# Waltzing with Branches

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#### Cargo Cult Software Engineering

"They go through the motions of looking like effective organizations that are stylistically similar. But without any real understanding of why the practices work [...]"

-- Steve McConnell

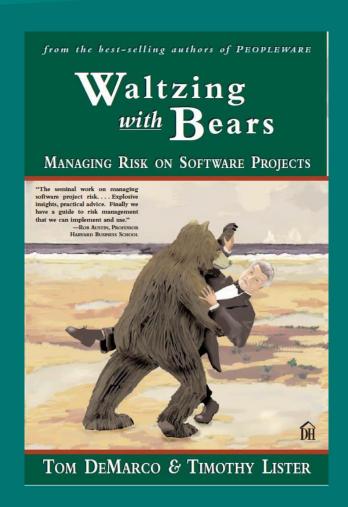
#### Another cult is born...



#### Read the small print!

All builds from source
 >100 million test cases executed per day

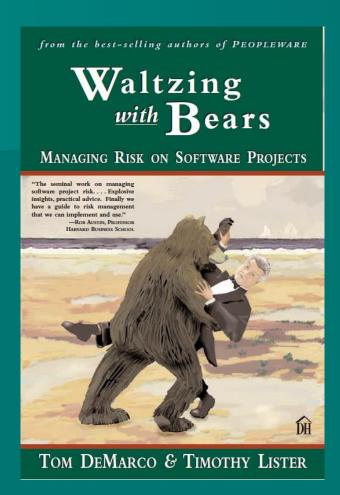
#### Waltzing with Bears



<<<<<<<

Knox in box.
Fox in socks.
Knox on fox
in socks in box.

=========



"RISK MANAGEMENT IS PROJECT MANAGEMENT FOR ADULTS"

"The business of believing only what you have the right to believe is called *risk management*."

-- Waltzing with Bears

"Risk management is the process of thinking out corrective actions before a problem occurs, while it's still an abstraction."

