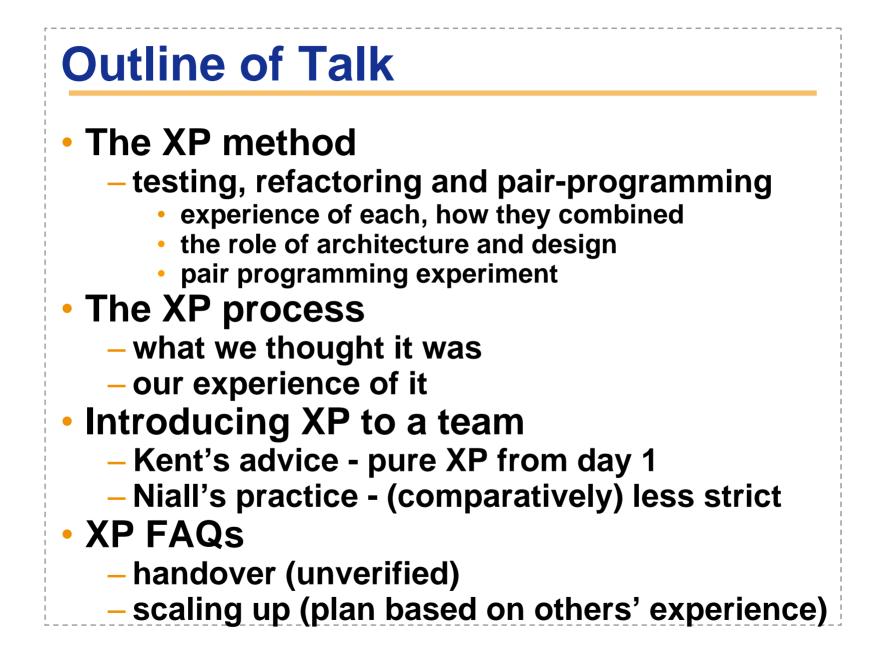
© Niall Ross, 2001 For use in XP training. v2.0, 2Q01

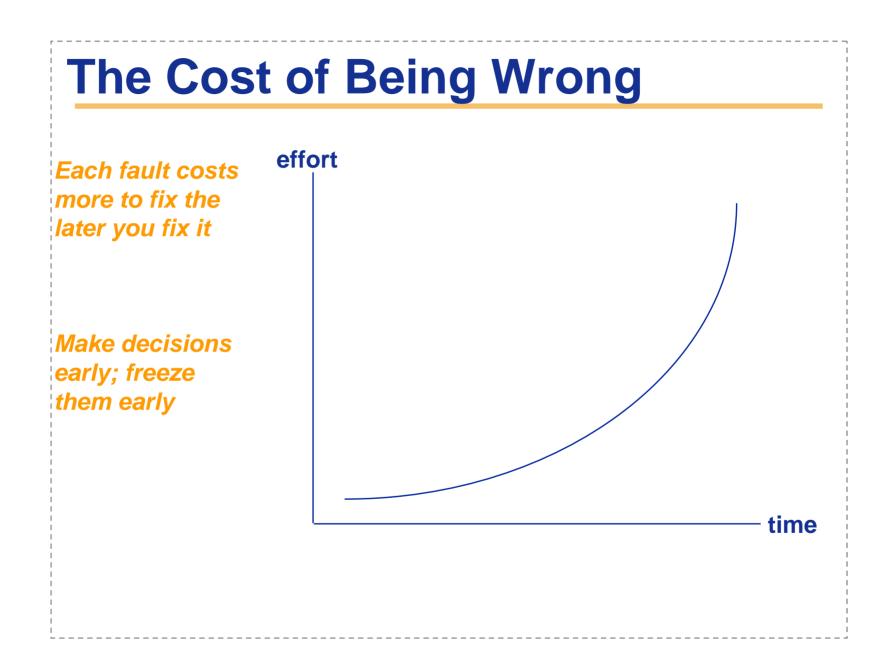


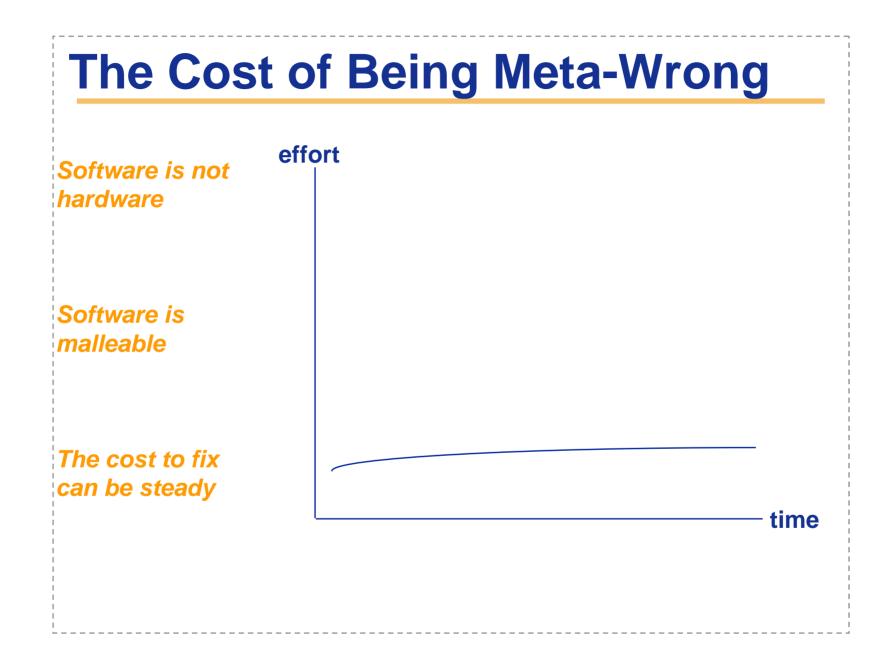
# XP-rience: eXtreme Programming Experience

