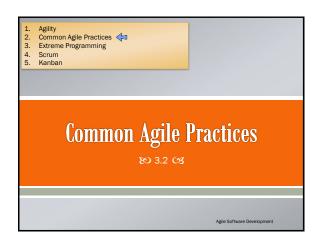
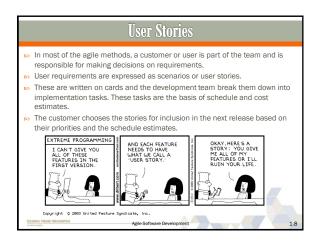


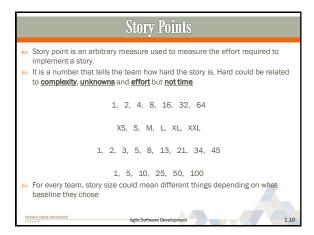
Agile Manifesto
"We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:
Individuals and interactions over processes and tools Working software over comprehensive documentation Customer collaboration over contract negotiation Responding to change over following a plan
That is, while there is value in the items on the right, we value the items on the left more."
Kent Beck et al. www.agilemanifesto.org
MYANDE TRANS CHURRITINS Agile Software Development 5

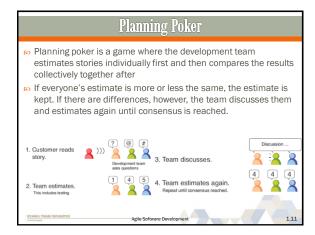
Principles of Agile Methods		
Principle	Description	
Customer involvement	Customers should be closely involved throughout the development process. Their role is provide and prioritize new system requirements and to evaluate the iterations of the system.	
Incremental delivery	The software is developed in increments with the customer specifying the requirements to be included in each increment.	
People not process	The skills of the development team should be recognized and exploited. Team members should be left to develop their own ways of working without prescriptive processes.	
Embrace change	Expect the system requirements to change and so design the system to accommodate these changes.	
Maintain simplicity	Focus on simplicity in both the software being developed and in the development process. Wherever possible, actively work to eliminate complexity from the system.	
ISTANBUL TEKNIK ÜNIVERSETESE Justent-Dagley	Agile Software Development 1.6	





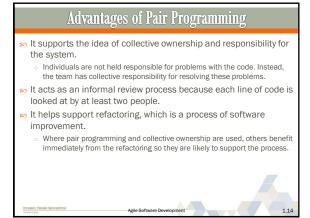




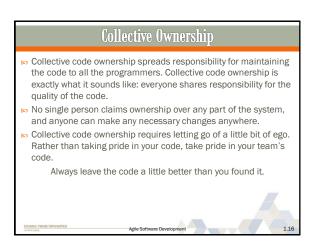


Refactoring Refactoring is the process of changing the design of your code without changing its behavior—what it does stays the same, but how it does it changes. You can think of it like improving a function-method-class without changing its interface. However, some changes requires architecture refactoring and this is much more expensive. Examples of refactoring: Re-organization of a class hierarchy to remove duplicate code. Tidying up and renaming attributes and methods to make them easier to understand. The replacement of inline code with calls to methods that have been included in a program library.





Test Driven Development 50 Test-driven development (TDD) is a software development technique that uses really short development cycles to incrementally design your software. Red: Before you write any new code for the system, you first write a failing unit test, showing the intent of what you would like the new code to do. Here you are thinking critically about the design. Green: Then you do whatever it takes to make the test pass. If you see the full implementation, add the new code. If you don't, do just enough to get the test to pass. Refactor: Then you go back and clean up any code while trying to get the test to pass.



Collective Ownership How can you take ownership of code that you don't understand? take advantage of pair programming Rely on the unit tests for further documentation and as your safety net As you work, look for opportunities to refactor the code. Collective code ownership shares knowledge and improves skills, but it won't make everyone an expert at everything. Take advantage of all skills and specialties. Rather than turning your junior programmers loose on the code, make sure they pair with experienced members of the team. Collective ownership increases the possibility of merge conflicts, and so it also requires continuous integration. Continuous integration decreases the chances of merge conflicts.

Continous Integration The ultimate goal of continuous integration is to be able to deploy all but the last few hours of work at any time. Most software development efforts have a hidden delay between when the team says "we're done" and when the software is actually ready to ship. The point is to be technologically ready to release even if you're not functionally ready to release. Integrate your code every few hours. Keep your build, tests, and other release infrastructure up-to-date. To guarantee an always-working build make sure what works on your computer will work on anybody's computer. nobody gets code that hasn't been proven to build successfully.

