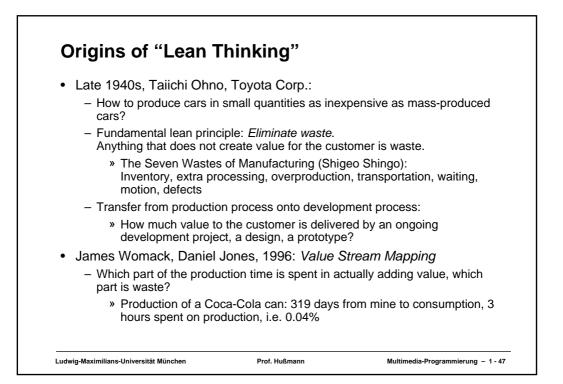
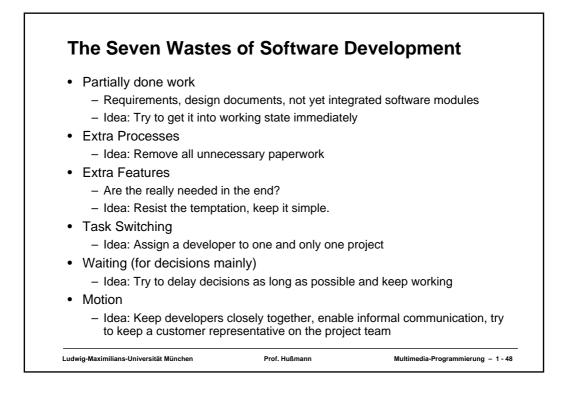
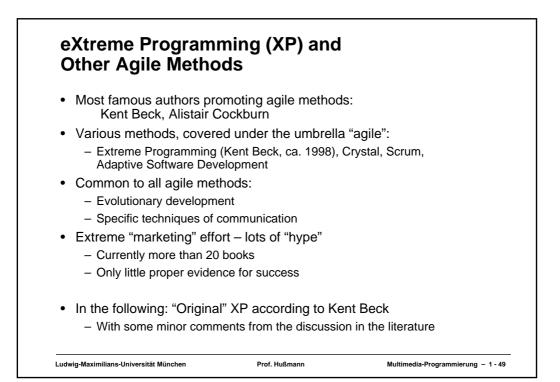
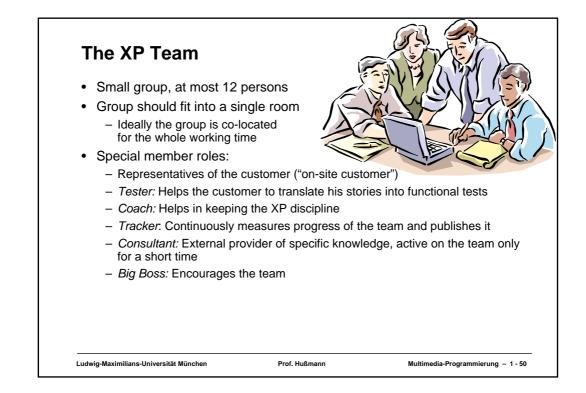


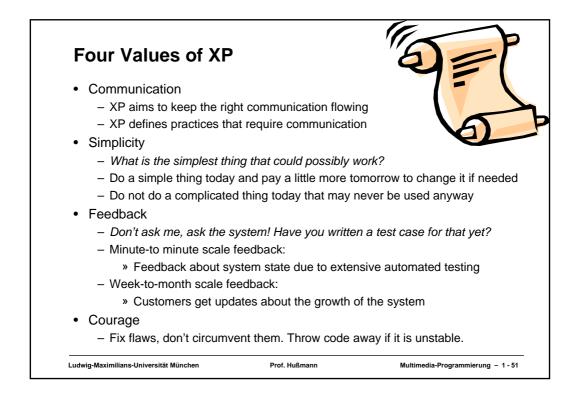
Rationale for Agile Development Pace of change makes waterfall-like development processes difficult - Development project has to be able to react at all times to changes: » "agile: able to move quickly and easily" (Webster's New Dictionary) Industrial development process standards create large overhead - "Travel light" (Kent Beck) - "Lean development", "lightweight methods" Important activities are not liked by developers in traditional approaches - Specification, documentation, quality assurance Tendency towards small, short-lived projects The whole industry gets more agile (short product development cycles) Advances in technology Object-oriented programming - Frameworks & patterns Automated testing Integration of documentation and code Prof Hußmann Ludwig-Maximilians-Universität München Multimedia-Programmierung - 1 - 46