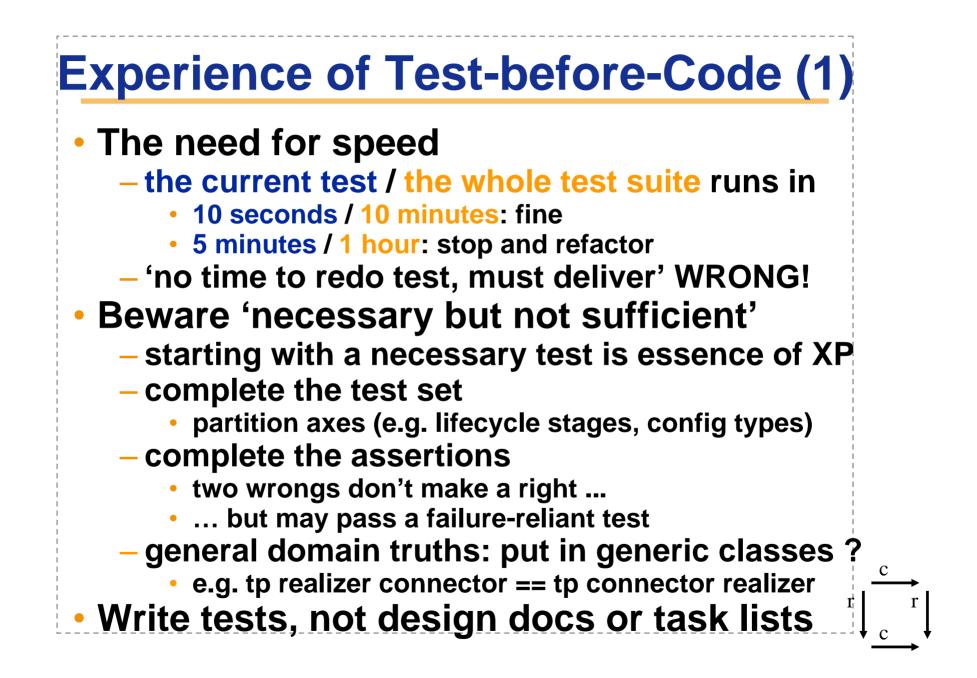
#### Niall Ross nfr@bigwig.net

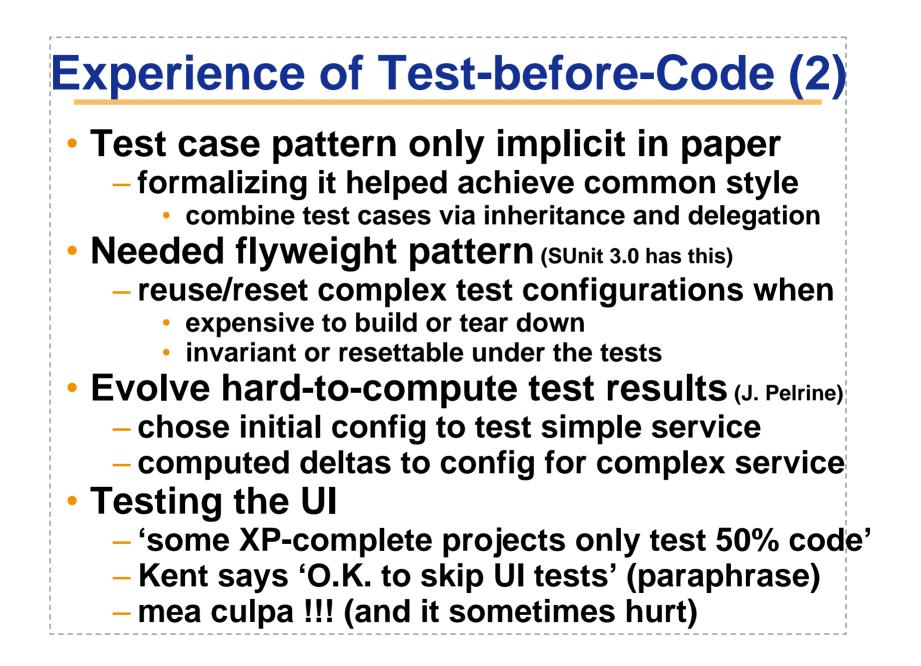
Confessions of a (not that) eXtreme Programmer leading a teleworking team building a Meta-Programming and Meta-Modelling Framework for Network & Service Management.











### **Experience of Refactoring (1)**

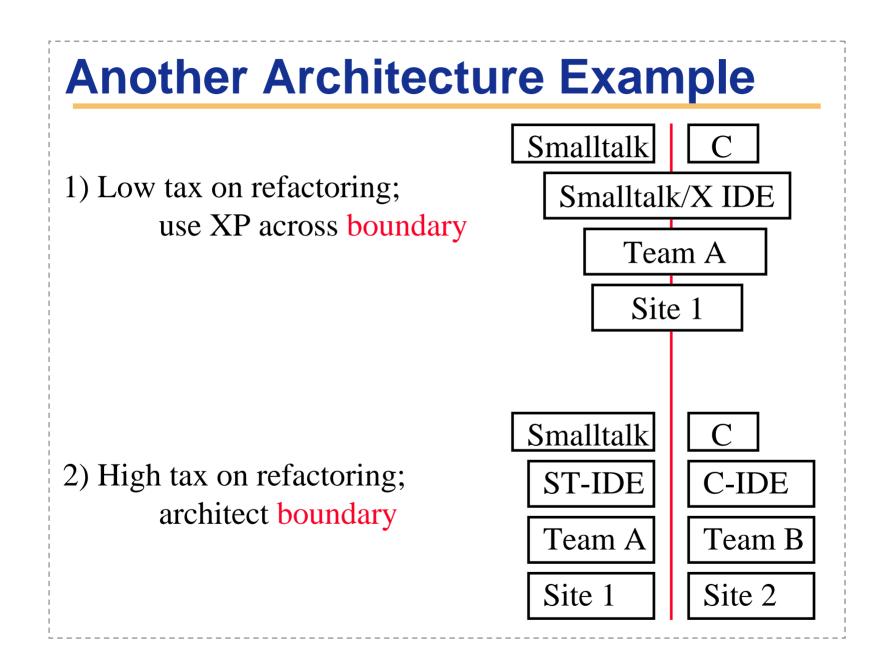
- All coding is refactoring
  - theory: never write a line without a broken test
  - practice: after a while, we almost never did