-- Waltzing with Bears

#### Risk: Loss of Productivity



#### Risk: Loss of Confidence



#### Risk Management Strategies

- Avoid it
- Contain it
- Mitigate it
- Evade it

#### Branching



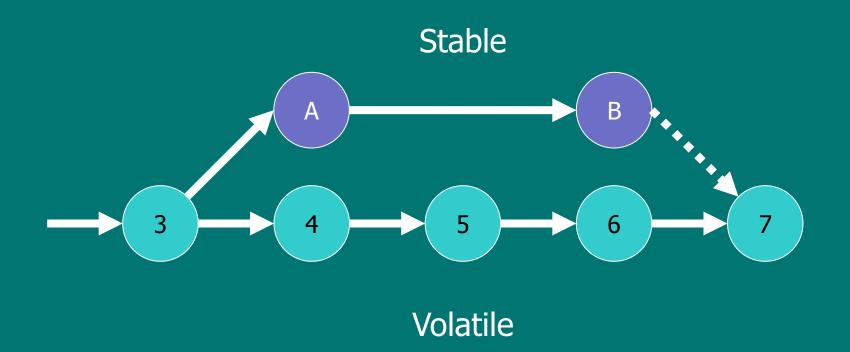
#### Merging



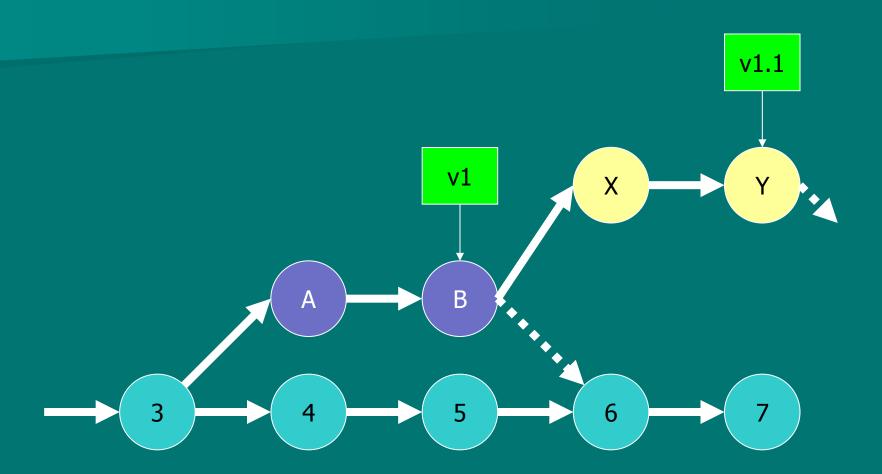
#### Integration/Development Branch



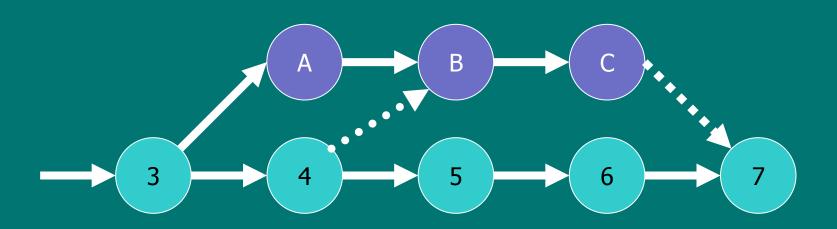
#### Release Branch



## Branching From a Label

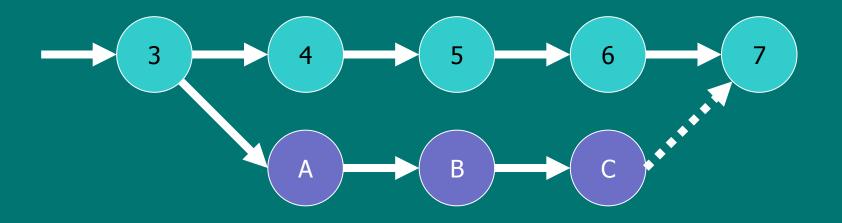


### Cherry Picking



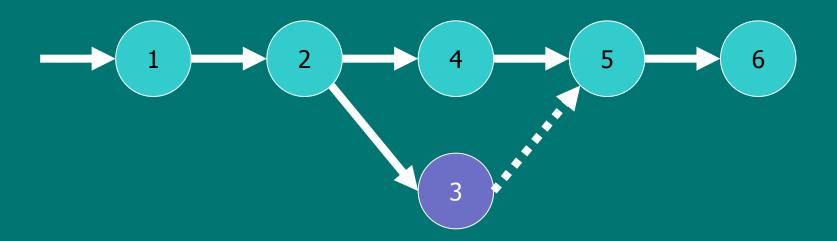
#### Feature/Task/Private Branch

#### More Stable

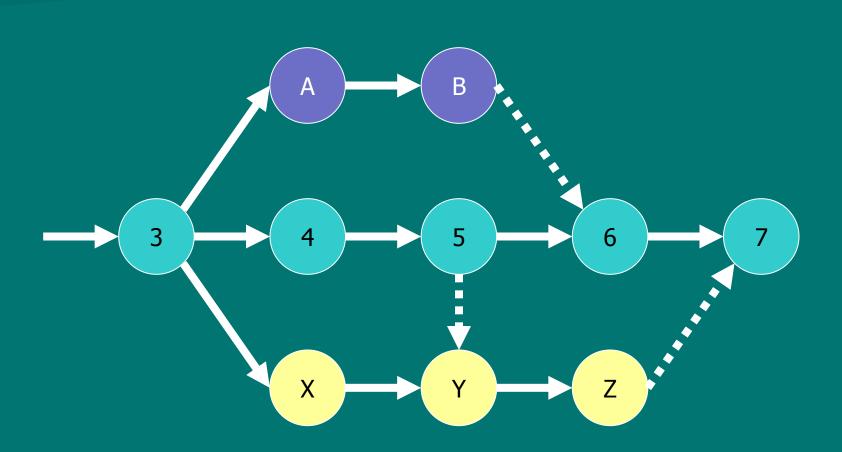


More Volatile

## Shelving



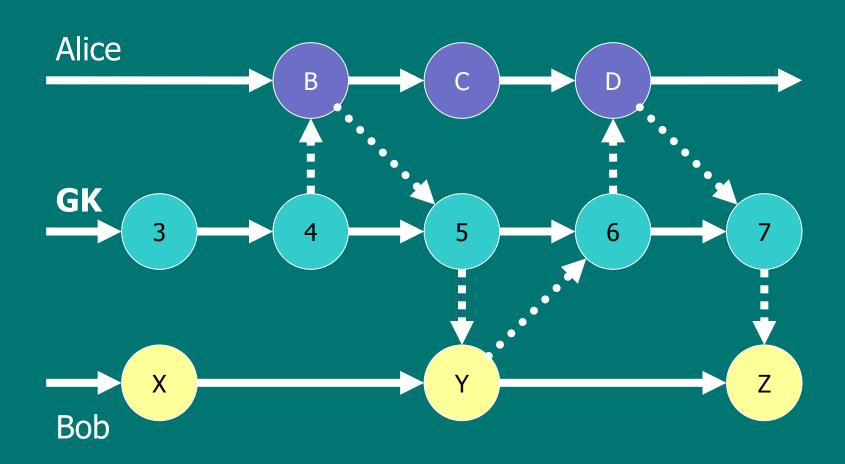
#### **Integration Pains**



#### No Branch



#### Gatekeeper Workflows



#### Forking



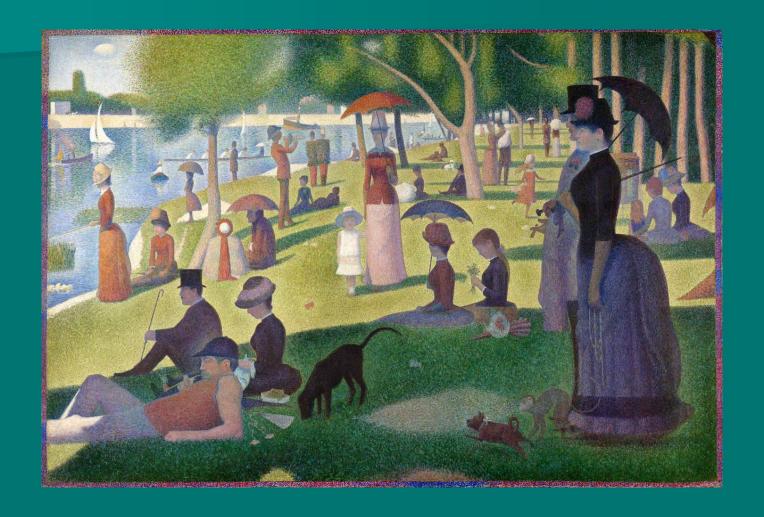