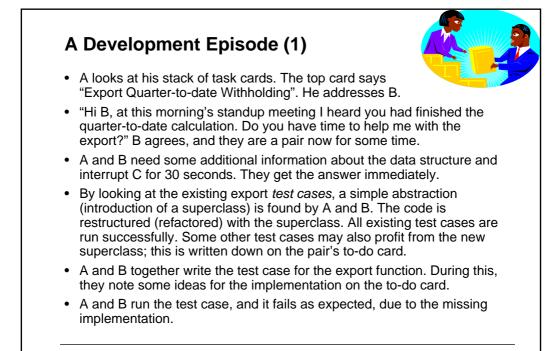








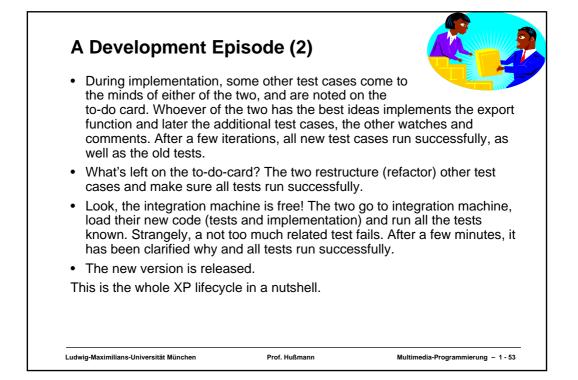




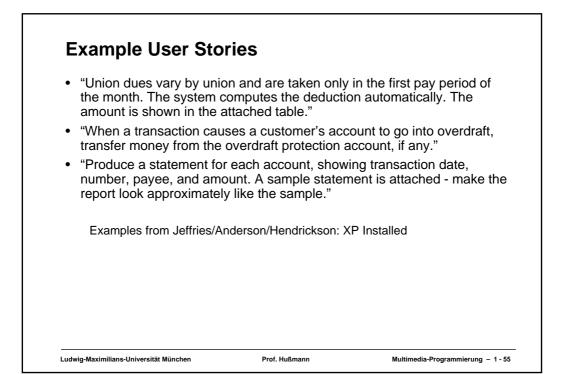
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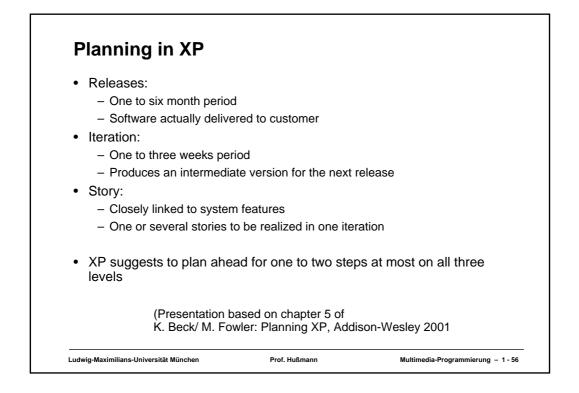
Prof. Hußmann

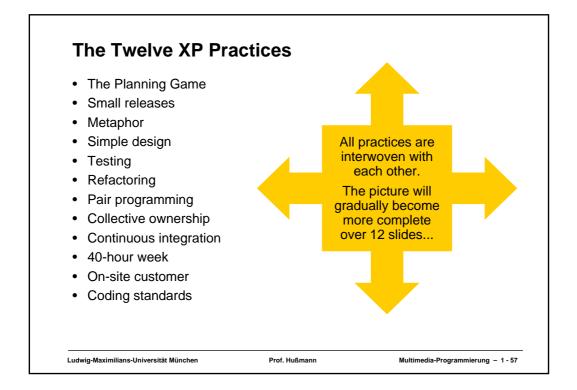
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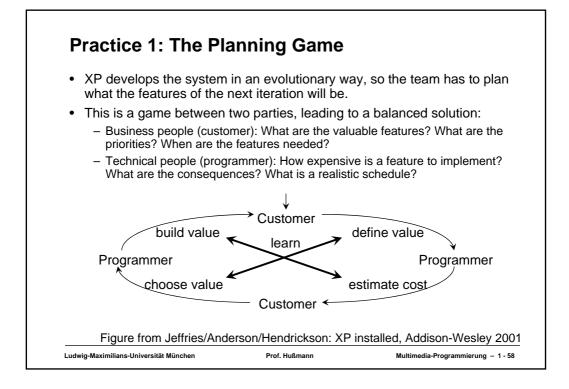