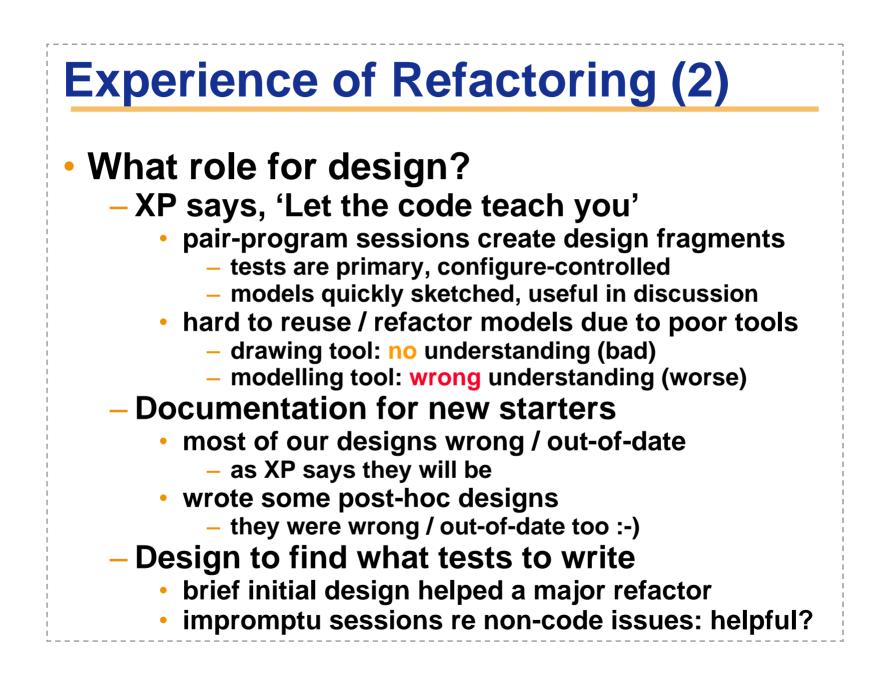
#### The need for elbow room

- deliveries inside increments kill refactoring
  - must break to remake
  - customer understood (enforced cycles on his team)
    - 'We'll push on you, you push back on us.'
  - our new manager did not (survive :-)
    - 'Mustn't annoy them, let's do it this once.'

#### What role for Architecture?

- Refactoring demands fine-granularity
  - must be able to move behaviour incrementally
- Barriers need architecture (or removal)
  - our ST-Corba-Java interface needed an architecture

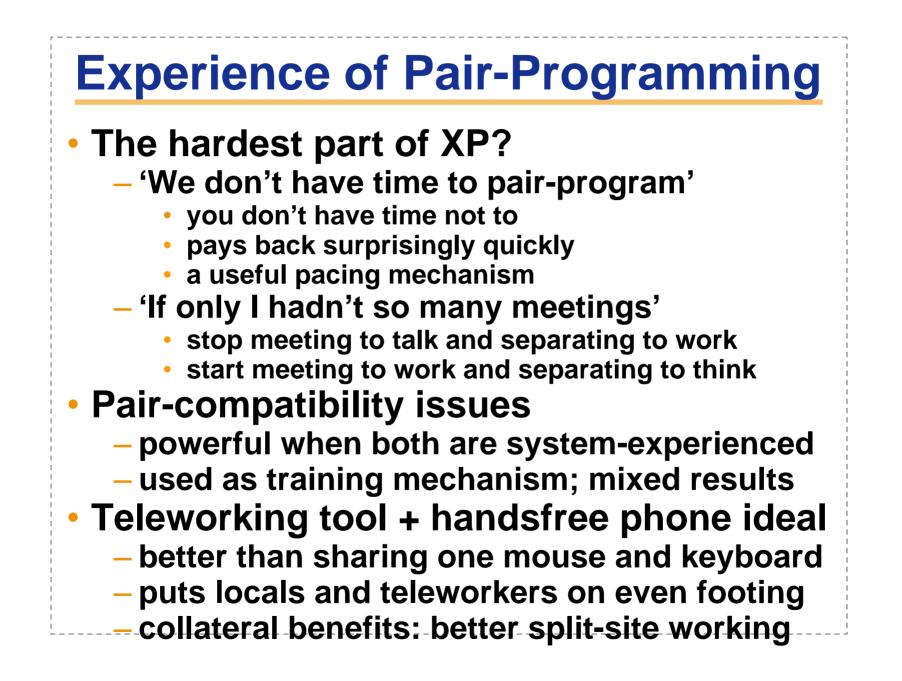




#### **Notes for prior slide**

# Architecture and Design

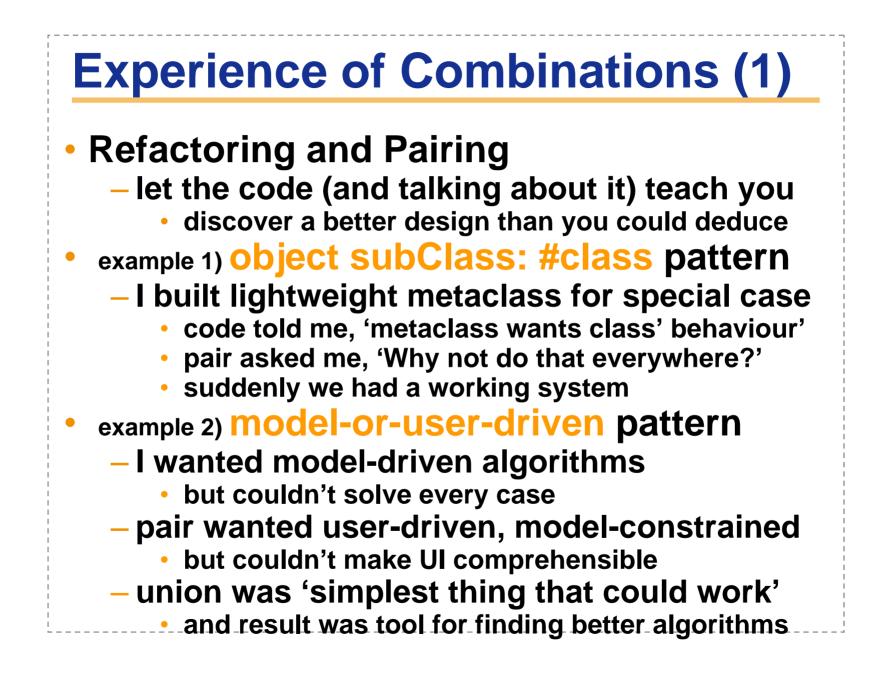
(Slide not shown, only for notes.)

