

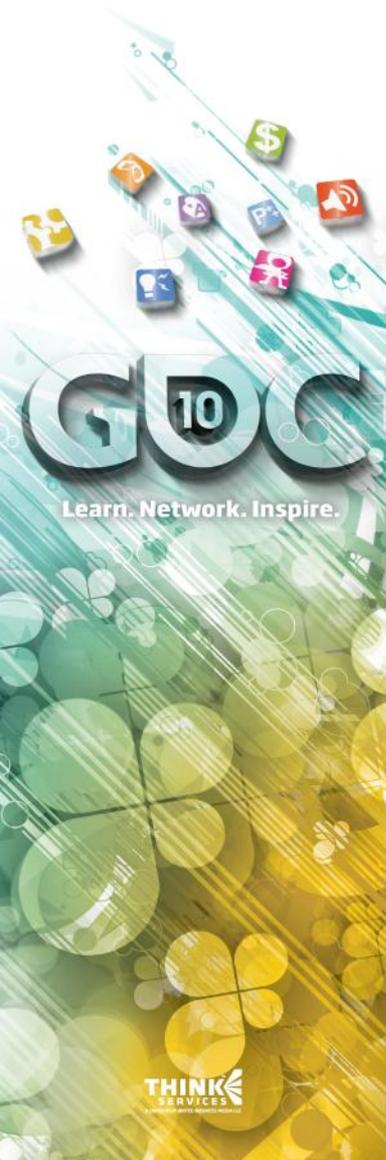
# GD10

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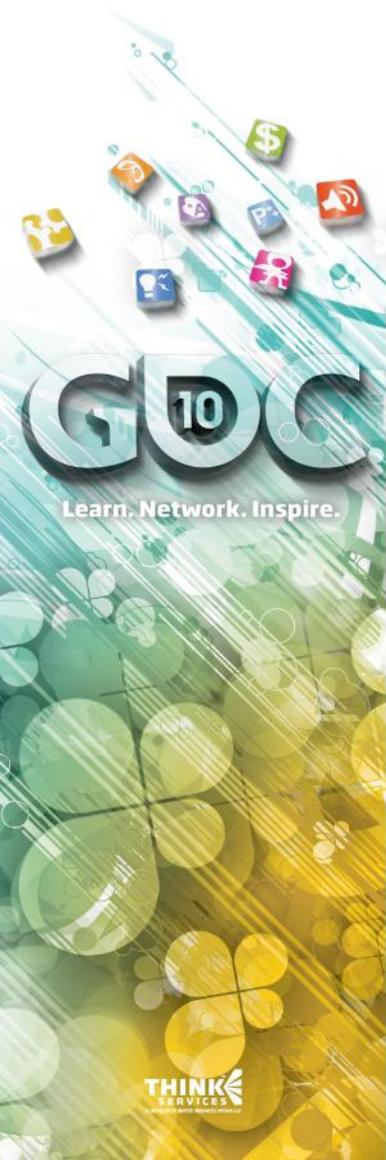
# QA's 10 Commandments: What?! Only 10?

- ⊕ A review of QA's best practices and an examination of potential additions.
  
