Ending

Course Summary













Overview

- Quick Recap of Development
- Ask Questions
- The most important factor in software work is not the tools and techniques used by the programmers, but rather the quality of the programmers themselves.
 - Facts and Fallacies of Software Engineering, Robert Glass





Structure: Process, Team

- Why do we need process?
- Team structures
- Project Structures
- Question:
 - What is a project?





Approaches

- Development Approaches:
 - Waterfall, Iterative, Agile
- Project Management Approaches:
 - PRINCE2
 - Project Management Professional (PMP)
 - IPMA Approach
- Development and Management Approaches can work together





Runaway Projects

- Question:
 - Why do projects either:
 - Fail
 - Go over budget
 - Spiral out of control
 - Have to reduce scope





Possible Causes

- Poor Estimation
- Unstable Requirements
- Missing Requirements
- Changing Team
- Changing Focus





Estimation

- No single way
- Expert/Experience vs Algorithmic
- Use both to create bounds on estimate
- Difficult but Why?





Testing

- What should we test?
- When should we test?
- Who should test?





Requirements

- Not an easy task
- Requires focus
- Mediation
- Methods of capture





Prototyping and Thinking

- What is the first thing to do on a problem?
- How do we test ideas?
- Importance of Prototyping





Project Reviews

- Why do a review?
- Who should be involved?
- Types of Review?





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Topics

- Ethics and Safety in Design and Use of Software
- Testing Issues
- What else?





Topics for Discussion

- Ethics
 - Safety
 - Responsibility
 - Effects
- Testing
 - Limits
 - Confidence
 - Standards?
- Work
 - Balance
 - Professionalism
 - Becoming Obsolete



