

Controlling Carnage

Effective mobile action platformer controls

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MOSCONE CENTER · SAN FRANCISCO, CA MARCH 2-6, 2015 · EXPO: MARCH 4-6, 2015 Roadhouse Interactive is a mobile game development studio in Vancouver, Canada

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• Founded in 2009 with over 100 talented folks building several titles



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Warhammer 40,000: Carnage is an action "RPG" side-scrolling platformer for mobile and tablet devices



It used to be so easy...



More buttons! More innovation!



Now what?



AGENDA

Part I – Early Game Evolution Part II – Iteration of Controls Part III – Late Stage Evolution



Controlling Carnage - Part I EARLY GAME EVOLUTION

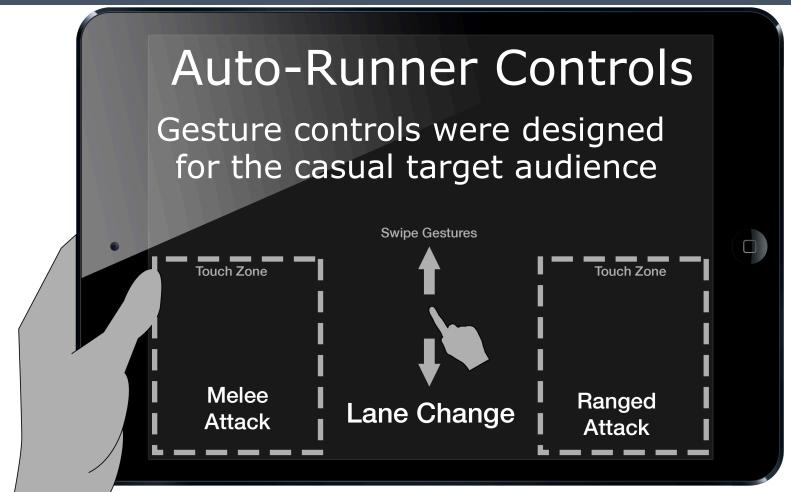




Original Pitch

 Auto-runner with combat in the 40K universe



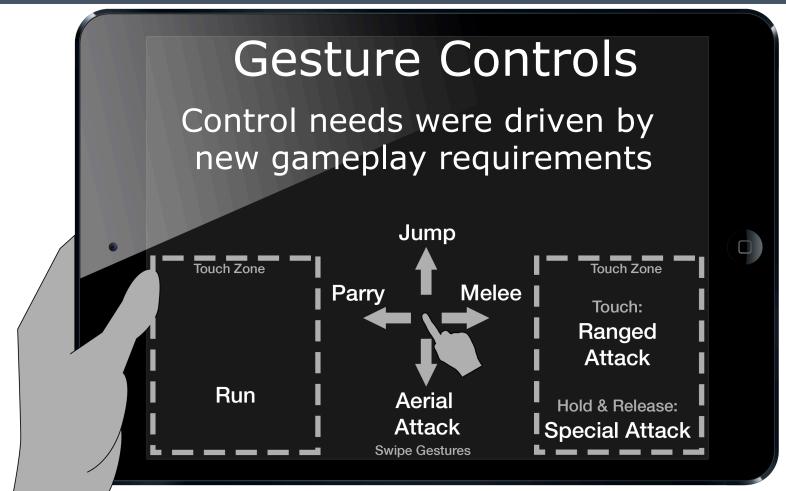


Gameplay Reboot

Player movement and combat wasn't fun

• We realized we wanted to make more of a classic side-scrolling platformer than a mobile runner.





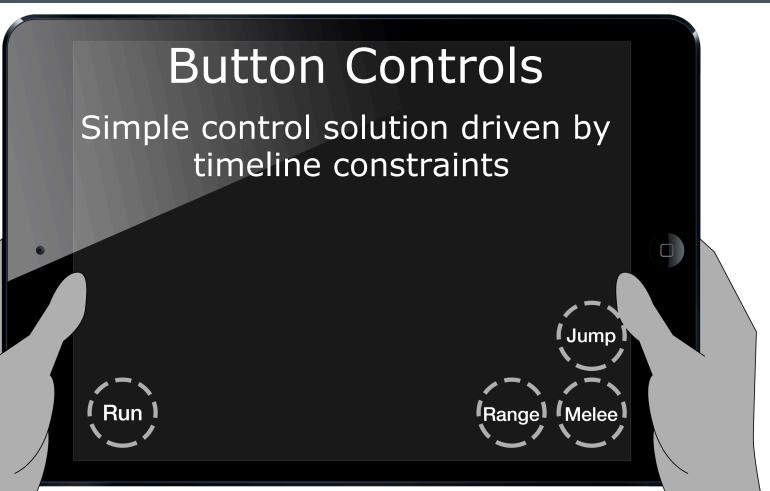
Still not feeling right..

• Unfortunately, we had a public demo in 2 weeks.

• Time to scramble.