- ⊕ Chuck McFadden  
Sony Computer Entertainment  
America

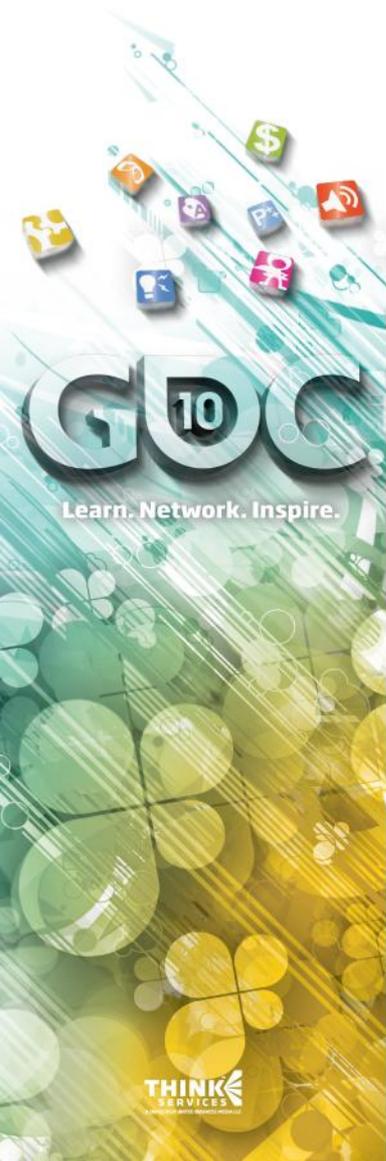


# This lecture is NOT:

- ⊕ An in-depth examination of **SCEA's** QA practices or of PlayStation Home.
- ⊕ A review of console submission requirements.
- ⊕ An hour long.

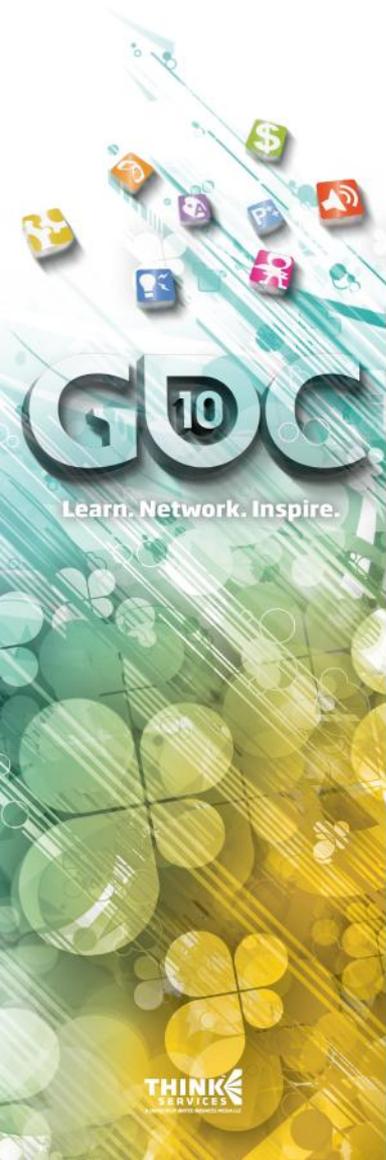


# The origin of the 10.



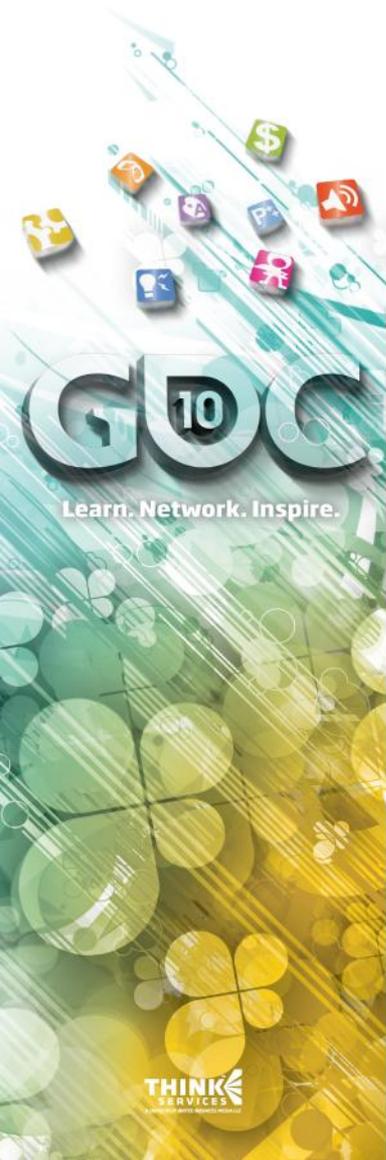
# Use the Scientific Method.

