

Using Technical Testers

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Agenda

Theory

- Definitions
- Practical examples

Practice

- Use of Technical Testers @ Turn10
- Hiring Technical Testers
- Final Thoughts

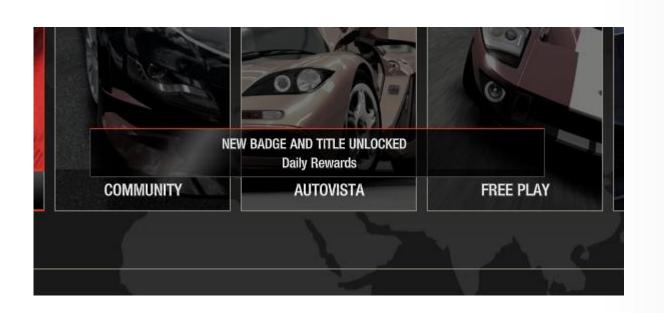
Definitions

Standard testers

- Interact with the game like a consumer
- Minimal knowledge of how the game is created
- "Black box"

Technical testers

- Interact at both component and consumer levels
- Uses same skills as feature and content creators
- "White box" or "Grey box"



Standard testers

- Do the steps in the achievement
- Try to speed up the process

Standard testers

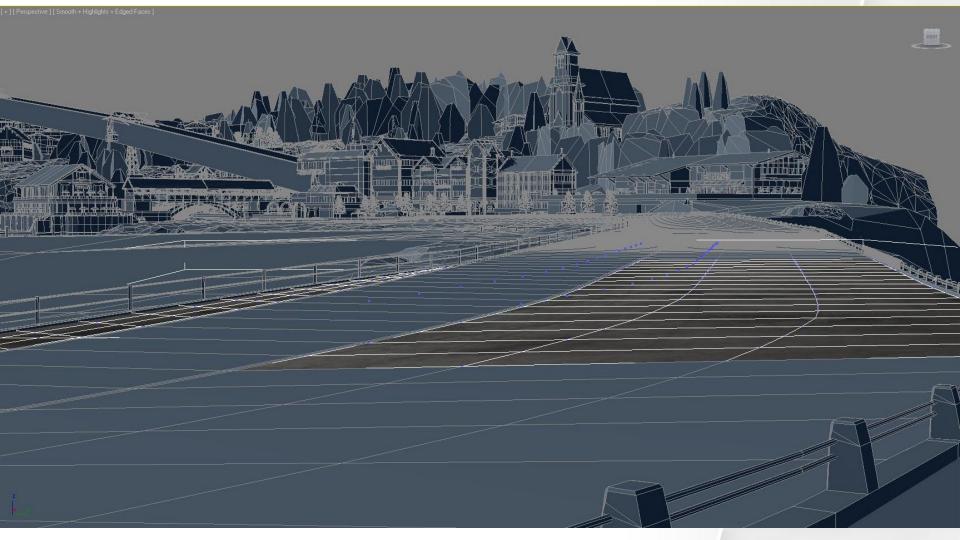
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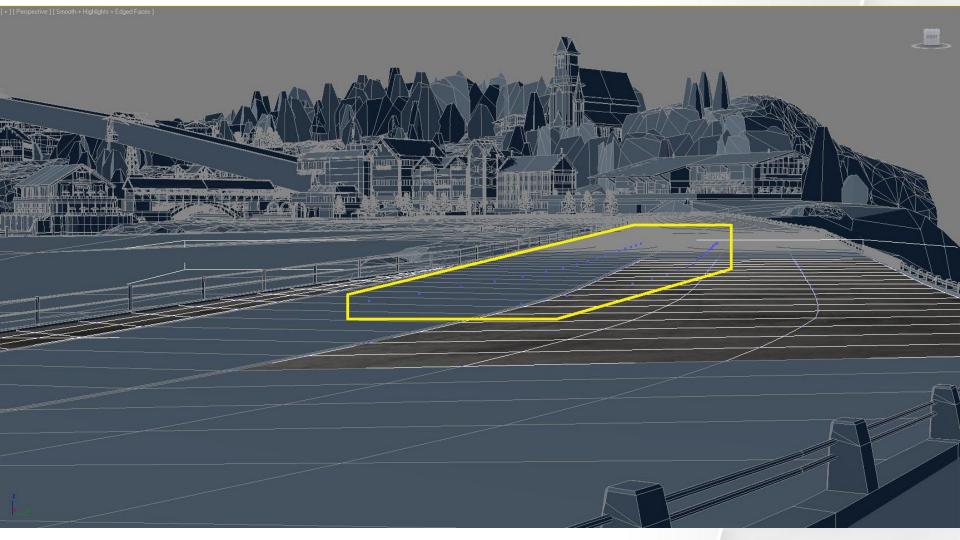
Technical testers

