

### Context for Game Design

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

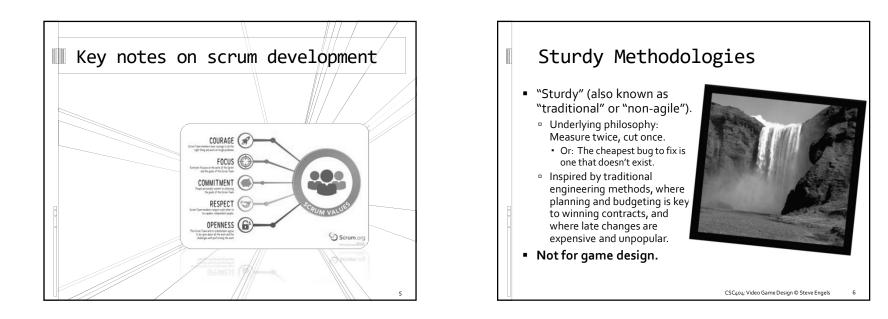
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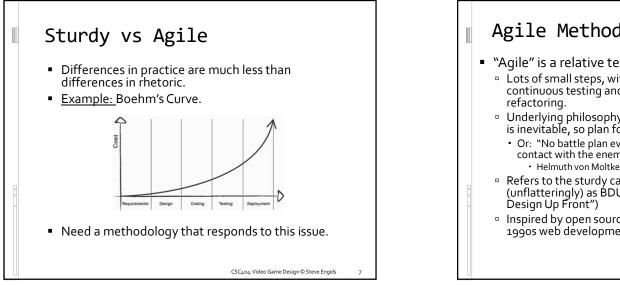
# Recommended approachConstant communication

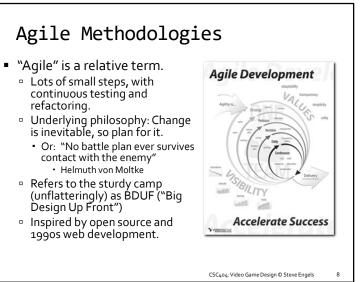
- Working build
- Shared workspace
- Team development
- Prioritize features
- Playtesting Playtesting Playtesting!

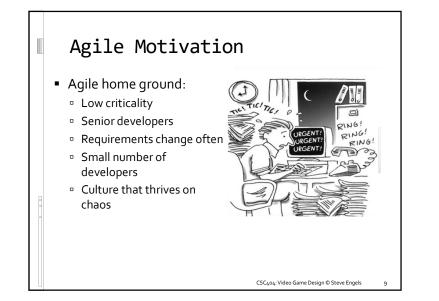
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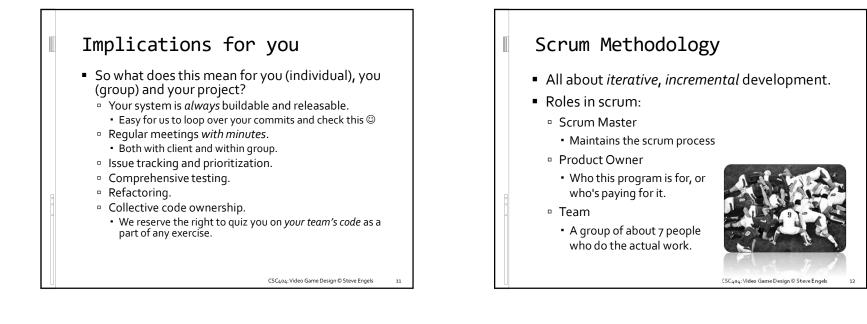


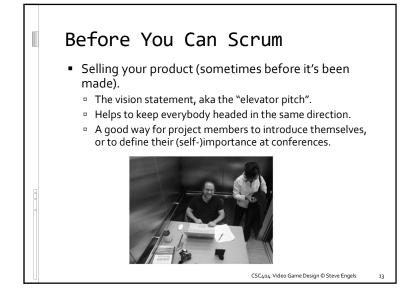


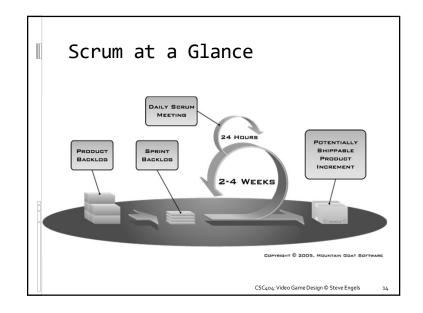
## Sturdy vs Agile

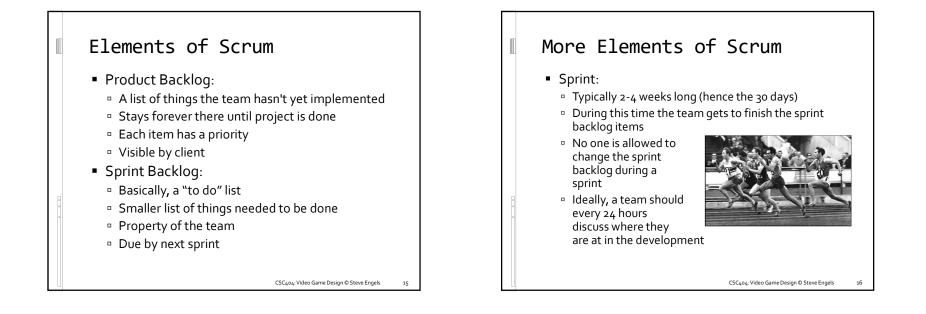
- "Reality is that which, when you stop believing in it, doesn't go away." -- Philip K. Dick
- It's hard to get customers to sign off on "we'll make it up as we go along" and "trust me".
  - The waterfall method feels familiar and credible.
  - On the other hand, most scientific research is agile.
  - 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