- ④ Observe and describe.
  - ④ Formulate a hypothesis.
  - ④ Experiment.
  - ④ Draw a conclusion.
- 
- ④ *This Commandment separates the good testers from the bad.*



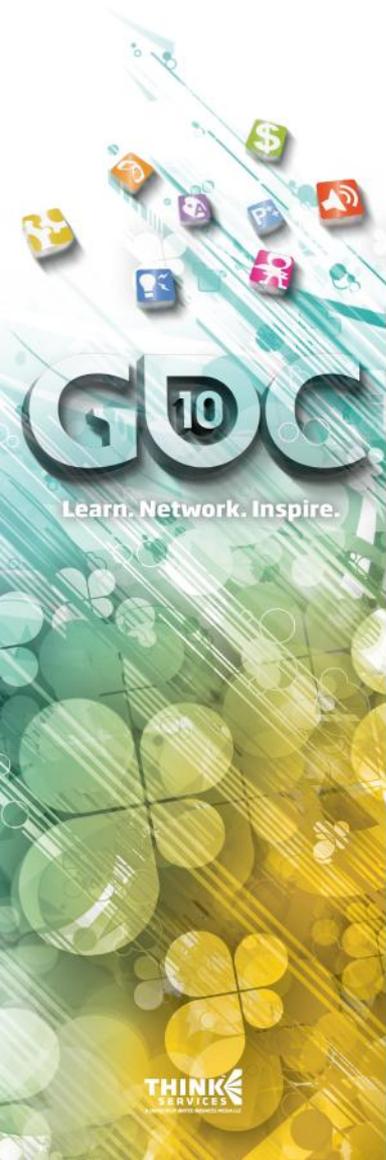
# Playing vs. Testing.

- ⊕ Know the difference! Spend most of your time testing.
- ⊕ Check your ego at the door: Test “losing” conditions as much as the “win” conditions.



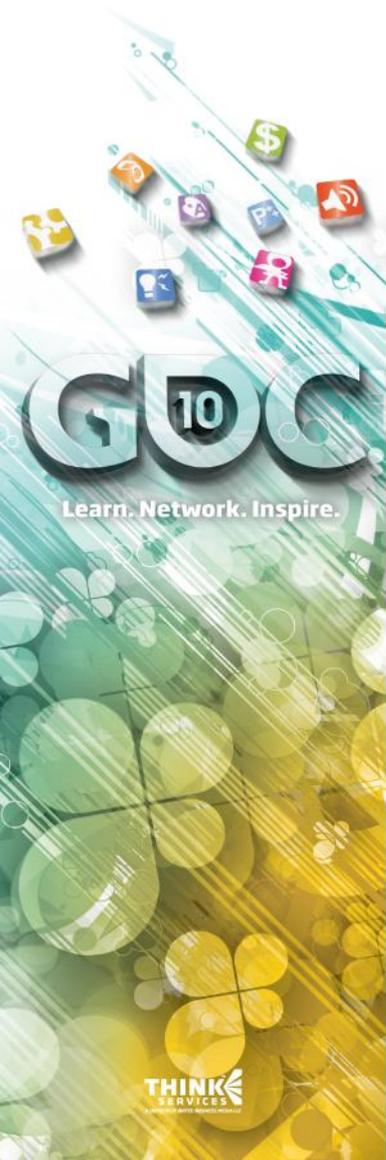
# Be Flexible.

- ④ QA testers/teams are used for a variety of tasks outside of traditional “testing.” Encourage this.
- ④ As a game nears completion, continually evaluate QA’s bugs and reprioritize as necessary.
- ④ *Recommendation: Use a prioritization scheme.*