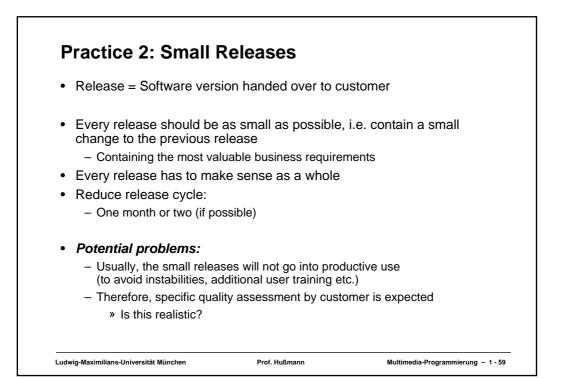
User Stories "Each user story is a short description of the behaviour of the system," from the point of view of the user of the system. In XP, the system is specified entirely through user stories." (R. Jeffries, A. Anderson, C. Hendrickson, XP Installed, Addison-Wesley 2001, p. 24) Preparation: - Everybody (representing the customer) gets a card, tries to scribble on it and tears up the card. Process: - Customer writes story on card, possibly in iterations - Programmers "listen" - ask questions just for clarification - Stories are promises for conversation How many: - At least one per feature - One story implementable in a few days to a few weeks time Ludwig-Maximilians-Universität München Prof Hußmann Multimedia-Programmierung - 1 - 54

