OnPitch

Realtime Visual Pitch Analysis

The Goal

- Help musicians learn riffs
- Give visual representation of their sound
- Improve attacks and pitch accuracy

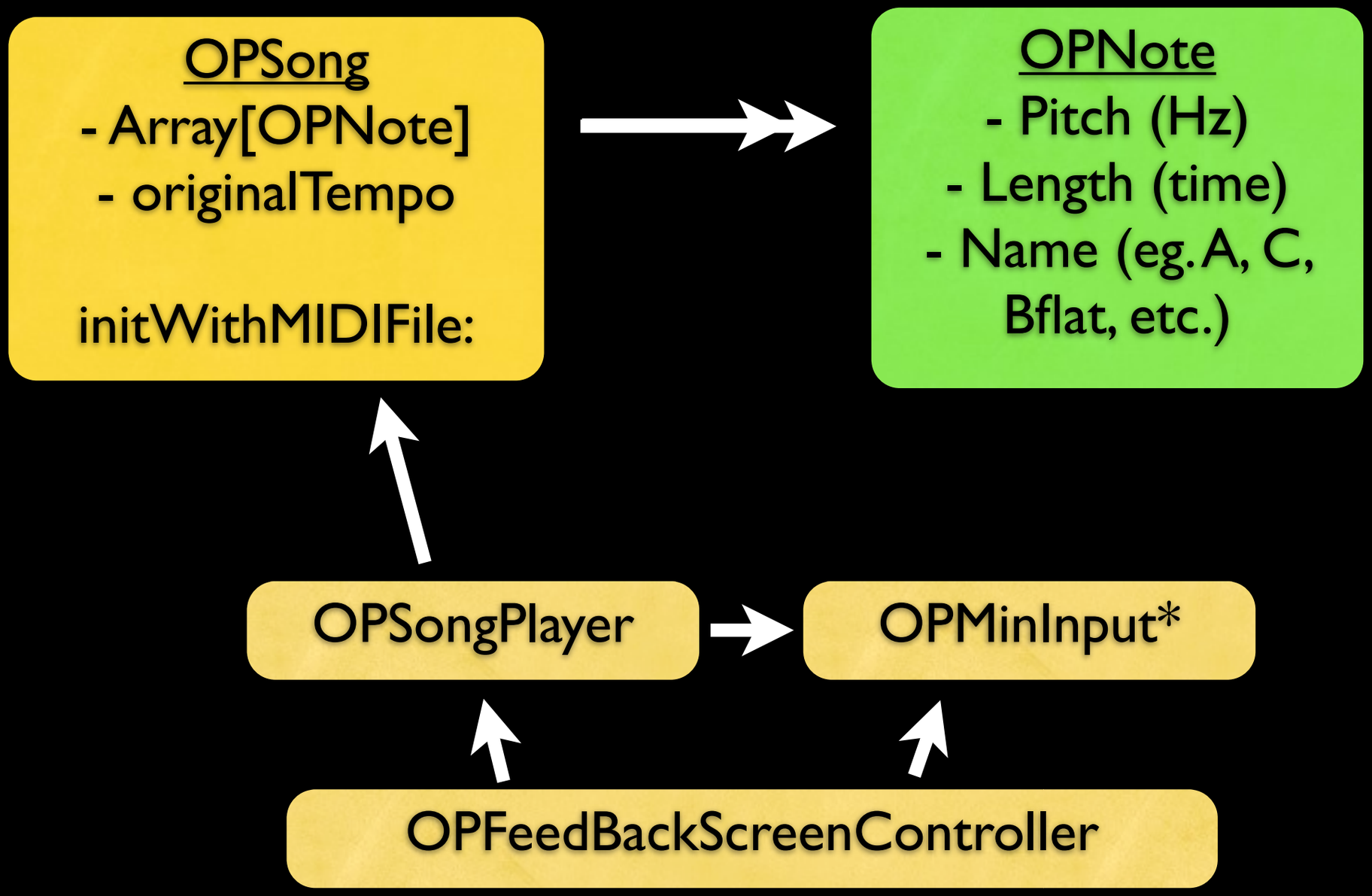