- Inspect code to find how achievement is triggered
- Modify function's input

Practical Examples Content

Screenshot removed

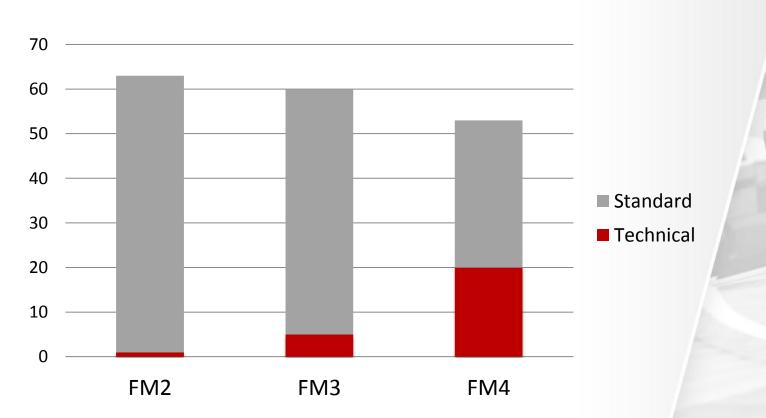




Technical Testing @ Turn10

- Conscious effort moving to Technical Testers
- Able to evaluate changes over many versions
- Not all data is conclusive
 - Some gaps filled by interviews/team knowledge

Staffing Levels

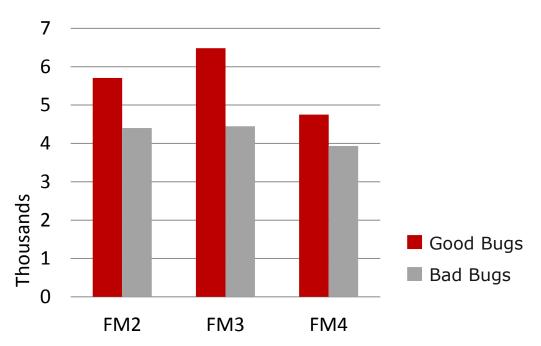


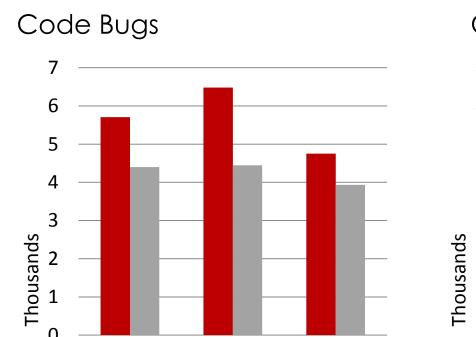
End-Game

	Full Test Pass	Shutdown Time
FM3	6 weeks	15 weeks
FM4	5 weeks	13 weeks



Code Bugs

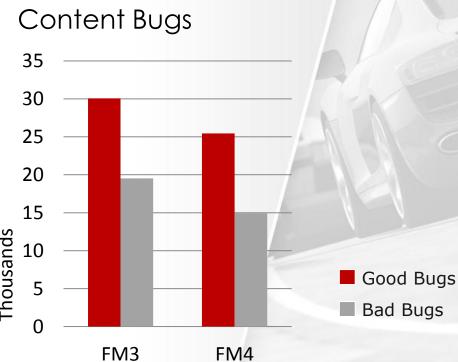




FM3

FM4

FM2



Effectiveness Code Bugs

Standard Testers

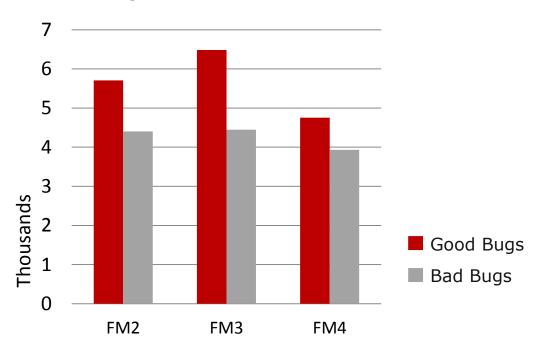
Technical Testers



Effectiveness Content Bugs



Code Bugs



Cost Implications

Cost Implications Cost for standard vs. technical testers

Code Testers

25-40% more expensive Content Testers

5-10% more expensive

Cost Implications Cost per good bug

Code Testers

45% less expensive

Content Testers

more expensive

Changes @ Turn10

- Testing happens earlier
- Test is integrated into production process
- More predictable schedule
- Increased Dev/Art bandwidth

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- Traditional test skills are the base of everything
- Have devs/artists and testers on your interviews
- Dev/producer/artist with a break-it mentally or a need to make it "right"
 - Takes a broad view, rather than fine details
- Prepare your org

Thoughts

- Higher cost produces greater benefit than input
- Invest slowly at first
- Standard testers are still needed; Technical testers aren't an end-all be-all solution
- Don't discount the intangibles

Thank you

Q&A up front

