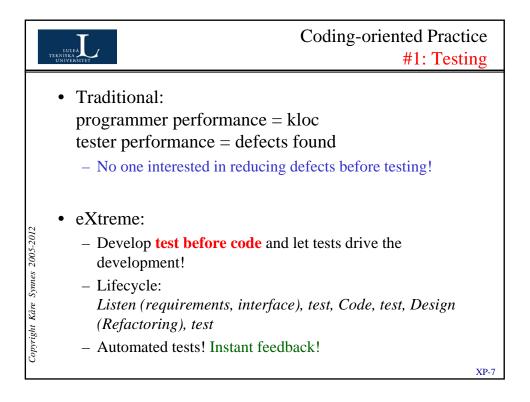
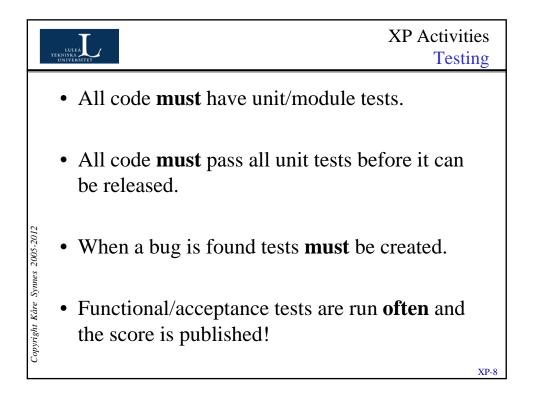
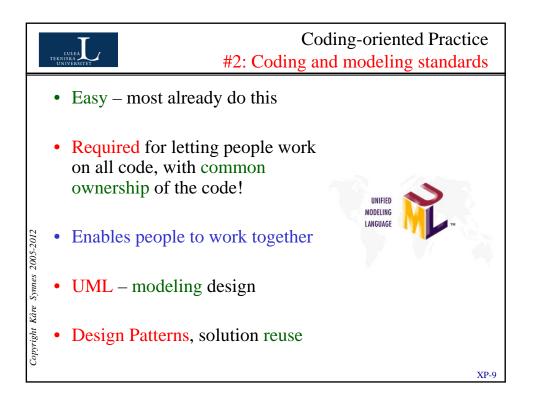
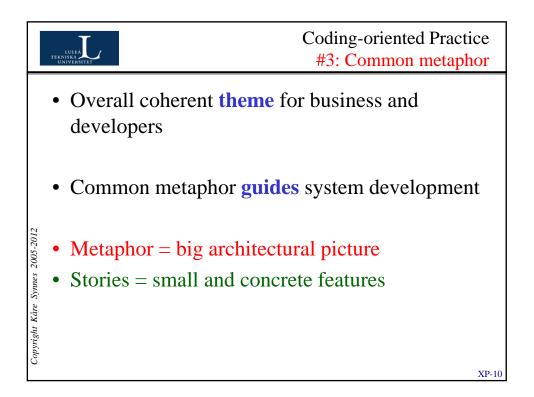


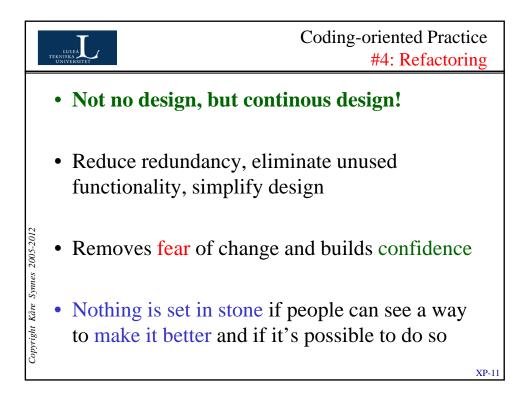
	IUIEA TEKNISKA UNIVERSITET	The 12 Practices
	Coding-oriented practices #1 Testing #2 Coding standards #3 Common metaphor	Social, Psychological, and Organizational Practices #8 The planning game #9 Pair programming
	#4 Refactoring	<ul><li>#10 Collective ownership of code</li><li>#11 40-hour week</li></ul>
Synnes 2005-2012	Design-oriented practices #5 Simple design	#12 On-site customer
Copyright Kåre Synnes	<ul><li>#6 Small releases</li><li>#7 Continuous integration</li></ul>	<ul> <li>Bonus Practices</li> <li>Small steps*</li> <li>Stand-up meetings*</li> <li>Continuous learning*</li> </ul>