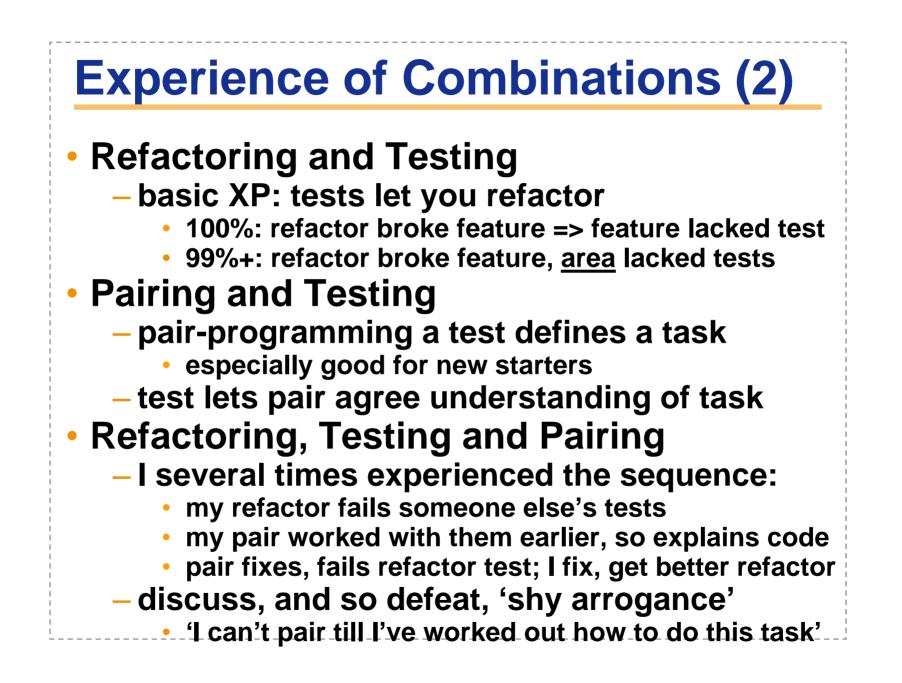


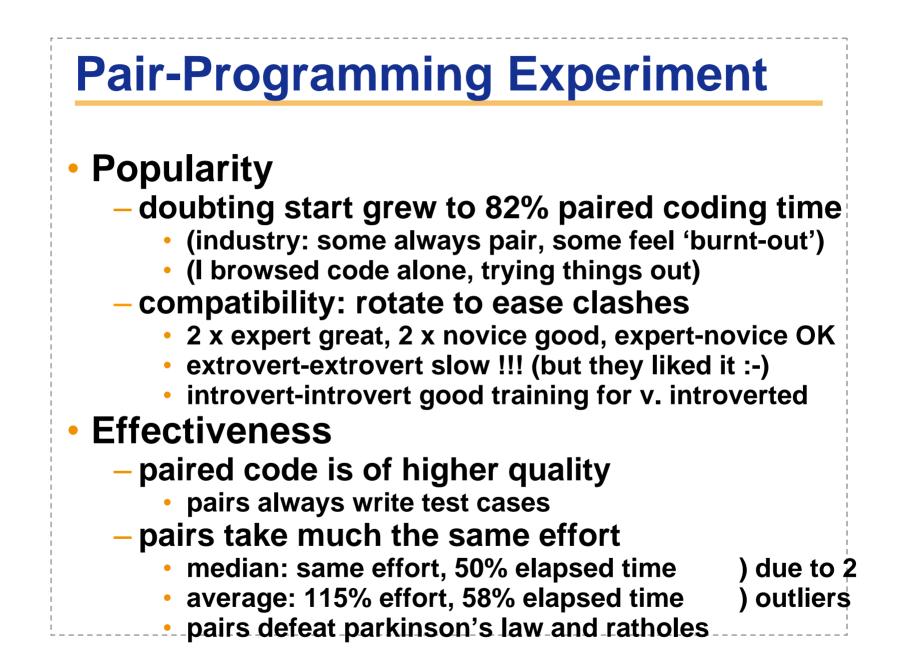
#### **Notes for prior slide**

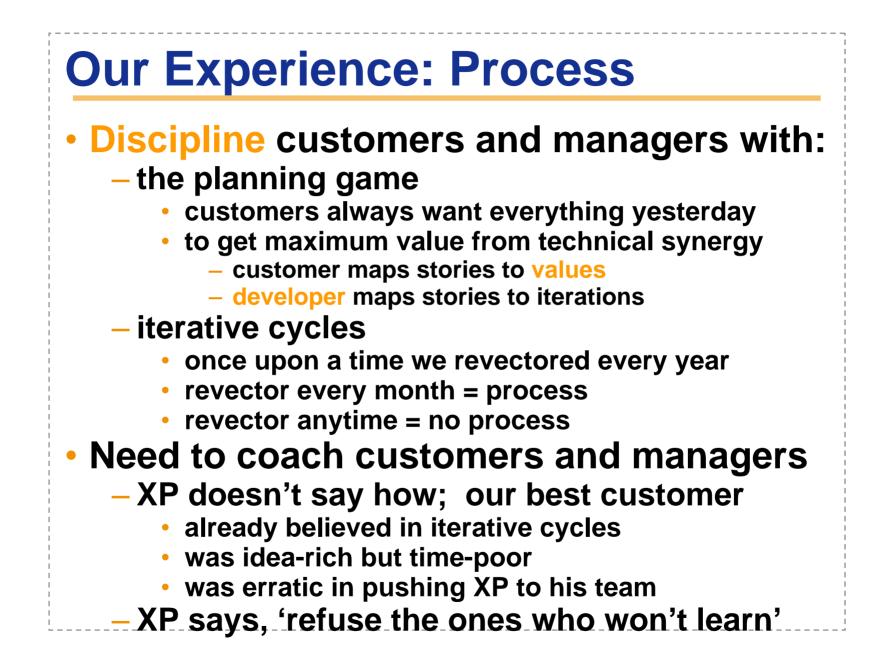
Teleworking and Pair-Programming

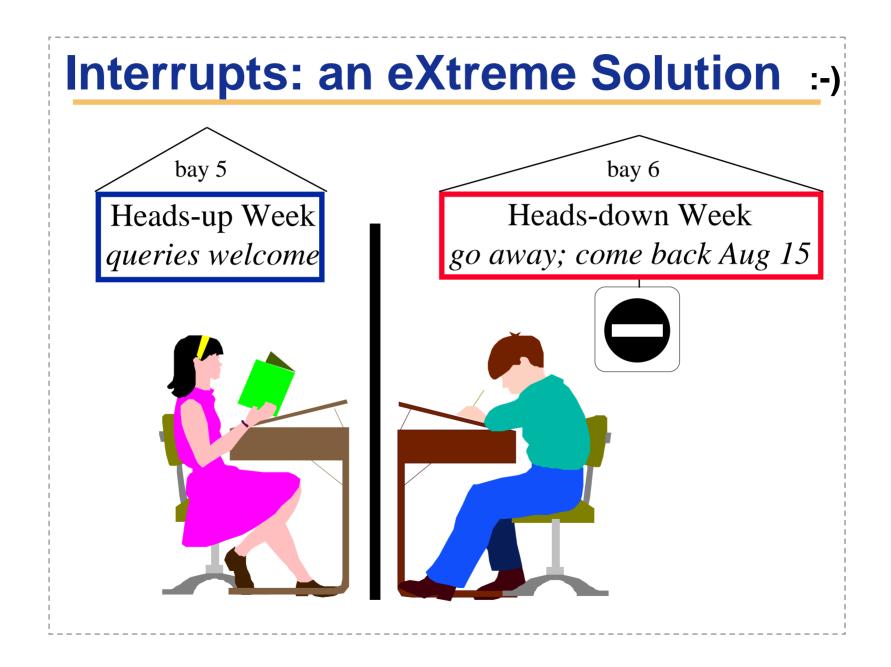
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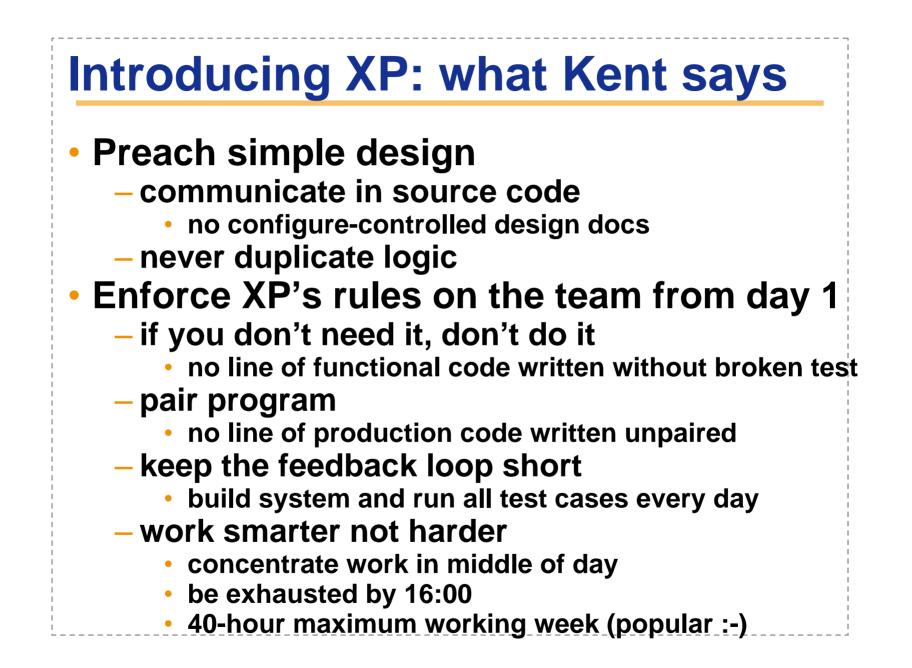


