

Iterative Model

- · Also called "incremental development"
- Addresses some common waterfall risks
 - Risk that software cannot be completed build incremental subsets
 - Risk of building the wrong system stakeholder have opportunities to see the software each increment
 - Each iteration provides checkpoint for feasibility, schedule, budget and others issues

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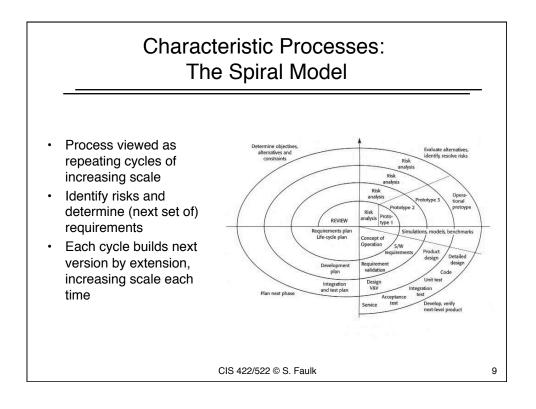
Advantages of Incremental Development

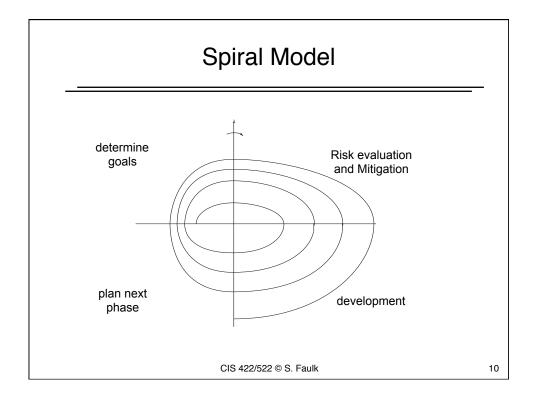
- Customers get usable functionality earlier than with waterfall
- Early feedback improves likelihood of producing a product that satisfies customers
 - Reduces market risk: if customers hate the product, find out before investing too much effort and money
- The quality of the final product is better
 - The core functionality is developed early and tested multiple times
 - Only a relatively small subset of functionality added in each release: easier to get it right and test it thoroughly
 - Detect design problems early and get a chance to redesign

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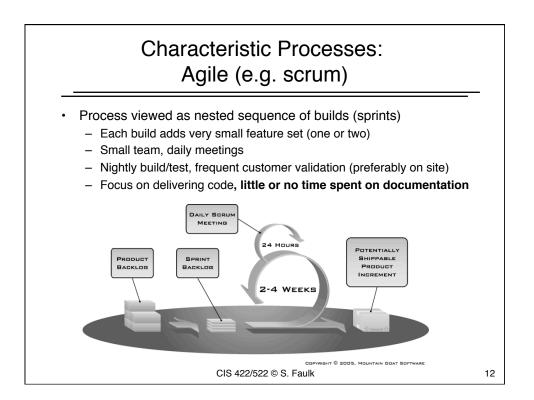


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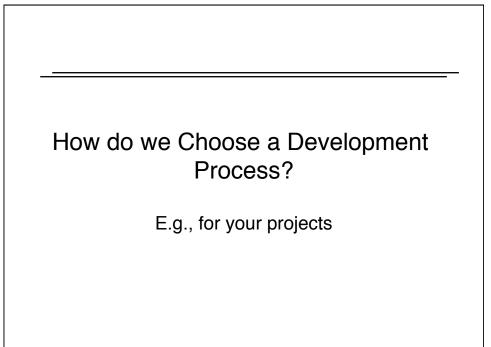


- Response lack of explicit risk analysis and risk mitigation in "waterfall" process
- Includes risk analysis and mitigation activities at each phase (e.g., prototyping)
- Explicit Go/No-Go decision points in process
- "Heavy-weight" process: substantial overhead not contributing directly to end products