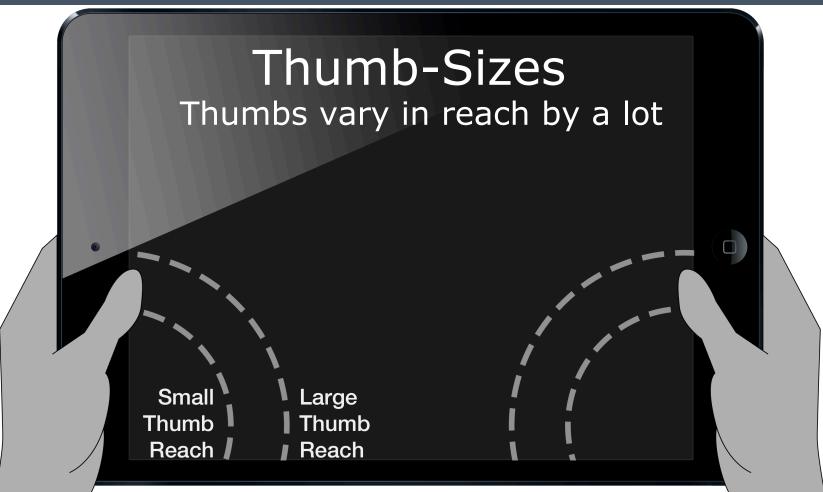




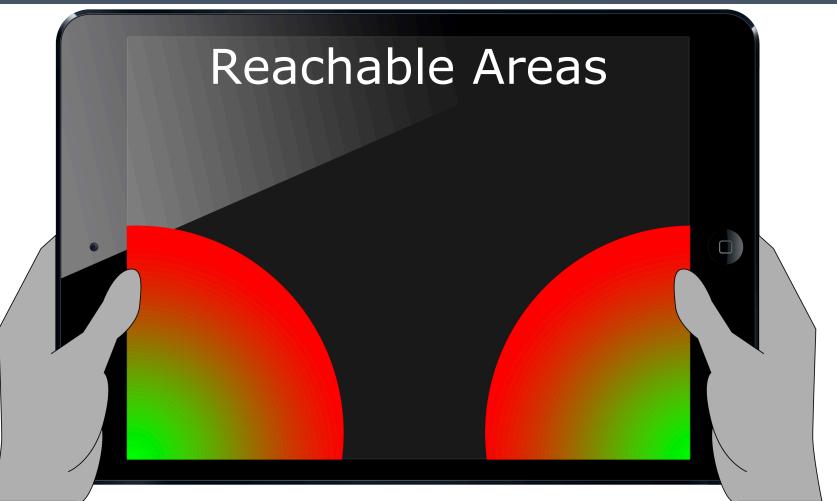
Controlling Carnage - Part II ITERATION OF CONTROLS



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Run

Jump

Melee

Range

Button Placement Ensuring small thumbs can reach the controls

Problems with Buttons

- Mis-Clicks
 - Players pressing the wrong button by mistake.
- Thumb-Drift
 - Players' thumbs drifting away from hit areas.



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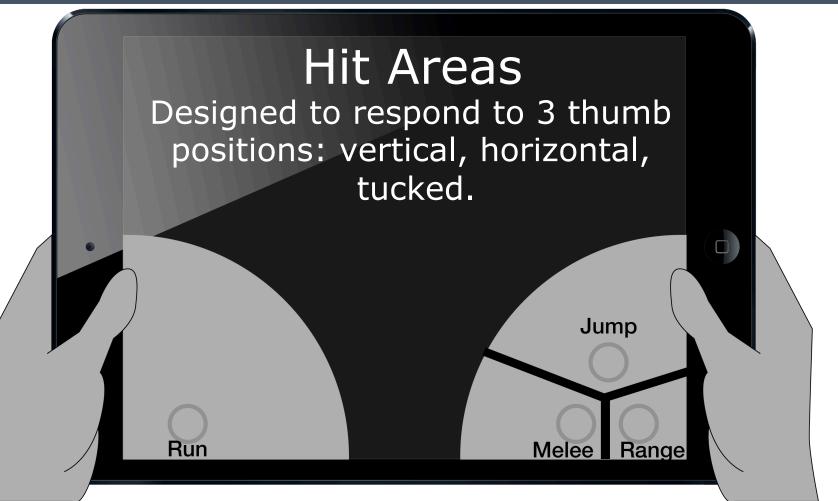
Controllers Have Tactile Feedback



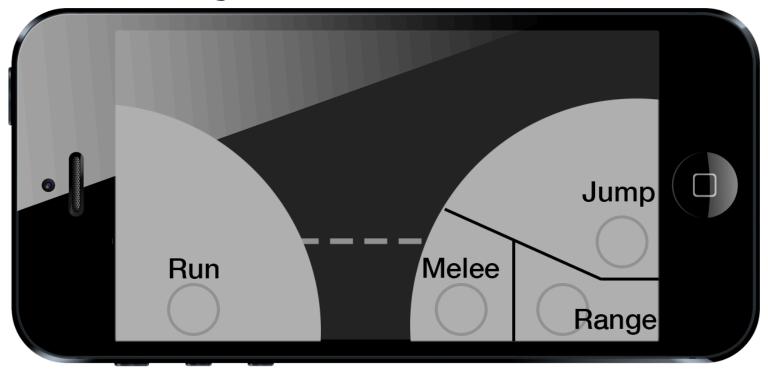
Solving for the Lack of Tactile Feedback

