### Main Logic (processFreq) state machine diagram:

current trequency: 9
expected frequency: a
error ablowance rate: E
error range: [2<sup>-\frac{\pi}{12}</sup> \alpha, 2<sup>\frac{\pi}{12}</sup> \alpha]
least stable time: st
detect sound threshold: fo

error warning factor: C

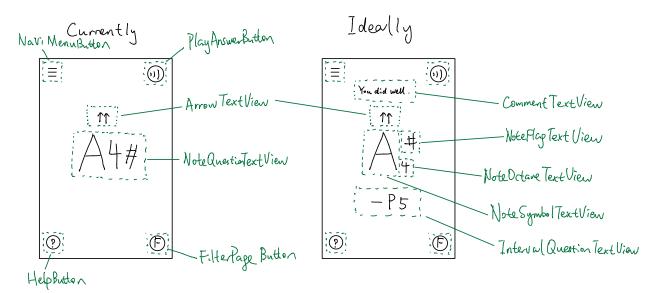
Second error range: (\* error range)

TOPO

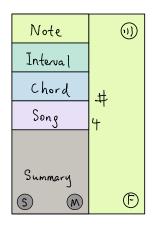
Pcfo No Sound

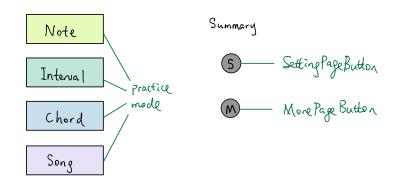


#### General Main Screen

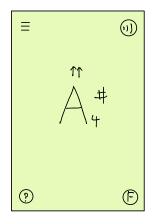


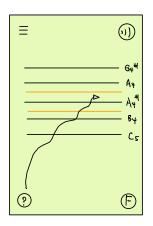
#### Navi Menu



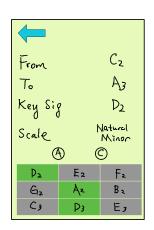


Note Practice Mode





Note Practice Filter Page



can be more intrictive design

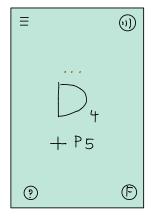
(A): select / unselect all

e.f. toggle to select all

teggle again to unselect all

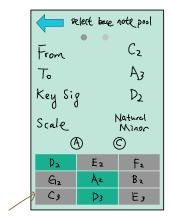
© select complement  
e.f. 
$$U=\{1,2,3,4,5\}$$
  
selected  $\rightarrow S=\{3,5\}$   
toggle  $\Rightarrow S \leftarrow U \setminus S$   
toggle  $agin \Rightarrow S \leftarrow U \setminus S$ 

### Interval Practice Mode

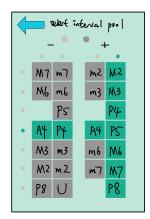


- $\odot$
- · single tap: play Dy
- · long press:
- play A4

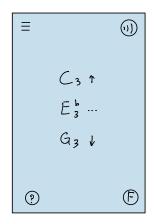
## Interval Practice Filter Page



note pool generated by the filter (candidate notes) above



### Triad Pratie Mode



(1)

· single tap:

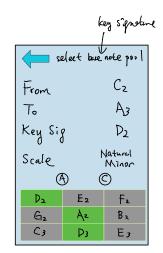
play chord

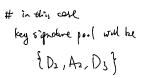
· long press:

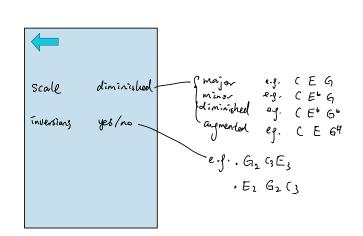
play notes

in order

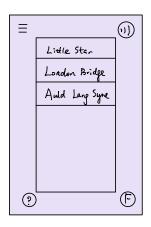
## Triad Practice Filter Page

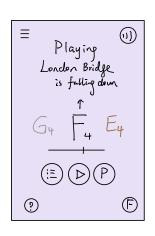


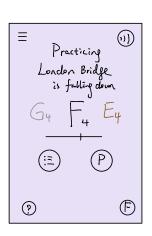


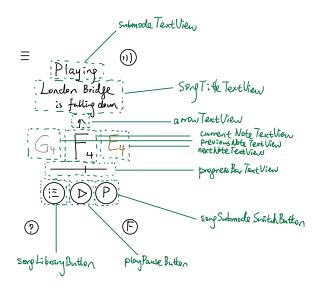


## Song Practice Mode

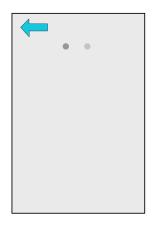








# Setting Page



toggle

- · oruto play back answer when correct
- · de bugging mode (show current pitch...)

### hardcore

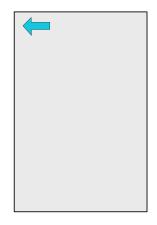


error allowance rate: E

error warning factor: C least stable time: st

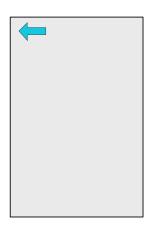
detect sound threshold: fo

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# Summony Page



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- · Need to practile notes: