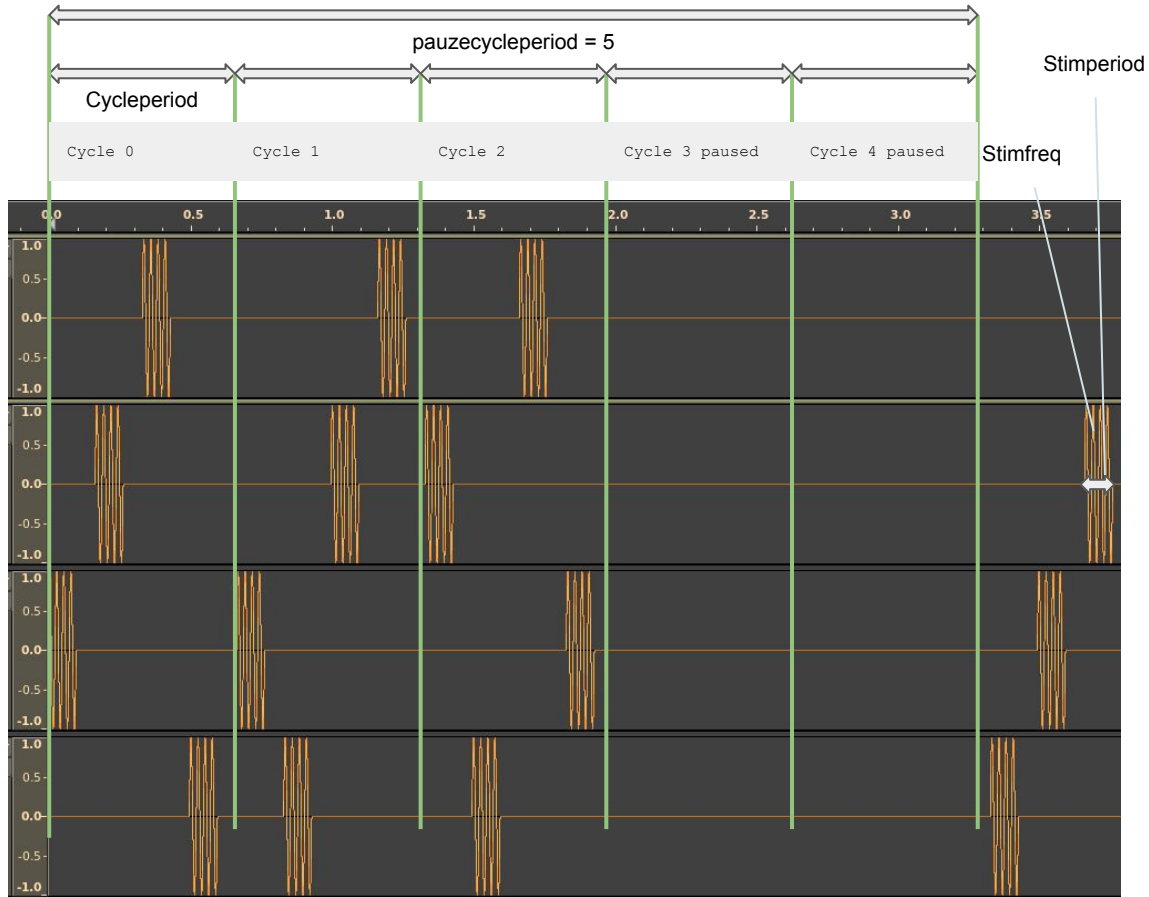


F2Heal

V1 Documentation

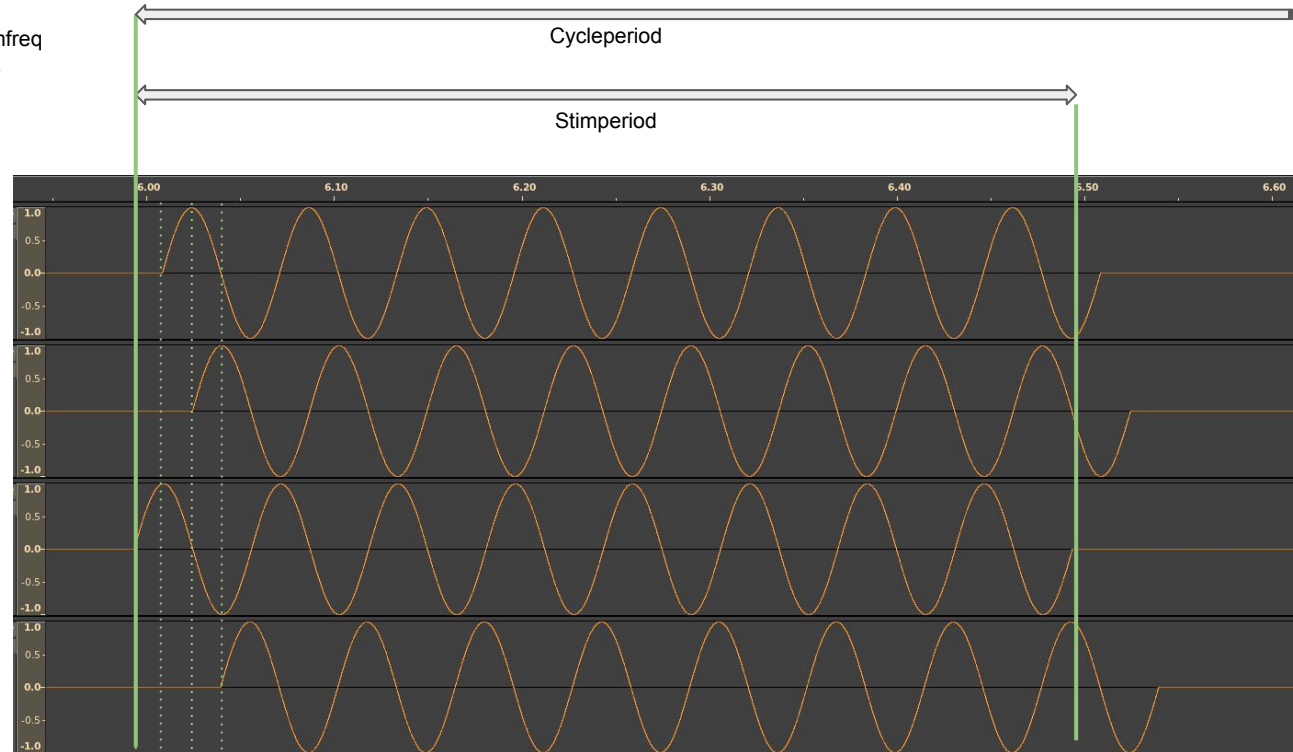
Blocked (aka interleaved) mode

- 4 channels per hand, 8 channels in total
- Stimulates the channels in 2 groups of 4 in random order alternating with sine waves
- Configurable parameters:
 - Stimfreq : frequency of stimulation signal ~ Stimperiod : period of the stimulation signal
 - Stimdur: duration of stimulation signal
 - Cycleperiod: duration of cycle to stimulate all 4 channels
 - Pausecycleperiod: number of pauseable cycles
 - Pauses: cycles to pause within the pauseable interval
- Constraints:
 - Does the sine wave complete its cycle during within the stimulation period?
 - Stimfreq ~ stimperiod
 - Enough time to stimulate all channels within one period?
 - $4 \times \text{stimperiod} < \text{cycleperiod}$