Description

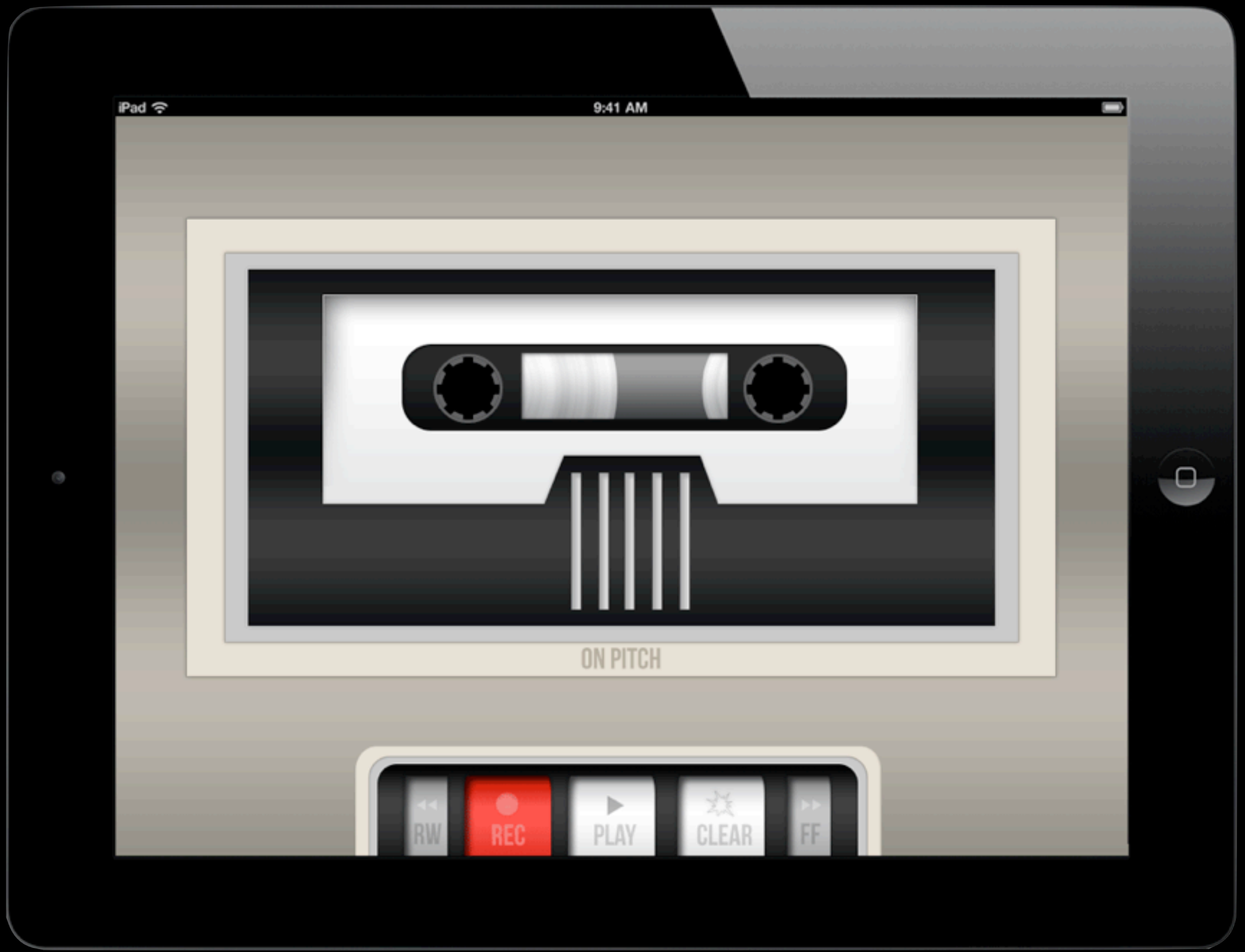
- Given some reference track (MIDI)...
- ...tell the user how right or wrong they are.
- Staff notation combined with “voice line”.