Hypothesis: Muscle feedback from vastly different thumb positions can offset the loss of tactile feedback.





iPhone Adjustments



iPhone Adjustments



Controlling Carnage - Part III LATE STAGE EVOLUTION



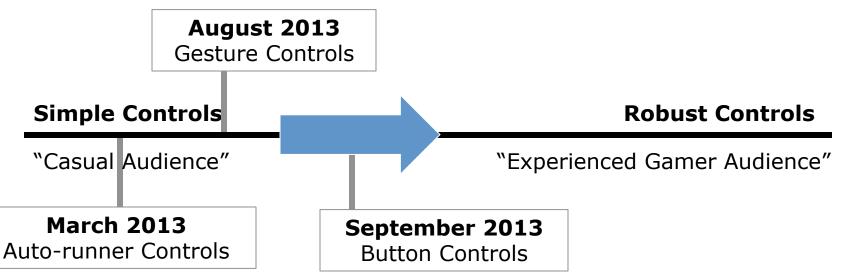
Gameplay Pressures Post Alpha

• Gameplay wasn't robust enough

• We're going to need more controls

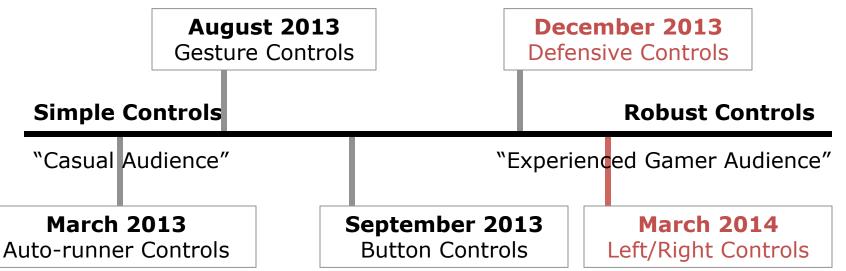
Gameplay Pressures Post Alpha

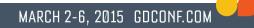
• Complexity of controls was a hotly debated topic during the entire project.

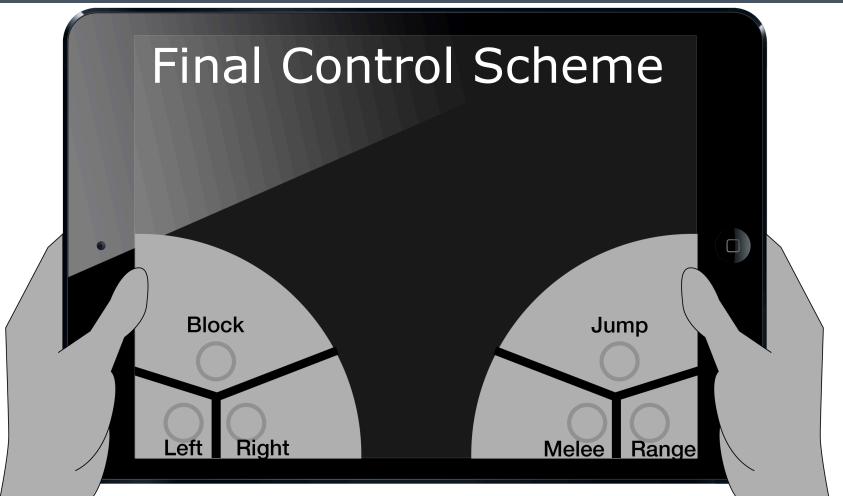


Gameplay Pressures Post Alpha

• We added defensive and left/right controls to allow for more robust gameplay.







Final Tweak

 Sliding between hit-pads allowed for significantly more fluid movement controls

Allowed for easier Jump
 + Shoot



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Controlling Carnage - Part IV CLOSING THOUGHTS

Carnage Control Scheme

- It's been successful
 - 6 hit-pads with modal capability has allowed for robust gameplay options
 - Easy to learn
 - Responsive and predictable

• But we continue to refine and iterate

This stuff is hard

- Controls for mobile games are hard.
 - No pre-defined UX or standard physical input device

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- Lack of tactile input means many console-schemes don't work
 - But sometimes these limitations can be subverted

But there are many opportunities

- Controls, Gameplay and Target Audience are closely coupled
 - Exciting possibilities!
 - New genres can be created and old genres reborn to target different audiences
 - We now have greater control of how players interact with our games

Inspiring end slide

• Let's move beyond the tap, tap, tap and virtual D-Pad.

 Let's innovate and create new ways for our players to interact with our games.



Thank you,

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