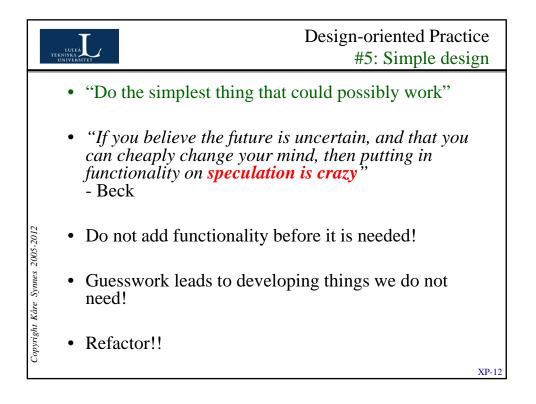


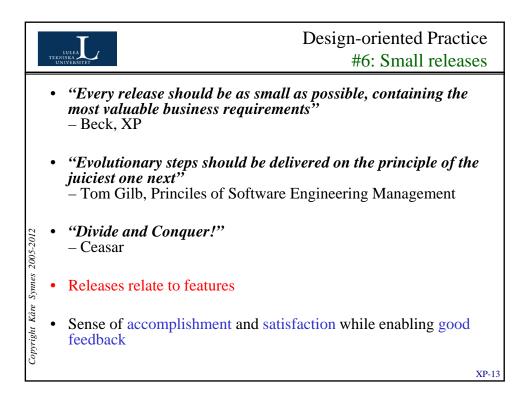


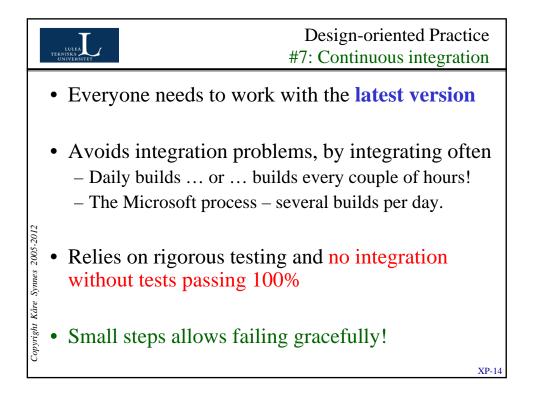


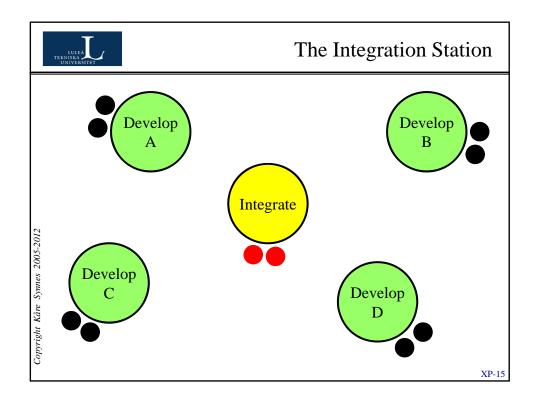


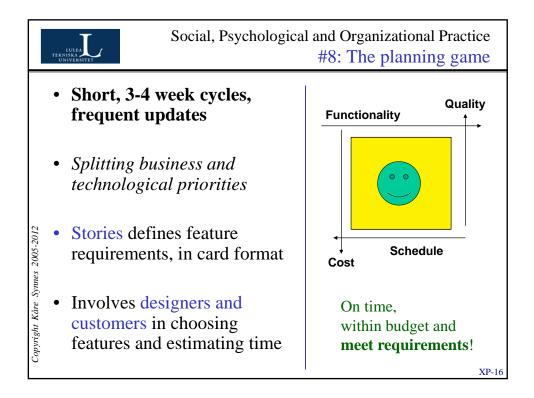


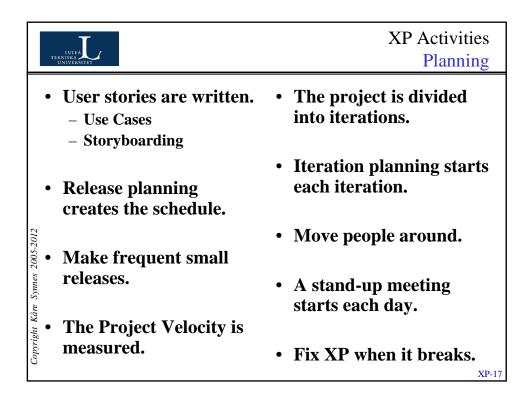


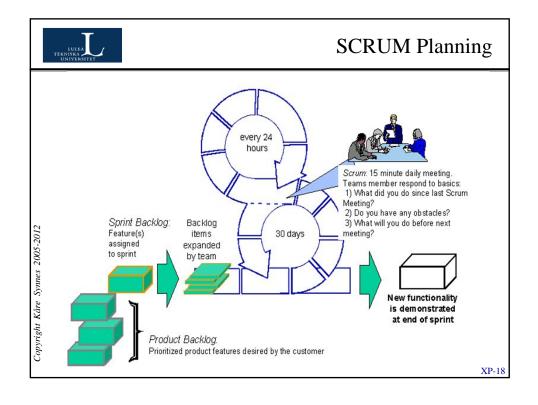


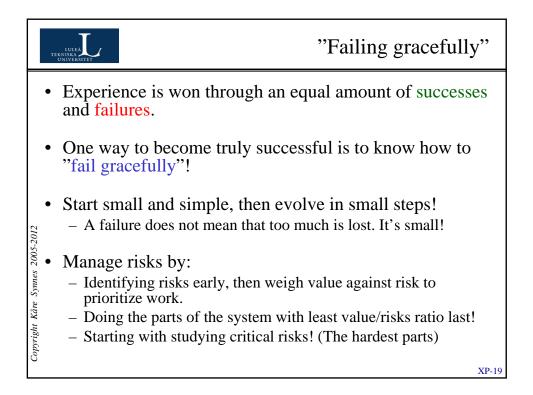




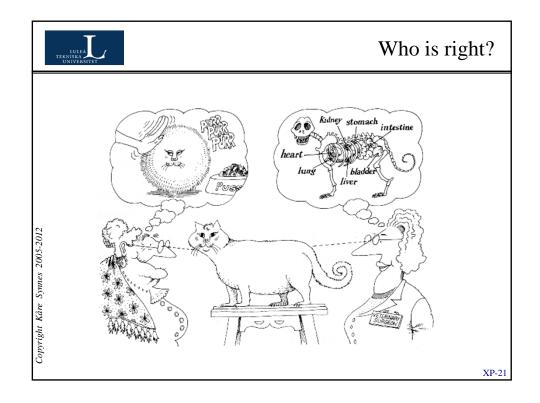




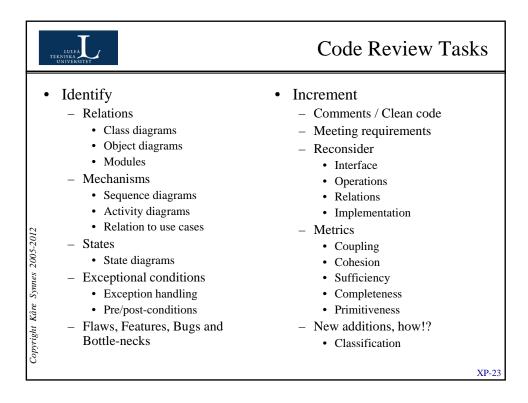


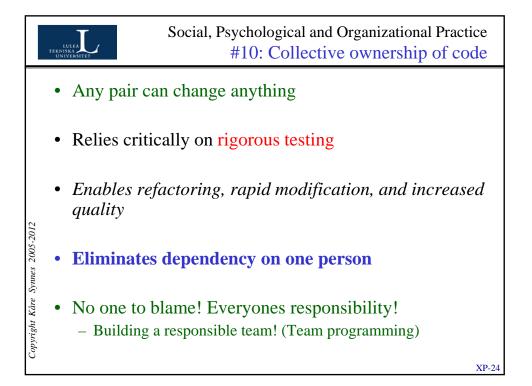


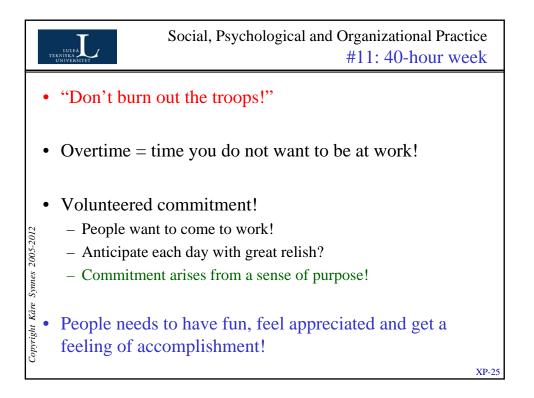
Social, Psych	Social, Psychological and Organizational Practice #9: Pair programming		