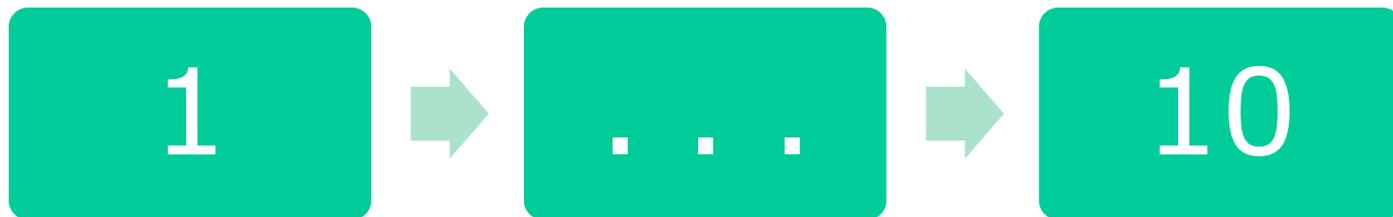
# Find and Report Bugs as Early as Possible.

- ⊕ Review the “save flow” when it’s a simple design on paper.
- ⊕ Look at early UI text to spot incorrect usage of platform naming conventions.
- ⊕ See if a tester can “find the fun” in an early build/prototype.



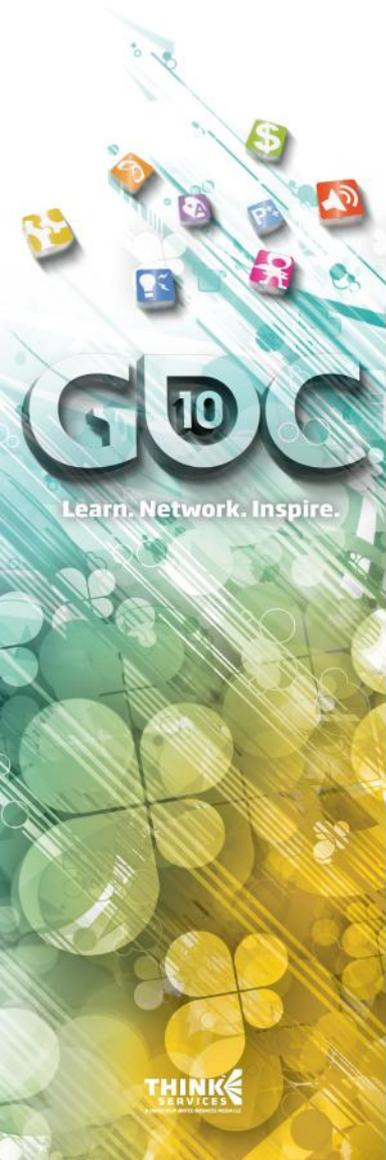
# Think like a Hacker.

- ④ Be creative in finding problems. Look beyond the surface.  
Examples: Exiting a room through a door, window, ceiling, or wall.
- ④ Don't simply test how the game is "supposed" to be played.



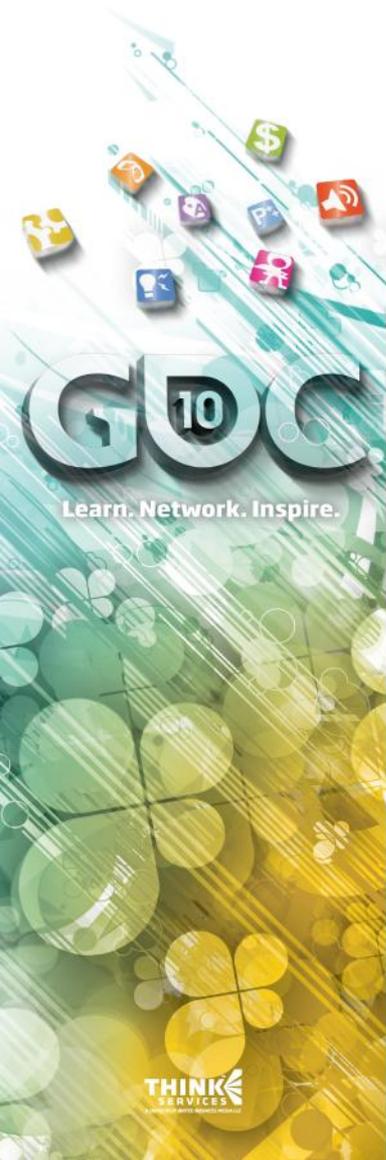
# Think like a Hacker (cont.)

