

harry mack
game audio designer



An incomprehensive guide to iPhone
audio development.

Shameless self-promotion

- Collaboration between Mind Control Software and Richard Garfield, legendary creator of the *Magic: The Gathering*.
- Multi-player strategy game featuring versus battles that are ~10 minutes long.
- Same game play depth and expandability of Magic, without the intimidating deck-building feat associated with most TCGs.

“playable by a wide audience, fairly fast, a good amount of luck, a good amount of strategy, and something that feels more like a paper game but still made with a computer” - Garfield

www.mind-control.com/mindtwist/



Getting layered audio into your app



The problem

- Playing multiple compressed (aac, mp3, alac) files at the same time.

Why?

- There is only one hardware uncompressor available. Software-based decoding can cause performance degradation.

Getting layered audio into your app

The solution

- A combination of standard compression for your largest file (i.e. background music) and IMA4 (ADPCM) encoding for other audio.



Audio tips for iPhone users

Are your pants mumbling softly, or is that your iPhone ringing?

Dealing with low ring tone volume.



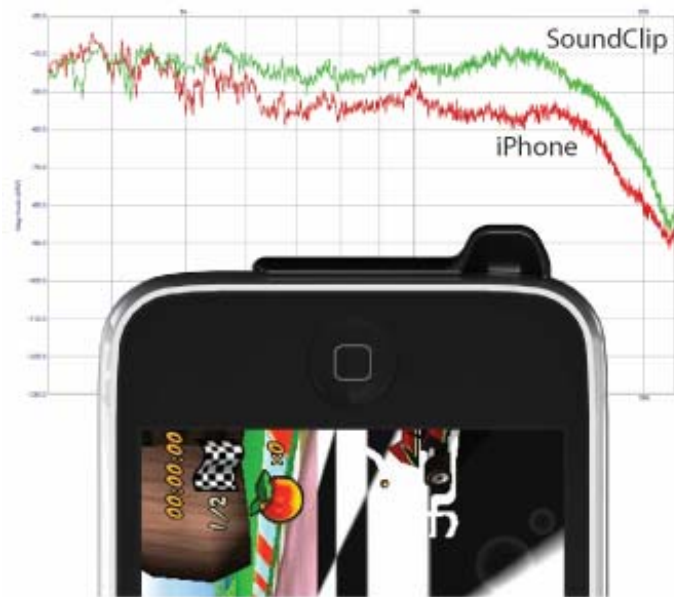
- Make your own ring tone! (Ringtone Expressions www.ringtoneexpressions.com)
- A loud, high-frequency ring tone is an easy fix.

Audio tips for iPhone users

For the audio elitists (I know... it's still not as good as vinyl).

SoundClip (<http://tenonedesign.com/soundclip.php>)

- A tuned conical deflection chamber designed to make the audio clearer and louder.
- Directs sound from iPhone toward you.
- Amplifies iPhone audio by 10dB



Audio tips for iPhone users

Resistance is futile, you will be normalized.

A solution to varying volume levels in your music collection.



- Go into the *Playback* tab of your *iTunes Preferences*
- Enable *Sound Check*
- Wait for it to finish, then sync your iPhone

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Thank you for listening to me

You can download this presentation at:

www.harrymack.com