• All code is written by 2 people at one machine	• Pairs change often		
• One person tactical (writing code and tests), the other strategic (reviewing and thinking)	<ul> <li>Quality is a big win</li> <li>People stay more focused and 'on target'</li> </ul>		
<ul> <li>Time to isolate defect:</li> <li>15 hours per defect testing</li> <li>2-3 hours per defect using inspection</li> <li>15 minutes per defect before inspection!</li> <li>Few minutes with pair programming!!</li> </ul>	<ul> <li>Inspection! Code reviews and Walkthroughs.</li> <li>Collaborative interaction</li> <li>Speed learning, better programming practices</li> <li>Uncover and prevent defects, cost-efficiently</li> </ul>		

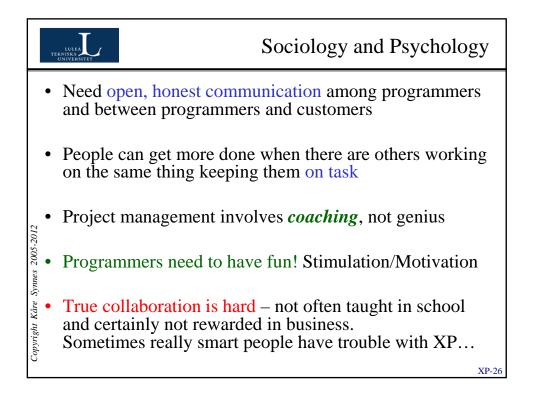


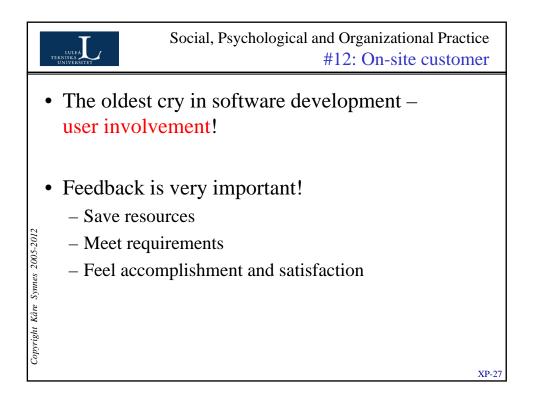
LU TEKNISI UNIV	ULEÀ KA VERSITET	C	ode Review
	•	Weekly for a team of designers/developers	
	•	Share information about the system – Redundancy!	
012	•	Create a common view of the system!	
Copyright Kåre Synnes 2005-2012	•	Documents the code design – Diagrams in UML	
ght Kåre Sj	•	Find flaws, bugs, features and bottlenecks	
Сорупі,	•	Classification!	XP-22



