

what happens...

- ... when you walk into Starbuck's?
- and why?

machines and processes

- the machine metaphor at work
 - standardization, measurement, repeatabilitystandardize outcome by standardizing process
- two key elements
 - a formal description of the process
 so it can be analyzed, transformed, shared, exchanged
 - embodiment in software tools
 - tools are constrained to follow process

 e.g. just as a wizard guides you through a step-by-step sequence of actions and prevents deviations



































a major problem

- the basis for all this is finite-state technology
 but the world is not finite
- exception management
 - trade-off again -- modeling or execution?
 - exceptions aren't exceptional
 - exceptions are often *good*

a case study

- workflow in factory production printing
 - the work from the systems' perspective
 - the work from the users' perspective
 - creative exception management
 - jumping the gun
 - balancing the load over machines
 - doing each others' jobs
 - blocking out time
 - where does the "smooth flow of work" come from?

an alternative for workflow

• workflow as an integration technology

- focus less on automating internal processes
- instead, on coordinating interactions
 - amongst organizations, clients, customers, suppliers
- alternative view of process languages

• a lingua franca between different technologies







however...

- degree of specification
 - balancing control with autonomy
 - different process languages vary
 put the smarts in the language
 - put the smarts in the environment that executes it
- integration with existing practice
 - analysis of practice often focuses on what rather than why
 - we'll see this on Tuesday...

next time

- more on the machine metaphor
- machine management of data
 - database systems
 - ER modeling
 - normalization