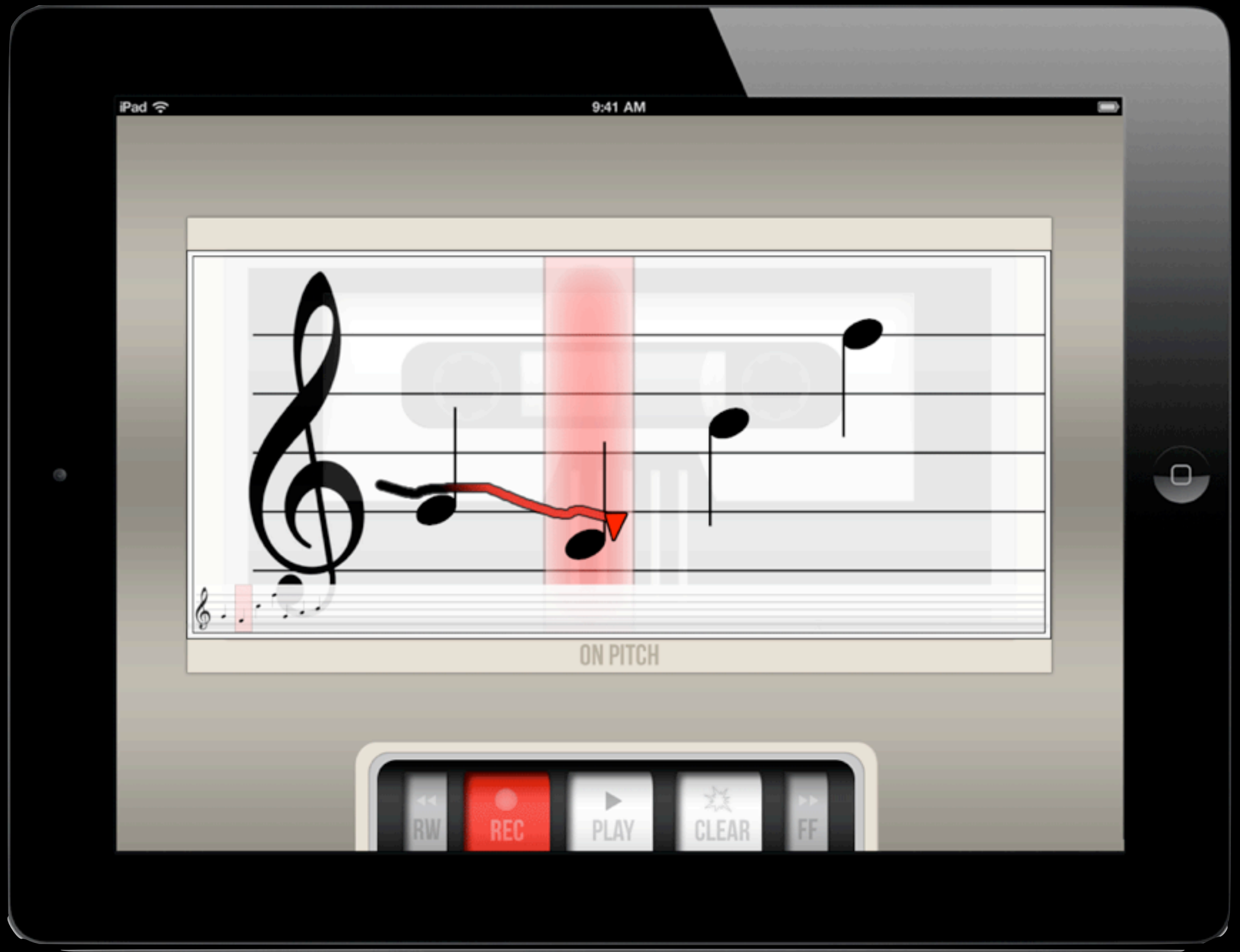
Challenges

- FFT analysis of live audio
- MIDI import of reference track
- (Reference track creation?)

Internal Structure




iPad
9:41 AM
ON PITCH
RW
REC
PLAY
CLEAR
FF


iPad
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Inputs/Outputs

- MIDI Import
- Microphone for voice/instrument pitch
- Touch screen for interface
- Speakers/headphones to play back audio

Secondary Features

- Alternate notation format (piano roll vs. staff)
- Change volume/tempo of reference track
- Metronome (for count in)
- Tap on reference notes to hear pitch
- Transposing of reference track

Q&A