- ④ 1-10 might be tested thusly:  
Test the #1, then the #2, then #3,  
and so on until 10.
- ④ What happens when you test #0?  
Or #-1?  
Or #1,002?  
Or #0.356?



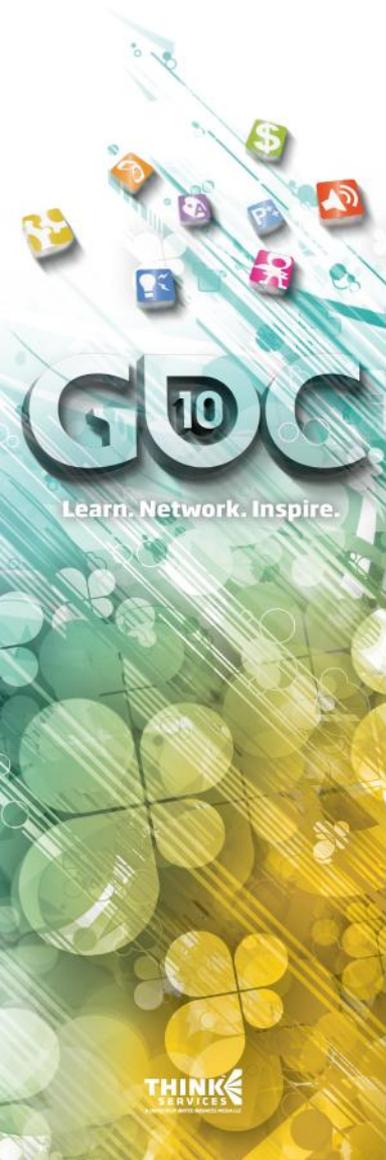
# Put in as much effort with your Regression as with the initial tests.

- ⊕ Also known as “Halo testing.”
- ⊕ Check for new bugs that are a result of the fixed bug.
- ⊕ Risk is *always* associated with any bug fix.



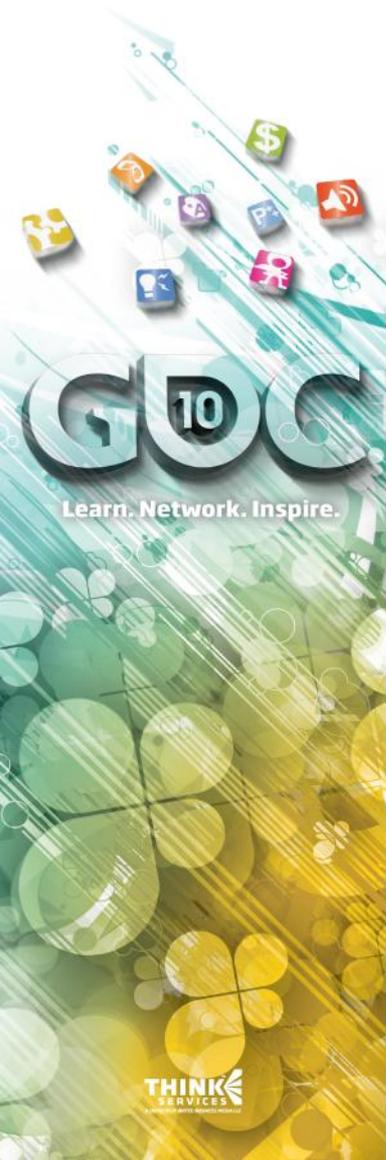
# Don't let QA members test designs they've championed.

- ⊕ QA testers are only human.
- ⊕ When a tester's design input becomes an in-game reality, he/she *cannot* be allowed to test it.



