Software Modelling

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with slides from Anya Tafliovich

Why building models?

- To better understand the problem
- To uncover potential problems
- To make decisions about the product design
- Have a common agreement and understanding about the product to build

UML - Unified Modelling Language

General purpose modelling language that defines a set of diagram notations

→ Created with OO-programming in mind

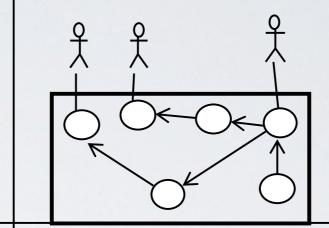
UML diagrams



information structure relationships between data items modular structure for the system

Use Cases

user's view
lists functions
visual overview of the
main requirements

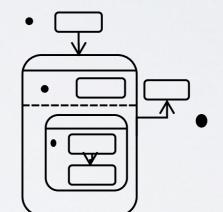


UML Package Diagrams

overall architecture dependencies between components



responses to events
dynamic behavior
event ordering,
reachability, deadlock



UML Sequence Diagrams

individual scenario
interactions between
users and system
sequence of messages

Activity diagrams

business processes
concurrency
synchronization
dependencies between
tasks