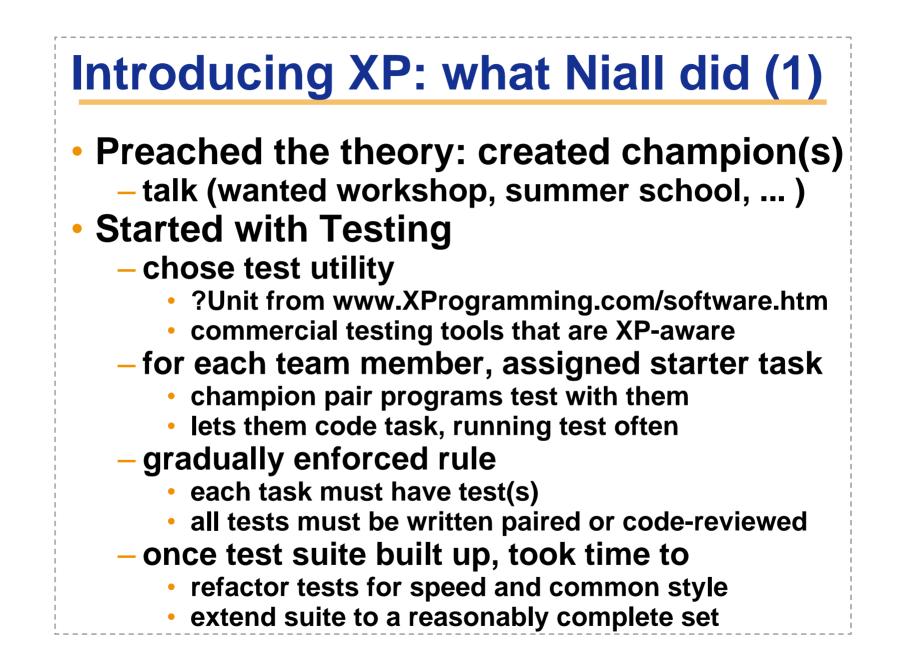


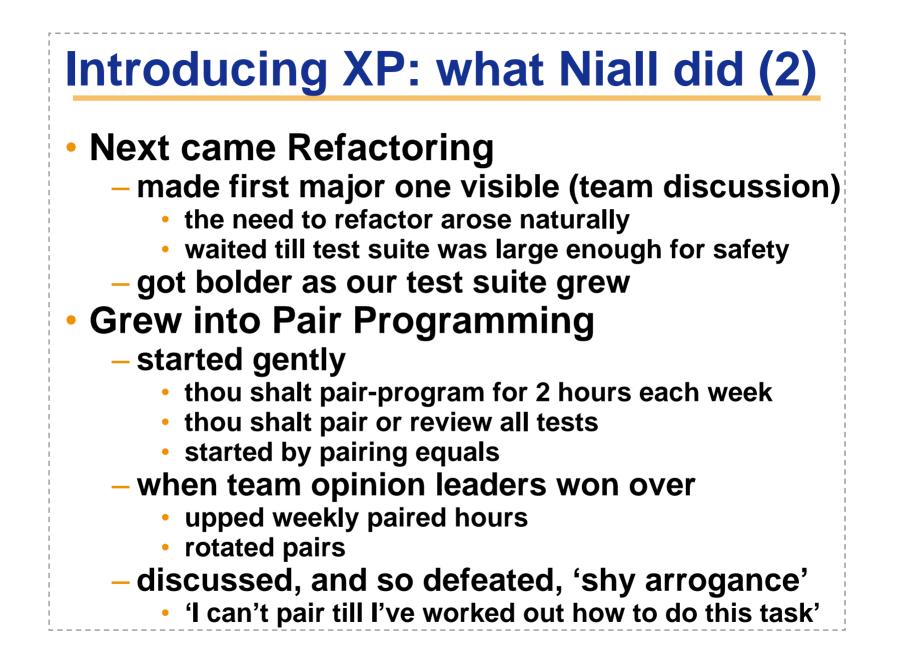


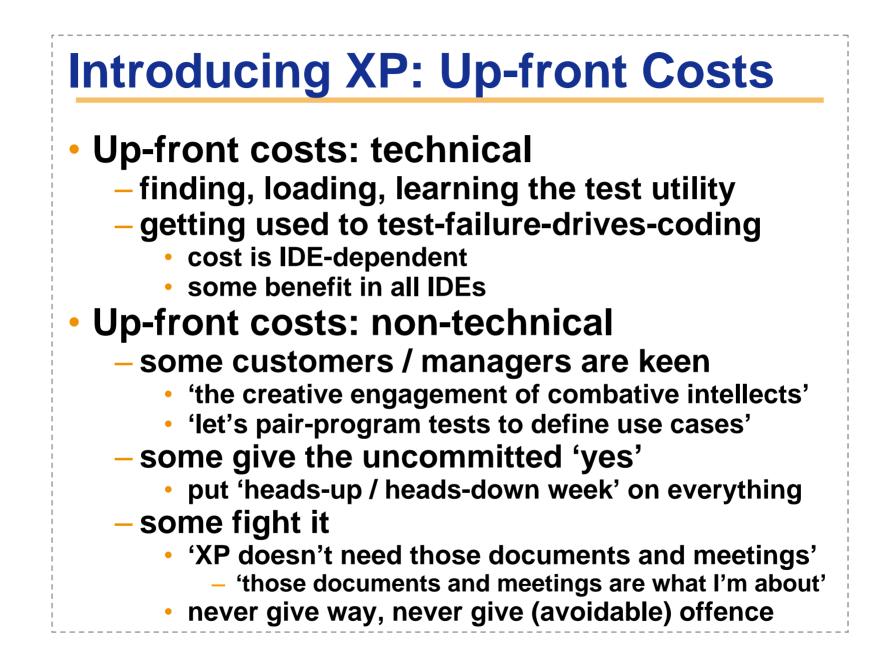


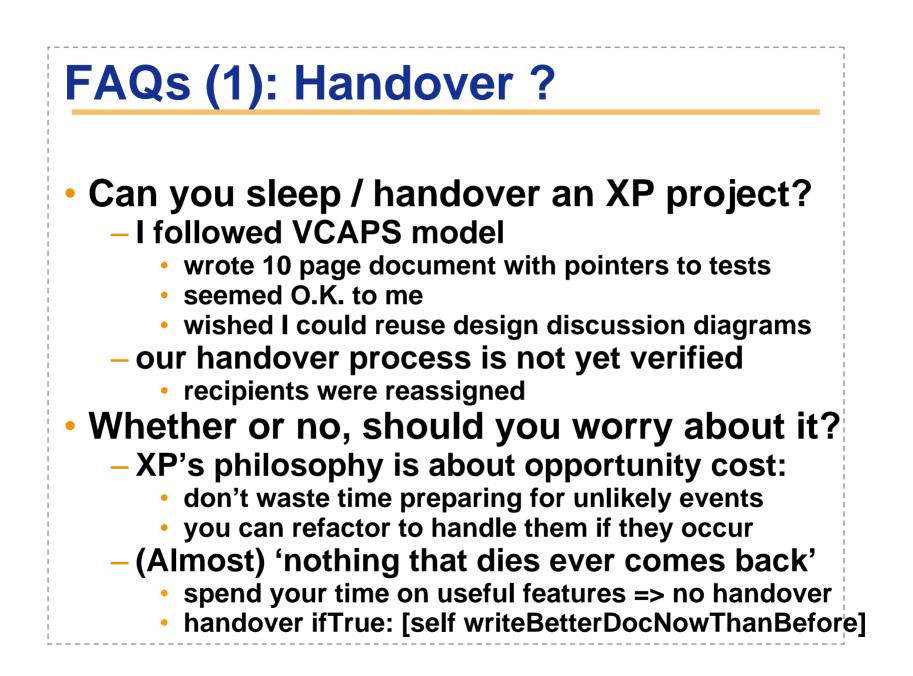


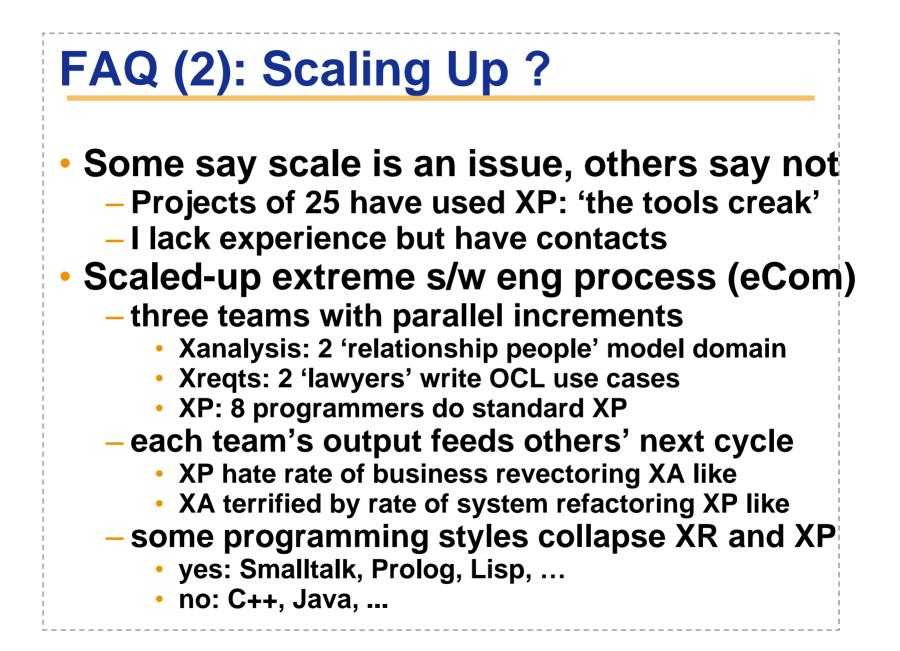












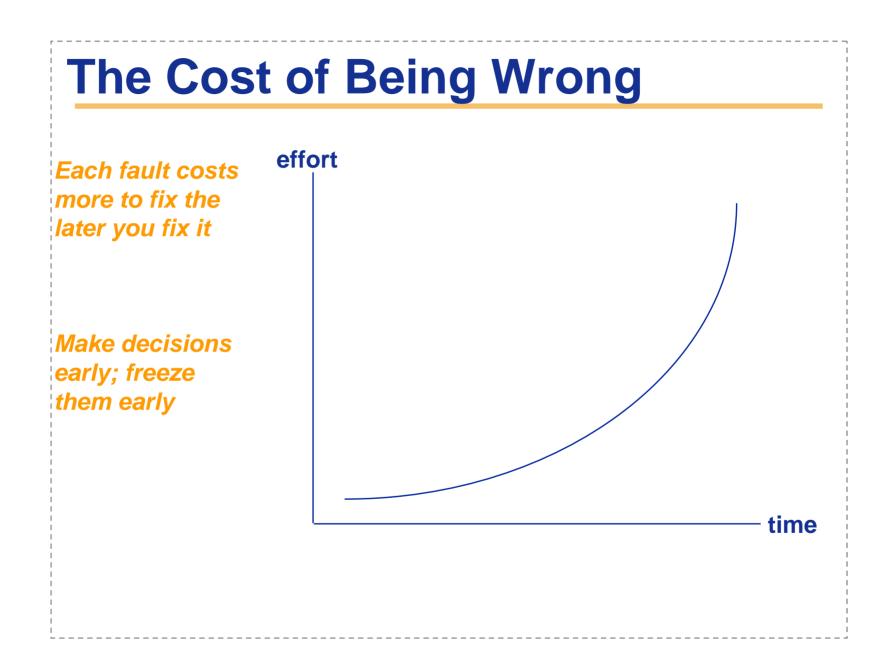
## **Extreme Programming**

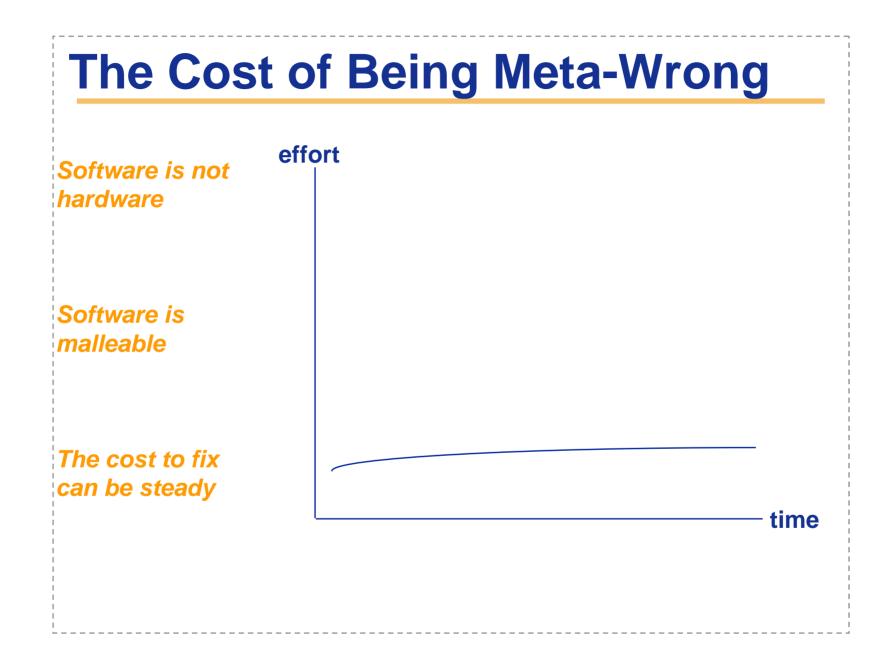
# Use it !!!

#### **Acknowledgements**

Thanks to my team (Gill Kendon, Steve Gaito, Jessica-Anne Hainey, Mike Hurd, Ian Corrie, Jonathan Durrant, Juan Barbieri, Fiona Davison, Bruno Buzzi) and to Joseph Pelrine, Steve Forgey, Laurie Williams, Stuart Kent and, of course, Kent Beck.