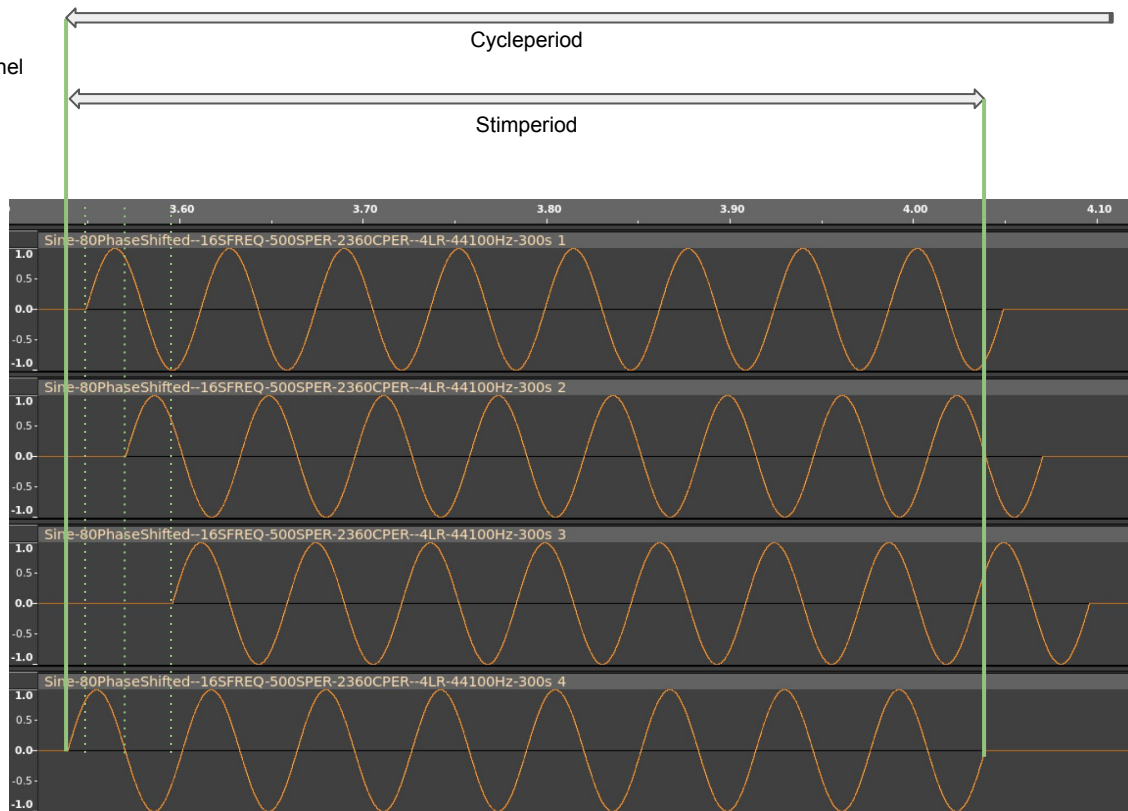
Fixed Phase shifted mode

- 4 channels per hand, 8 channels in total
- Stimulates the channels in 2 groups of 4 channels simultaneously with phase shifted sine waves:
 - A random selected channel starts
 - After a quarter wavelength of the stimfreq another random channel starts, etc...
- Same constraints as interleaved mode.



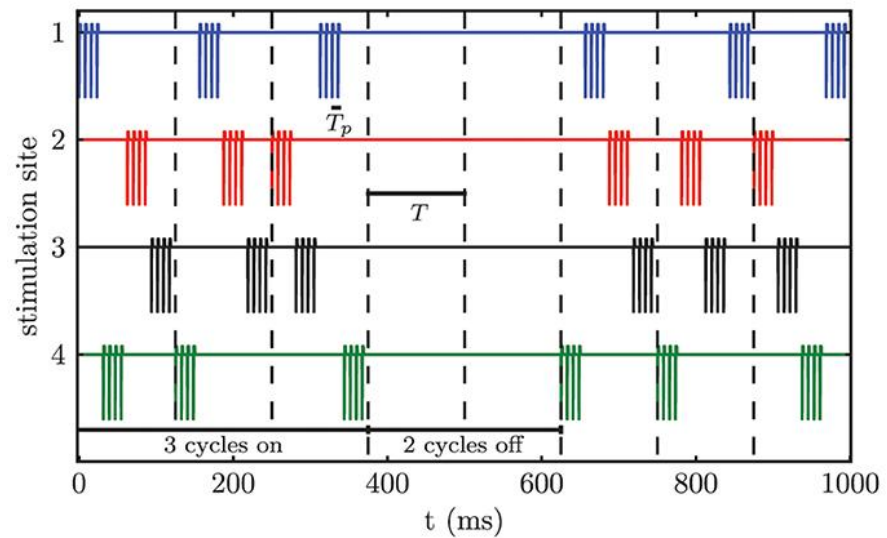
Fixed Phase shifted mode

- 4 channels per hand, 8 channels in total
- Stimulates the channels in 2 groups of 4 channels simultaneously with phase shifted sine waves:
 - A random selected channel starts
 - At a time, smaller than supplied phaseshift, every channel is started
- Same constraints as interleaved mode and
 - The phaseshift cannot be too large
 - $4 \times (\text{phaseshift} + \text{stimperiod}) < \text{cycleperiod}$





Use the `--norandom` option in blocked mode to determine correct grouping of channels per hand



T_p : stimulation period within a burst.

$M = 4$, which matches the number of actor
stimulation period T