Beyond Graphics: Reaching the Visually Impaired Gamer

Brandon Cole, Ian Hamilton, Jonathan Hersh, Alex Macmillan, Brian Schmidt

SAN FRANCISCO, CA MARCH 17-21, 2014 EXPO DATE:: MARCH 12-27

GBC

Ian Hamilton

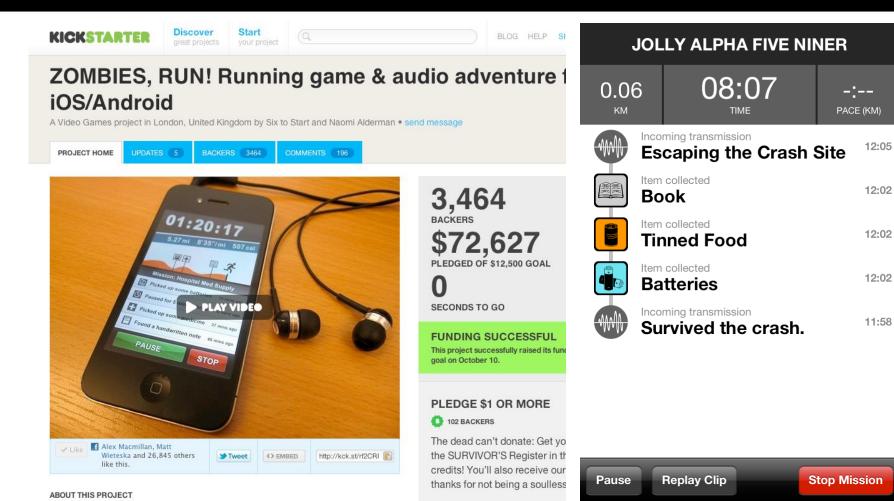
UX designer & accessibility specialist @ianhamilton_

Accessible Zombies, Run 2 Why and How

Alex Macmillan

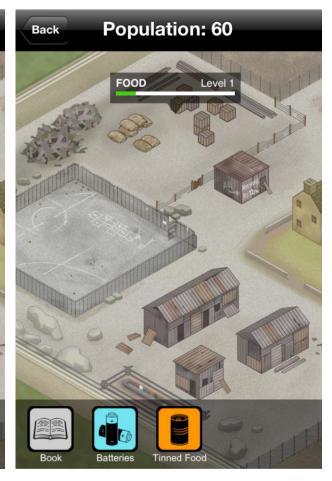
Lead Developer, Six to Start (2011-2013) Now Mobile Engineer, Intuary @arexx