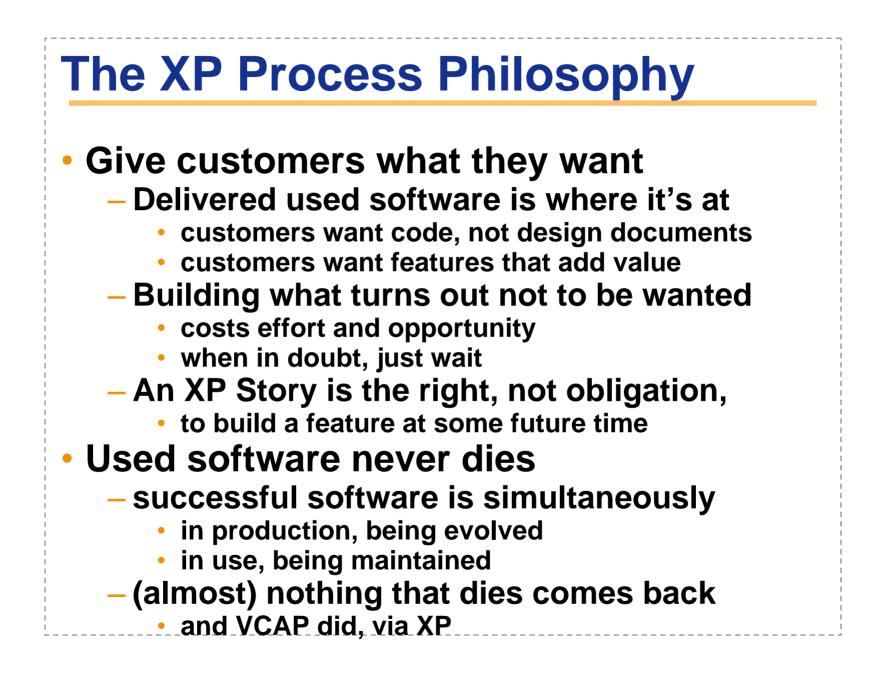
### **Backup slides**





### **The Key Ingredients**

 Write the tests, then the code test can't code what you don't know how to test - the test proves your function still works next day, week, month, year – only write tests that you know will fail, and/or that capture domain knowledge refactor mercilessly Let the code teach you Learn how to do it as you do it – Code to learn first make it run then make it right last make it fast Frequent pair sessions pair force you to learn, explain and justify program force you to share system knowledge



#### **The XP Process**

 Story: some testable features - written by customer, estimated by designers - not what designers commit to Iteration: ~ 4 weeks' worth of stories - collectively, estimate iteration and list tasks individually, sign-up for and estimate task write test case for task (re)write code till it passes test either write another test or move to another task – customer reviews result between iterations can't change story within iteration (can raise bugs) Release: a set of iterations that make business sense together