

Context for Game Design

- Game development is an agile development process.
 - Incremental development
 - Demonstrable product
 - Product milestones
 - Small groups
 - Changing requirements
 - Unexpected developments

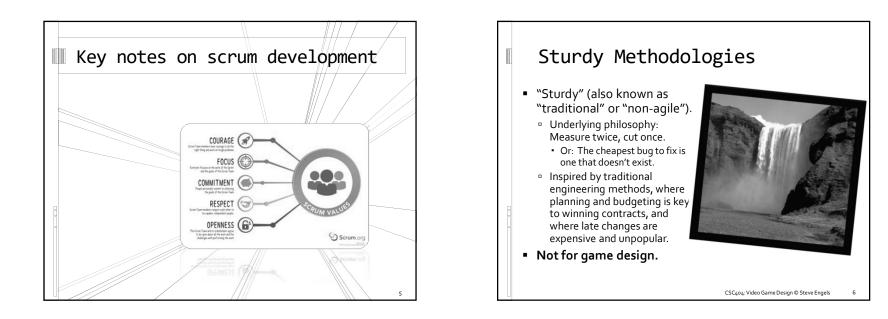
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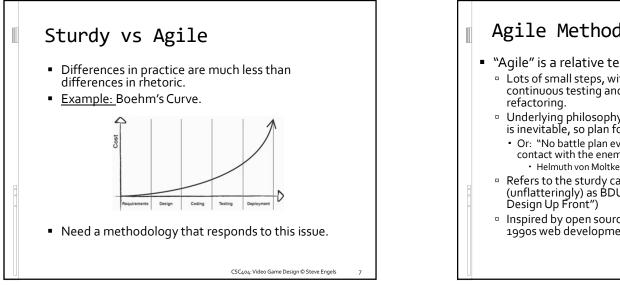
Recommended approachConstant communication

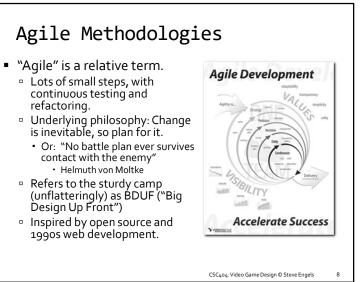
- Working build
- Shared workspace
- Team development
- Prioritize features
- Playtesting Playtesting Playtesting!

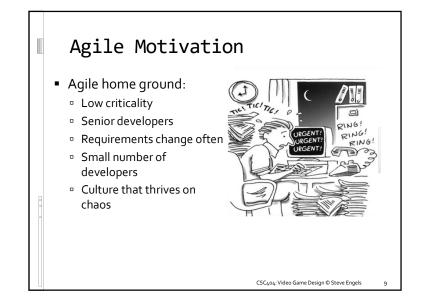
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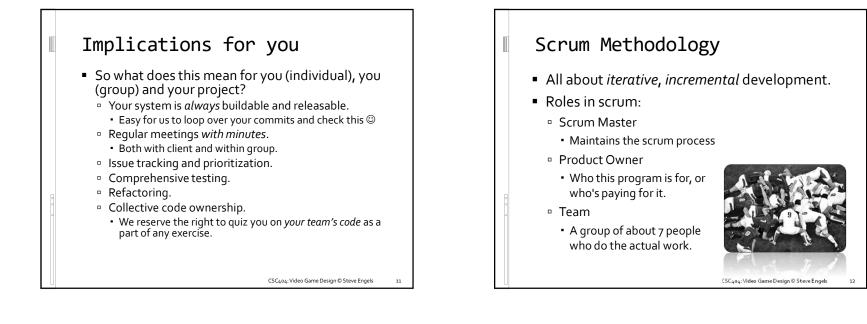


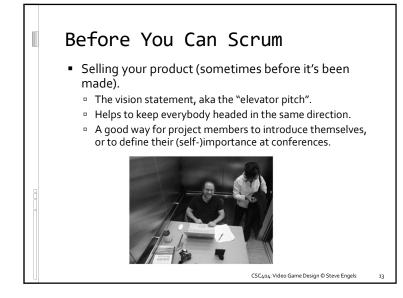


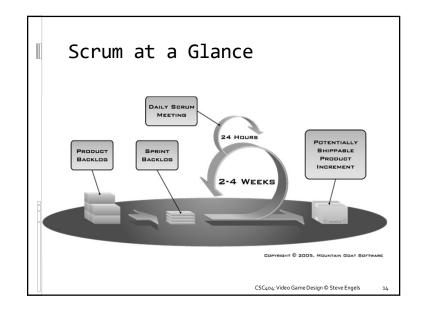
Sturdy vs Agile

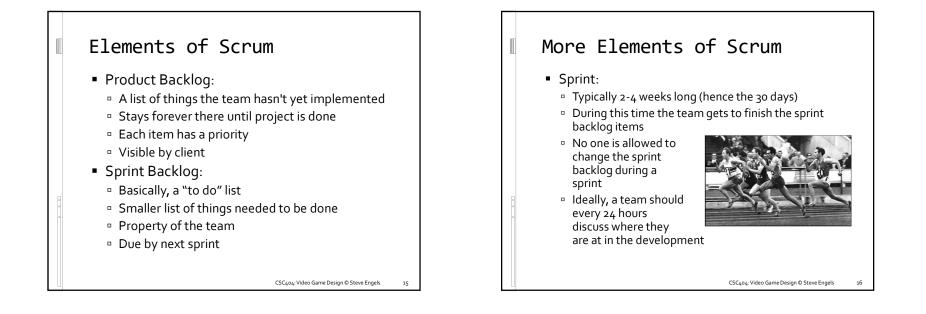
- "Reality is that which, when you stop believing in it, doesn't go away." -- Philip K. Dick
- It's hard to get customers to sign off on "we'll make it up as we go along" and "trust me".
 - The waterfall method feels familiar and credible.
 - On the other hand, most scientific research is agile.
 - The second agile project is easier to sign off on than the first.
- "Adapting to change" is good, but "constant change" seems sloppy.
- Is "continuous refactoring" the same thing as "better late than never", or a sign of "code first, ask questions later"?

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Justification for Scrum

- Scrum takes into account:
 - Things will fall apart because humans are involved.
 - Accept that this problem can't be solved.
 - Work to instead get as much done as possible.
 - Tools
 - Does not discriminate (backlog can be in Excel)
 - Organization
 - Lots of communication is required (lots of meetings/updates)
 - Everybody needs to know how the project is doing.

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Scrum Example: Thanksgiving Dinner

- Roles
- User stories
 No technical details.
- When complete, no further consultation with user necessary.
- Product backlog
- User-side requirements.
- User sets priority of each item.
- Sprint goals, backlog
- Developer-side items.
- Team sets priority of items (prioritization chart).
- Burn down chart

 Chart of work remaining in sprint backlog.



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Burn Down Chart Sample Burndown Chart 250 200 150 Completed tasks 100 - Ideal burndown -Remaining tasks 50 0 If Steve was more diligent, this would be filled with dinner items. Oh well. CSC404: Video Game Design © Steve Engels 19