

Extreme Programming

*Frank Bergmann, fraber@fraber.de
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Problems with IT Projects

Some Statistics

- Only 20% in time and budget
- 40% never become operative
- Deviations up to 200% normal

=> Disastrous situation

Why???

- Management lacks comprehension
 - Greedy providers
 - „Feature Creep“
- Complexity of IT
 - Heterogenous systems problem
 - Fashionable Software Architectures
- Tech Mentality
 - Communication problems between biz and tech guys
 - Fluctuations in project team
 - Tech wizards are difficult to deal with
- Poor Project Management

Measures (1)

- „1001 Methodologies“
 - Extreme Programming,
 - UML, Rational Unified Process,
 - Capability Maturity Model,
 - Microsoft Solutions Framework,
 - ISO 9001/9002
 - Estimation and Productivity Models
 - Function Point Analysis, ...
- => Don't get hooked to a single „religion“.**
- => Get an expert in software engineering or outsource critical projects**

Measures (2)

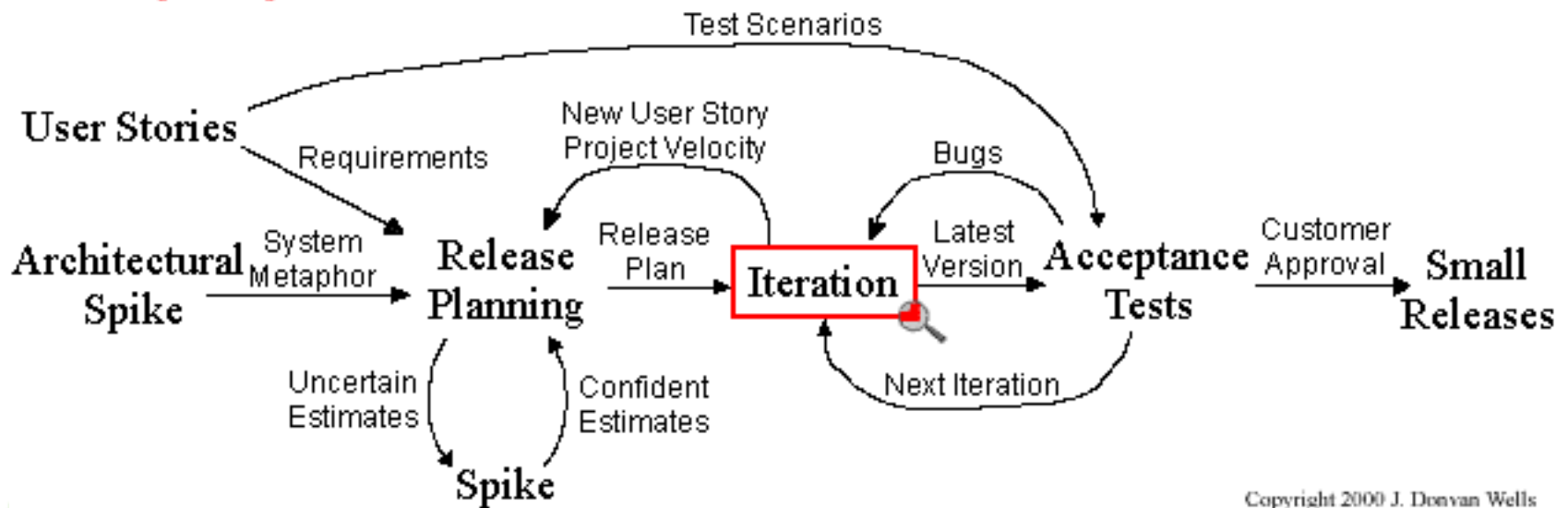
- Iterations and frequent releases
- Analysis – Development – Deployment flow
- User-centered system description (Use-Cases, User stories, ...)
- CRC Cards
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=> Software development is a process just like industrial production. Make sure you adapt the process to your environment.

Extreme Programming Flow



Extreme Programming Project



Links and References

- The Mythical Man-Month (Amazon, 25 years old!)
- <http://www.extremeprogramming.org/>
- The Cathedral and the Bazaar:
<http://www.tuxedo.org/~esr/writings/cathedral-bazaar/>
- Rational Unified Process (Amazon)

=> Check for „Software Engineering“ and read on.