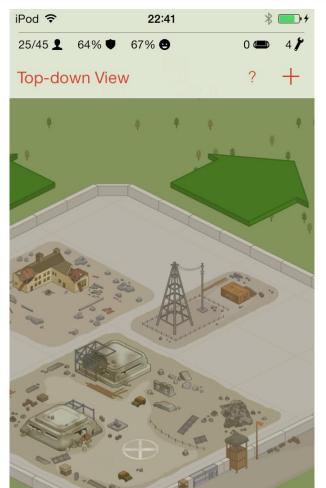




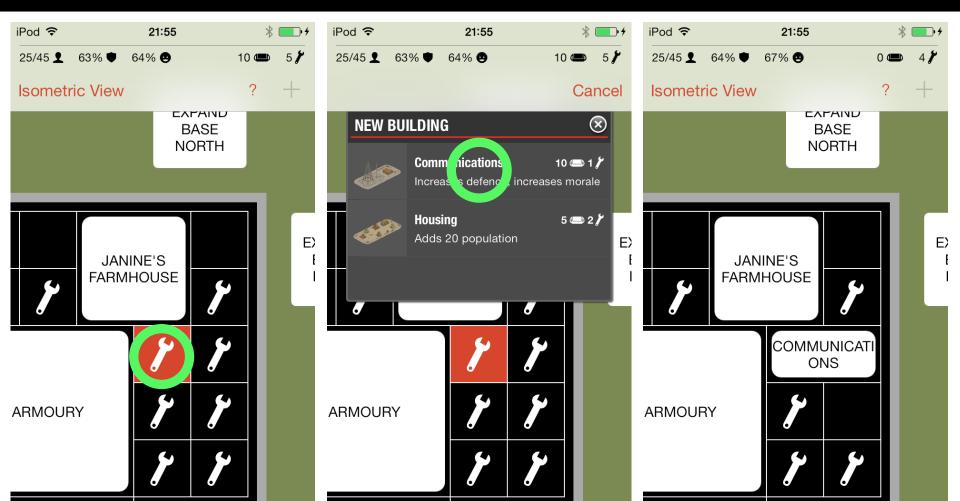
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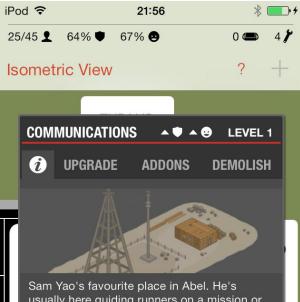


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usually here guiding runners on a mission or chatting with other settlements via RoffleNet. He tends to leave it in a state of organised chaos which Janine likes to refer to as "that bloody mess".





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{Y

@jhersh







MUDRammer - A Modern MUD Client



so ANSI



> cast cloak of clouds

A cloak of clouds billows up from the ground, enveloping you completely.

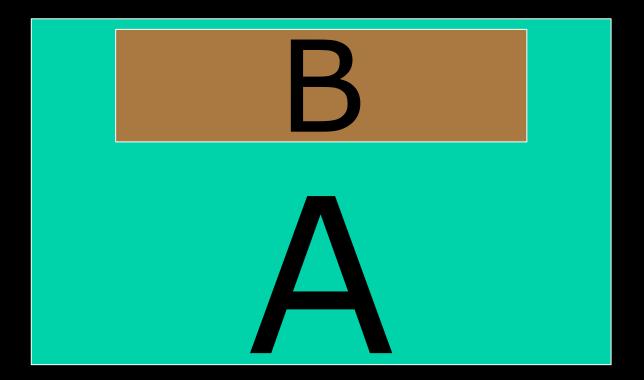
A baby wuzzie is here.

> cast bolt of thunder at baby

You point a finger at the baby wuzzie, and there is a brief crackle of electricity, followed immediately by a deafening bolt of thunder that rips it limb from limb. You disintegrate the baby wuzzie. You kill the baby wuzzie.

never gonna give you up never gonna let you down

Your cloak of clouds swirls restlessly. Your cloak of clouds swirls restlessly. Your cloak of clouds swirls restlessly. Your cloak of clouds blows away, leaving you feeling VULNERABLE!!!



github.com/splinesoft/SSAccessibility

applevis.com

Brian Schmidt



Design Goals

- Audio-only game with specific 'niche' market targets
- 3D audio nerds
- Gamers with visual impairments

Audio Only Game

- Natural for gamers with visual impairments, right?
- Made some bad assumptions.
- But they were easy to correct

Good assumption 1: The iOS Accessibility API's are pretty easy to use

Quite straightforward to add basic accessibility

Bad assumption 1: Assuming I can emulate the blind experience

 Playing the game blindfolded is not emulating the experience of a visually impaired player

Good Assumption 2: User feedback would be helpful

• The visual impaired gamer community is a great community and (thus far) seems to be troll-free..

Bad assumption 2: Sightless Players will "get it"

- Had added visual hints for sighted players
- Quickly learned I need analogous hints for blind gamers

Good Assumption 3: Use Siri voice for 'help'

- Siri is a known entity, so it felt natural to use it in-game appropriately
- iOS 7 Voice API's make it even easier

Bottom line

 Knowing how blind gamers interact with their devices is key

 Small additions (even to an audio only game) made objectives easier to understand for the VI community



Brandon Cole @superblindman

I'm just an average blind dude who likes his video games, his music, and his books, and loves his fiance.

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