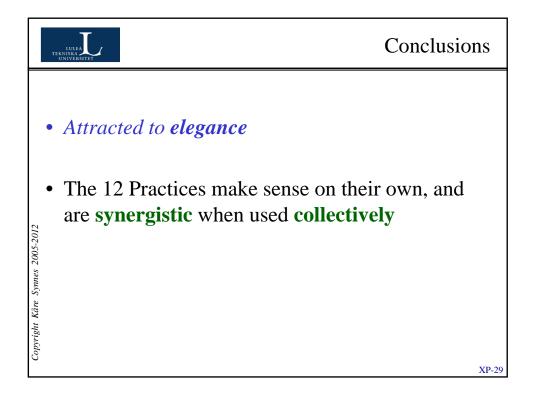


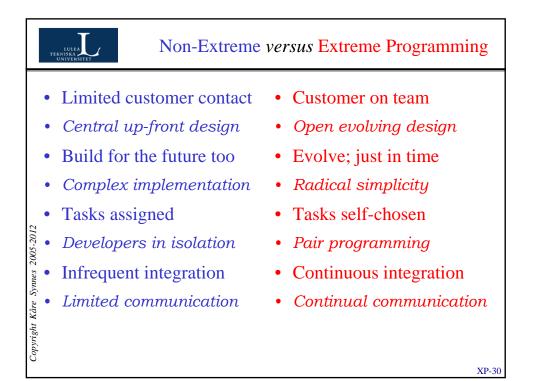


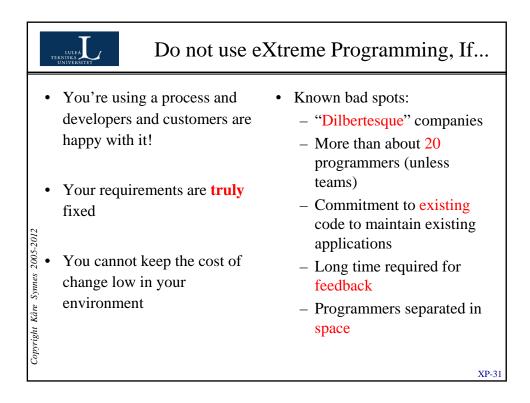


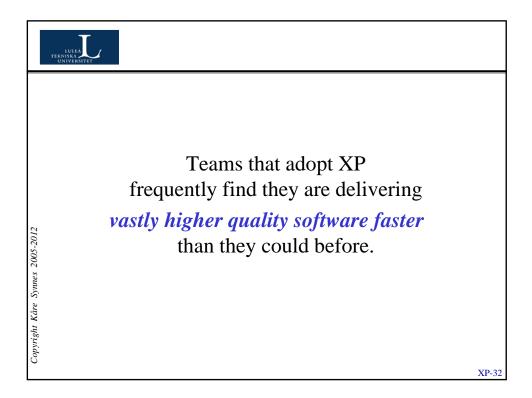


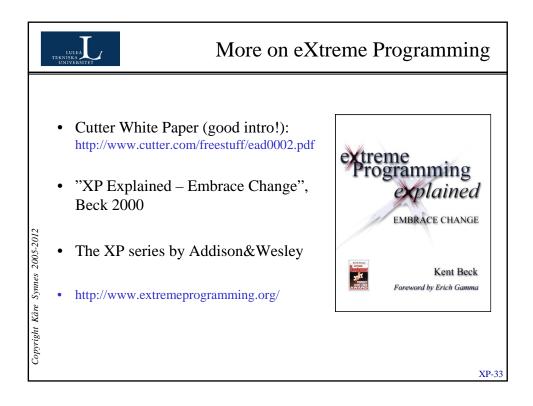
LUIEA TEKNIKA UNIVERSITET	XP Activities Coding
• The customer is always available.	• Only one pair integrates code at a time.
• Code must be written to agreed standards.	• Integrate often.
• Code the unit test first.	• Use collective code ownership.
• Code the unit test first. • All production code is pair programmed.	• Leave optimization till last.
	XP-28