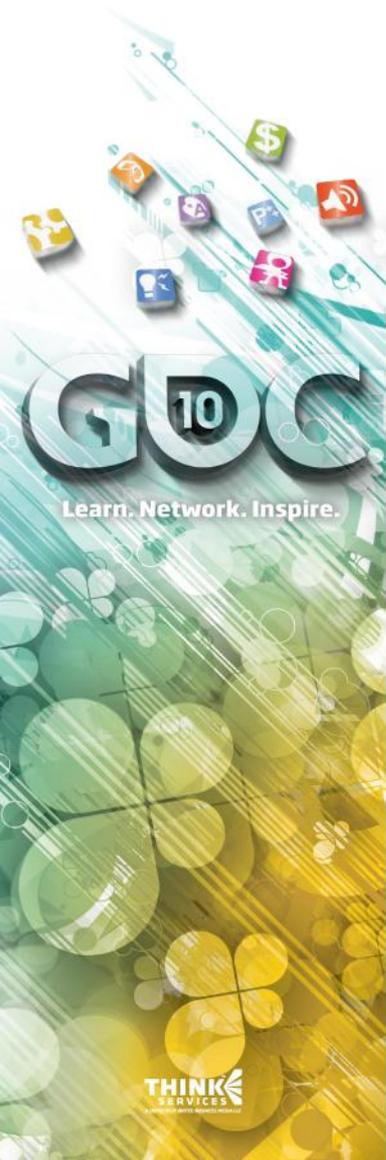
# Don't write sloppy bugs!

- ④ What is a tester's most valuable weapon?
  - Awesum gamr skillz?
  - Effective communication?
- ④ Spell and grammar check everything.
- ④ Ensure "steps to repeat" are clearly and concisely written.
  - Any developer who follows the steps should be able to repeat the bug.



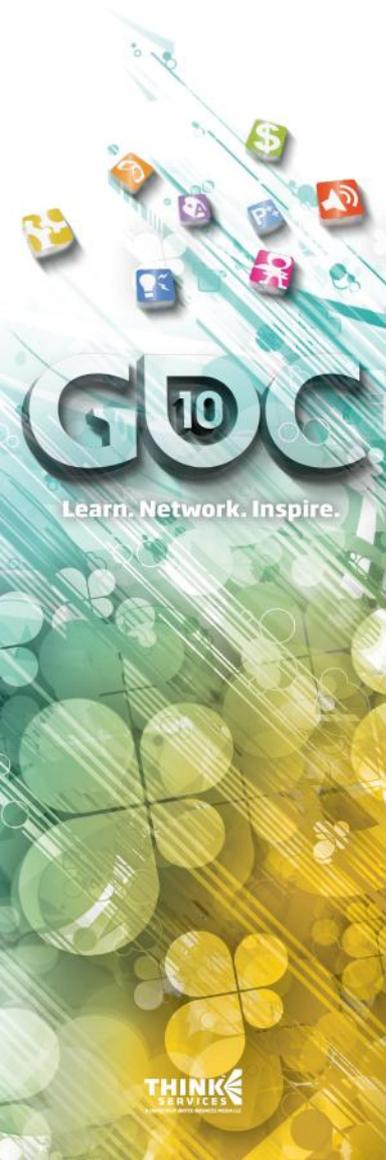
# Test everything.\*

- ④ Never assume any feature is bug-free.
- ④ Use test plans to help you test every feature in every (reasonable) way.
- ④ Good enough isn't.
- ④ \* *Perhaps not such an important rule any longer. More later.*