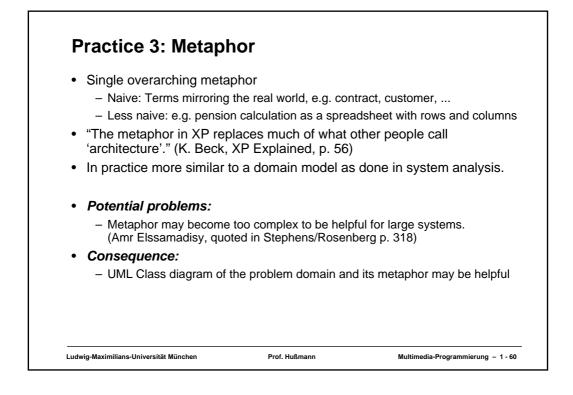


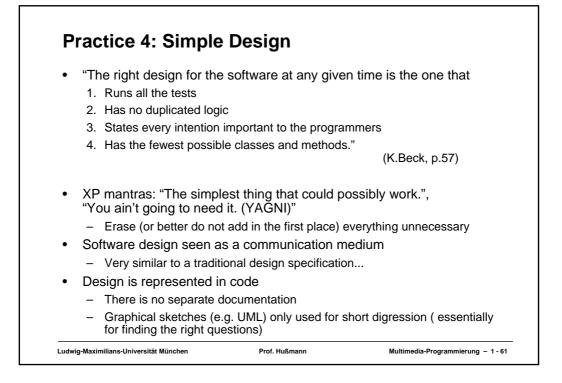


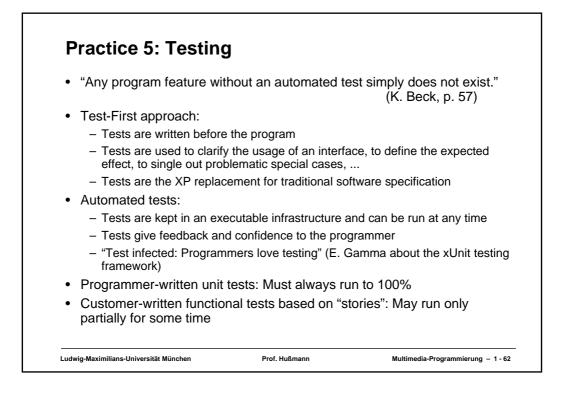




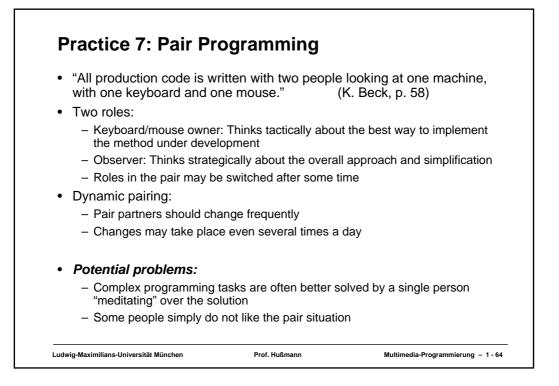


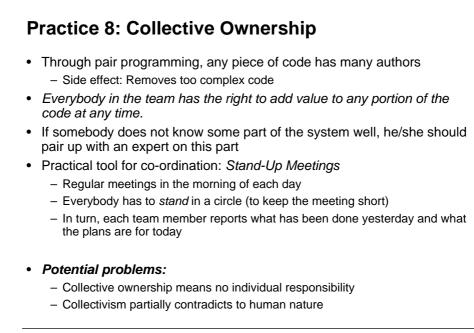


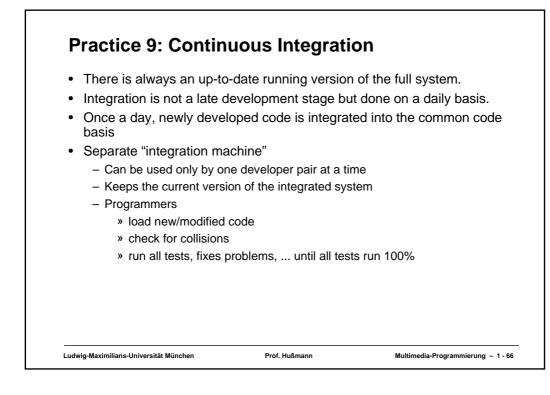


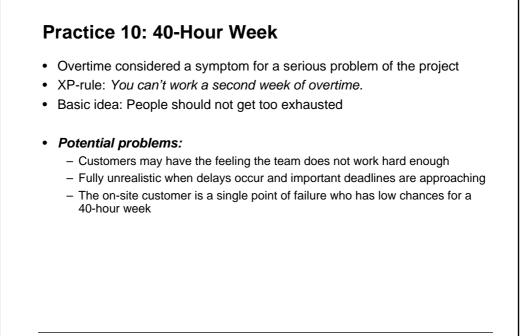


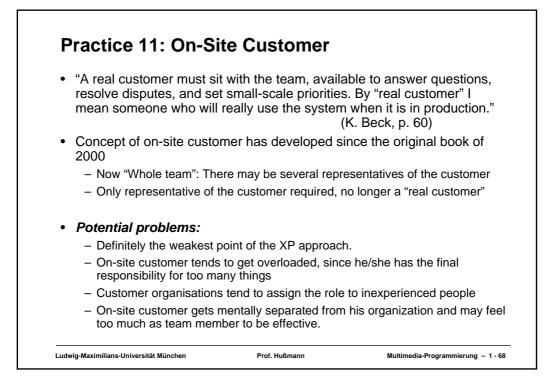
Practice 6: Refactoring Adding new features in an arbitrary way will lead to ill-structured code When adding a new feature, the structure of the system may need to be adapted (refactored) - Refactoring may remove code, introduce new code but keeps the functionality unchanged (all tests run 100%) - Simple steps like combining parameters of a method into a data structure Complex steps like applying design patterns This is done only when necessary to keep the solution simple: - Main reason for refactoring: To avoid duplication of logic - Possibly other reason: Smaller and more elegant design after introduction of new features How can we be sure not to destroy working functionality by refactoring? - Use automated tests Refactor first, run the tests, then add the feature, run the enhanced tests Ludwig-Maximilians-Universität München Prof. Hußmann Multimedia-Programmierung - 1 - 63

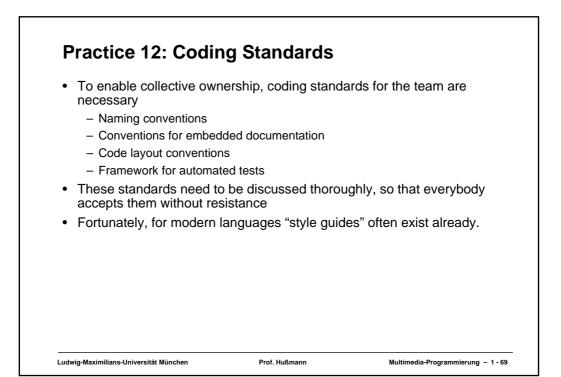












" I ł just 'l launo had j	Age Attitude: nad an epiphany. I went back to where Kent was and said that we were palancing hopes and fears'. We had focused on our hope that we could th the system as planned and our fear that we wouldn't. Kent told me that ust 'snatched the pebble from the master's hand.''' . Jeffries, A. Anderson, C. Hendrickson, XP installed, p. 196)
• Food:	
	e is something powerful about breaking bread with someone." . Beck, p. 74)
XP p	rojects are assumed to have snack food available all the time.
Contra	acts:
subs amou	ad of fixed price/date/scope, the XP team offers something more like a cription. The team will work top speed for the customer for a certain unt of time" . Beck p. 160)

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