How We Test @ Microsoft

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http://www.testingmentor.com/imtesty
When I grow up, I want to be a SOFTWARE TESTER!
Nearly 300 Products Released in 12 Months

About 39 different language versions (> 50 additional language packs)

Windows Phone
Put people first.
Product testing

- @ 9800 testers worldwide
- >7.5 million automated tests for Windows 7
- @ 15 million bugs per year
- > 125,000 lab machines
- > 500 builds per day
Tester profiles

Computer science graduates, but also:
- Electrical engineering
- Mathematics
- Other engineering
- Other science

Traits
- Problem solving, creativity, observation
- Self-motivated, “pro-active”
- Adaptability, fast learner
- Communication
Each project team ‘reasonably’ autonomous
Dev & test equal partners, but separate orgs
Testing approaches

“Black-box”
- Exploratory testing
- Pre-defined test cases
- Automation (API & GUI)
- End-2-end customer scenarios
- Self-hosting & dogfooding

“White-box”
- Code reviews and inspections
- Coverage analysis
Testing lifecycle

Test Strategy
Defect prevention & Upstream Quality

Prioritize
Design
Implementation
Analysis
Measure
Productivity tools

Test generation, static and dynamic analysis
Manual testing

Microsoft Internet Explorer has encountered a problem and needs to close. We are sorry for the inconvenience.

If you were in the middle of something, the information you were working on might be lost.

- Restart Microsoft Internet Explorer

Please tell Microsoft about this problem.
We have created an error report that you can send to help us improve Microsoft Internet Explorer. We will treat this report as confidential and anonymous.

To see what data this error report contains, click here.
Big wins!

- Hiring the right people
- Training
- Removing the promotion “glass ceiling”
- Automation investments
- Dev/test relationship
- Test patents
- Customer feedback tools
Big challenges!

- Automation (esp. GUI and oracles)
- Test matrix explosion
- Software complexity
- Sustained engineering
- Tester “burn out”
- Testability
- Meaningful measures
- Future computing paradigms
Connected Culture

Cloud Services
Questions