CSE 403 Lecture A

Prioritizing Bugs

http://www.ericsink.com/articles/Four_Questions.html http://blog.cardbox.com/2005/12/02/the-0th-rule-of-bugassessment/ http://michaellant.com/2010/05/25/a-simple-agile-defectmanagement-process/

Four questions to ask (Sink)

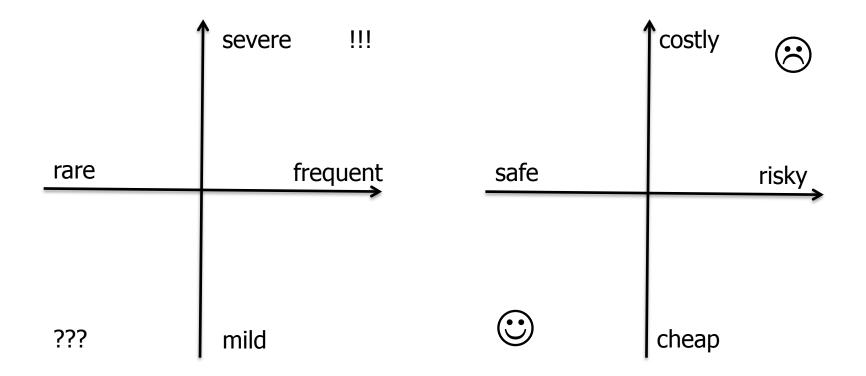
- 1. "(Severity) when this bug happens, how bad is the impact?
- 2. (Frequency) How often does this bug happen?
- 3. (Cost) How much effort would be required to fix this bug?
- 4. (Risk) What is the risk of fixing this bug?"

Customer vs. Developer (Sink)

- Customer
 - Severity & Frequency

• Developer

– Cost & Risk



Oth question (Cardbox)

 "Question 0. Do you know exactly what is causing the bug, and how?

– If the answer is No, do not rest until the answer is Yes.

- The 0th law of bugs is that **most bugs, most of the time, do** their damage invisibly.
- It follows that Rule 0 of quality control is If you see something go wrong, drop everything and find the underlying bug. If the problem disappears before the bug is found (for instance, if a modification elsewhere in the program makes it go away), then panic."

Scope vs. Severity (Lant)

- "Scope: How many users are affected or how much of the system is affected
- Severity: How critical is the defect i.e. data loss, data corruption, cosmetic issues, etc..."

Scope (Lant)

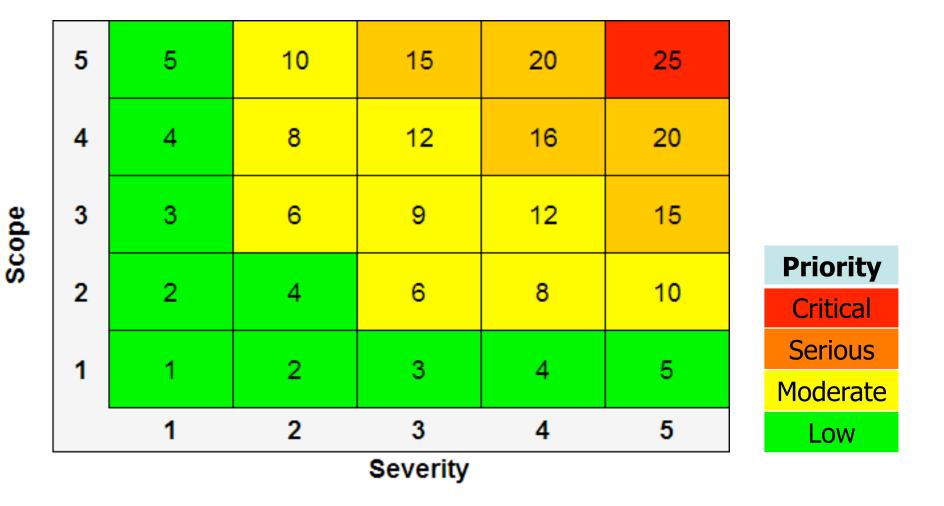
Value Guideline

- 5 Affects most or all users and/or a very larger range of system functionality
- 4 Affects a large set of users and/or large range of system functionality
- 3 Affects a moderate set of users and/or moderate range of system functionality
- 2 Affects a small set of users and/or a small range of system functionality
- 1 Affects a minimal set of users and/or a very small range of system functionality

Severity (Lant)

Value	Guideline
5	Data loss, data corruption or system unavailable
4	Important functionality is unavailable with no workaround
3	Important functionality is unavailable but has a reasonable workaround
2	Secondary functionality is unavailable but has a reasonable workaround
1	Cosmetic issues or some functionality unavailable but has a simple workaround

Priority Matrix (Lant)



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