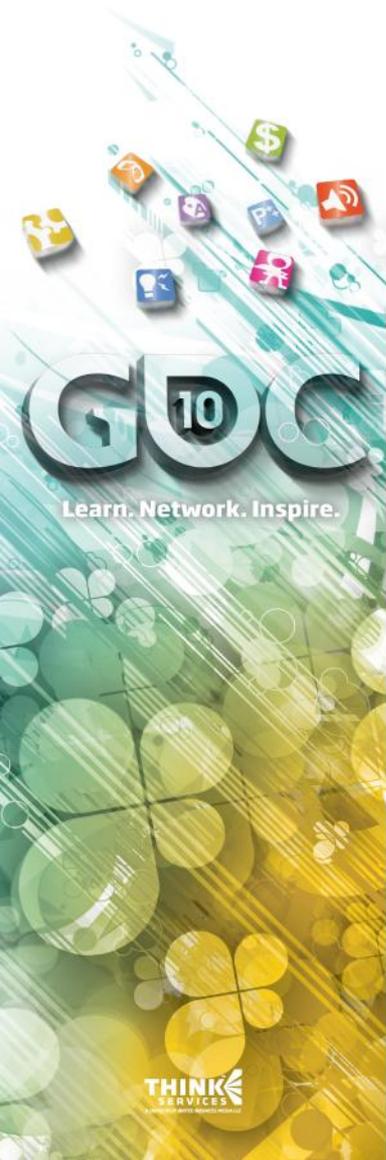
# Assume all bugs can be consistently reproduced.

- ④ It's not a question of whether it's reproducible, rather an ROI question.
- ④ Scientific Method helps a lot here.
- ④ If the tester doesn't have enough time to consistently reproduce, make sure the bug details a percentage.



# But, wait! There's more!

- ⊕ Possible additions:
  - Automate tests.
  - User testing.
  - The End is the Beginning.
- \* Test Everything.



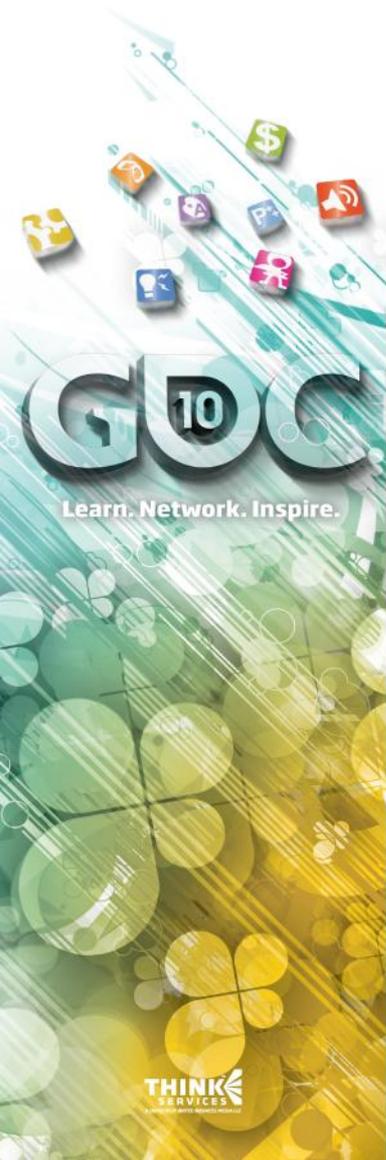
# Automate Tests

- ④ Identify tedious QA tasks that can be handled automatically.

Hire a QA tools programmer.

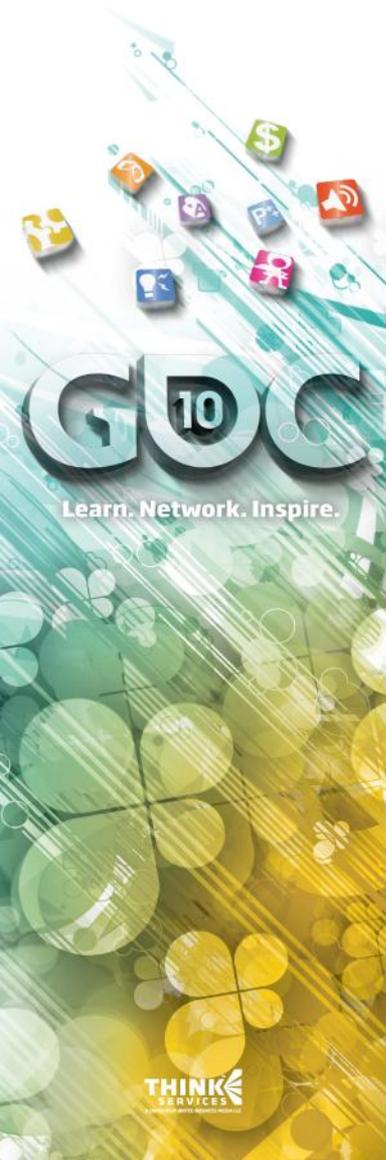
Encourage the dev team to devote some time to the task.