# Branching is a technique for managing risk, but...

# Branching is *not the only* technique for managing risk.

#### Approach

Always Be Ready To Ship

## Small Units of Change

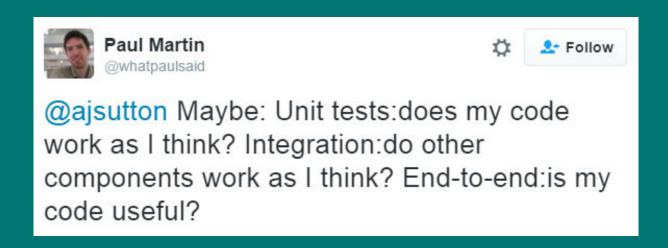


#### Automation



# Continuous Integration is a mindset, not a tool.

#### **Tests**



#### Refactoring



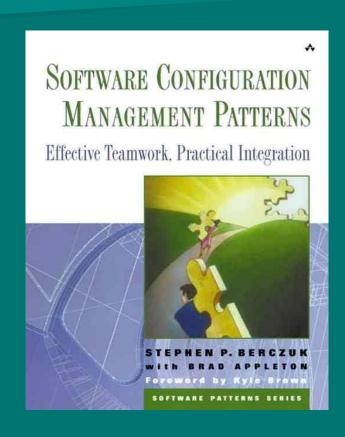
#### Pair/Mob Programming

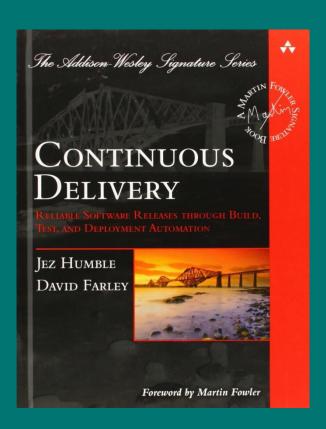


#### Monitoring



#### Literature (Old & New)





# Branching *can* be used to manage *some* risks, but there are more productive ways.

#### Questions?

#### Blog:

http://chrisoldwood.blogspot.com

**Articles:** 

http://www.chrisoldwood.com/articles.htm

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