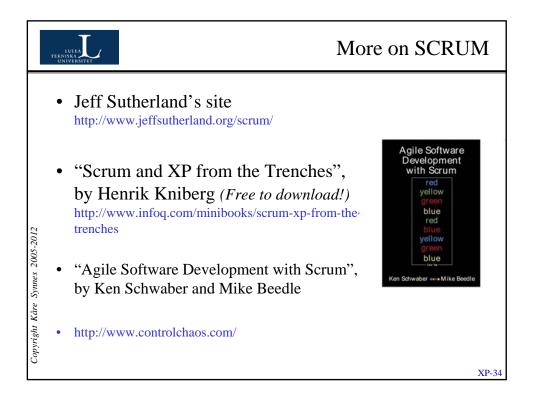


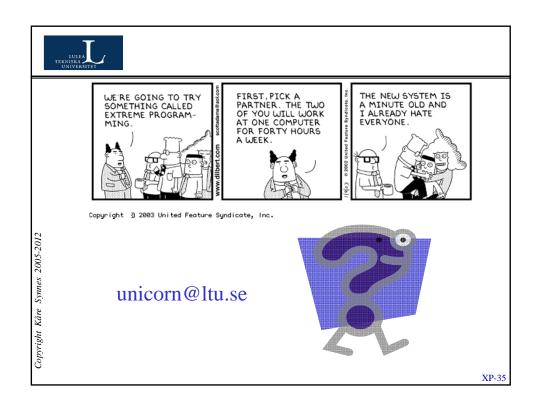


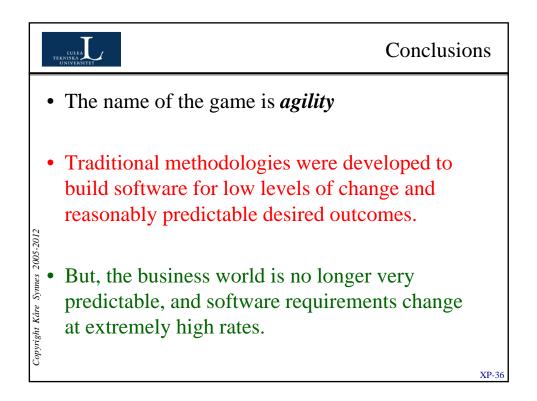


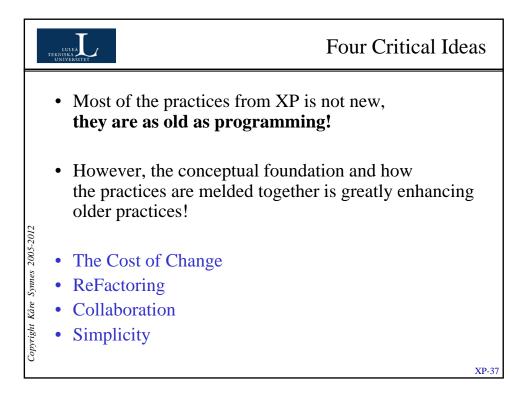


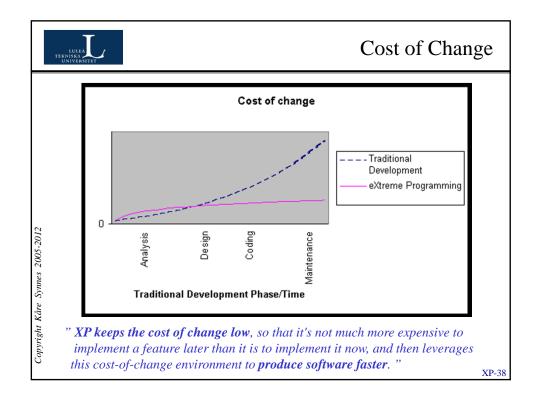


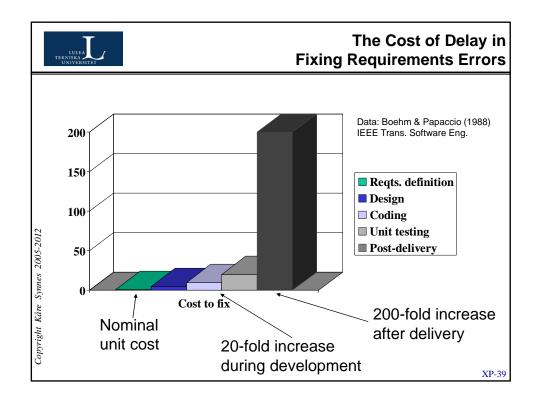












IUIEA TENISKA UNIVERSITET	eXtreme Programming Values		
• Open, honest communication	• Small initial investment		
	• Embrace Change		
• Rapid feedback at al levels	• Travel light		
• Quality Work	• Teach learning		
<ul> <li>Quality Work</li> <li>Assume Simplicity</li> <li>Incremental Change</li> </ul>	• Courage - play to win		
• Incremental Change	• Local adaptation		