- ④ *Key point: Automated tests are only helpful if they're planned for in advance.*



# User Testing

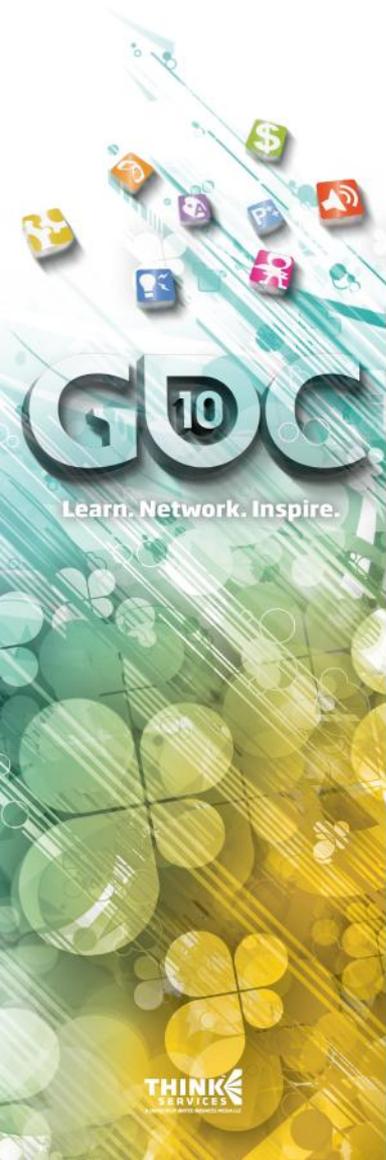
- ⊕ It's not QA testing!  
But it's equally important.
- ⊕ Don't sour the user tests with your preconceptions.
- ⊕ Learn to interpret "usability" feedback.  
What users want isn't always what they need.



# The End is the Beginning.

- ⊕ Increasingly, games see post-release updates.
- ⊕ Should your test strategies change?

Leverage modern business practices and technology to streamline your work.

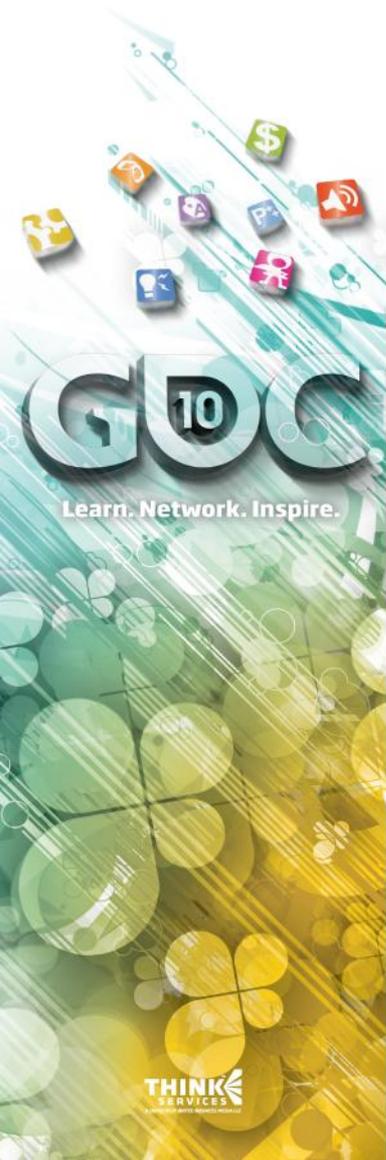


# \*Test Everything.

## 🌐 Food for thought:

Now that post-release development is common, is this commandment necessary?

Is “good enough,” good enough?



# Thank You!

- ⊕ Questions?
- ⊕ Comments?
- ⊕ Performance Art?