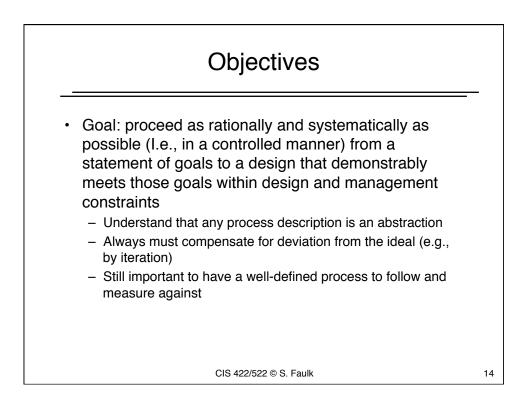
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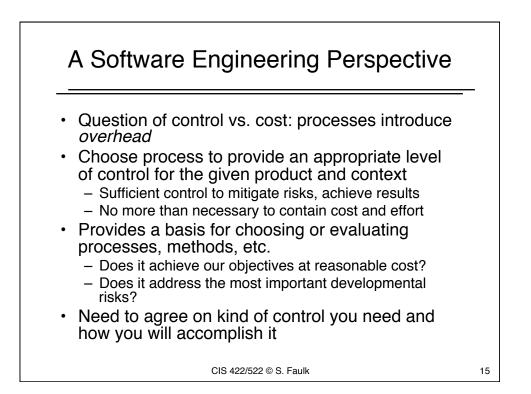
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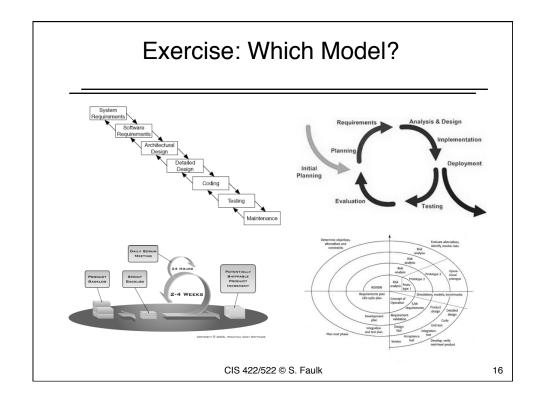


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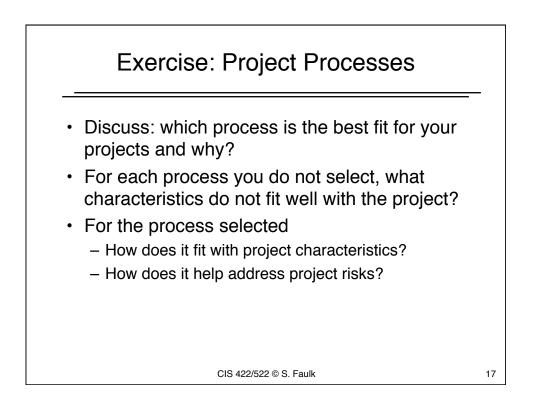


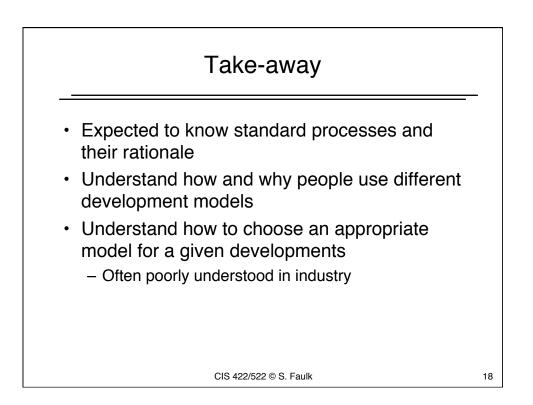


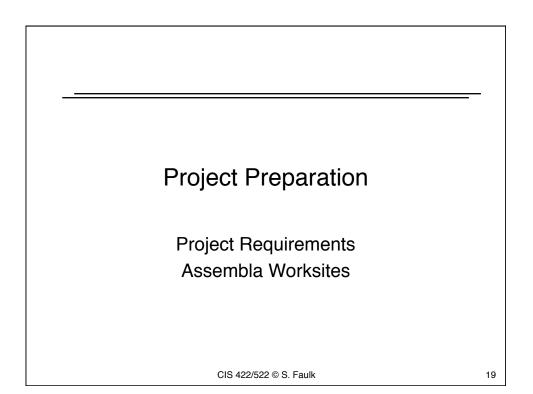


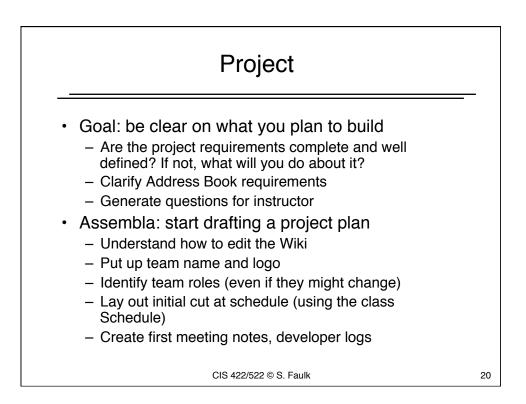












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- Monday: "stand-up" meeting. Each team gives a 2-3 minute summary of progress against plan (see "Deliverables" on Schedule page
 - What was accomplished
 - What is planned for the week
 - Any problems or obstacles to progress

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