

Mutating the Enterprise to FP: Revolution or Evolution?

Sharon Holliday

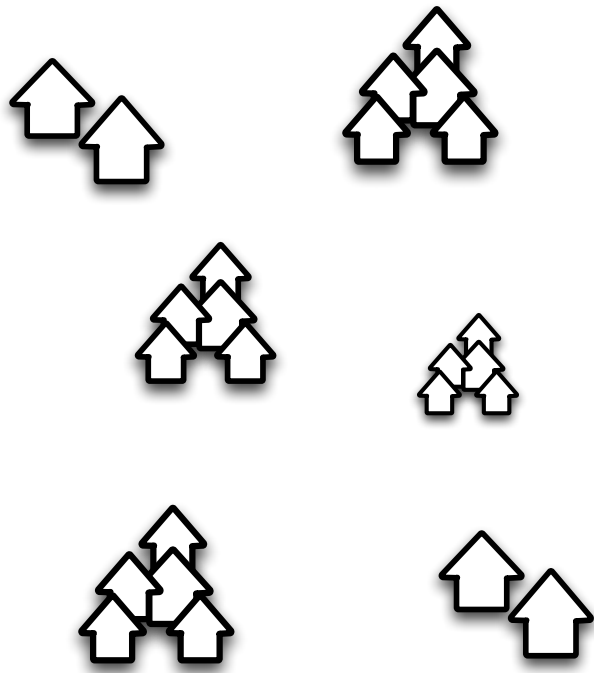


REAGroup

Today....

- REA's journey to FP
- My journey to FP at REA
- Concluding thoughts

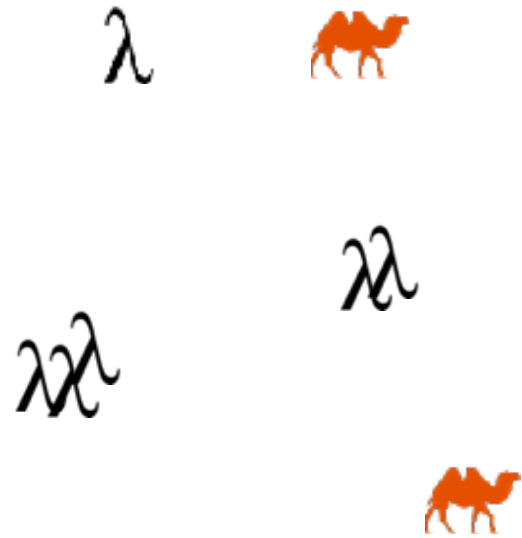
- I'm a software developer
- I write software in a business context
- I aim for both “readable” and “reasonable” code
- I strive for productivity



OO Land

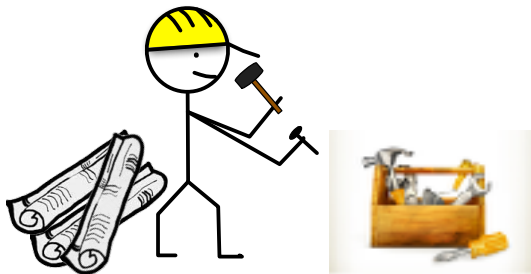
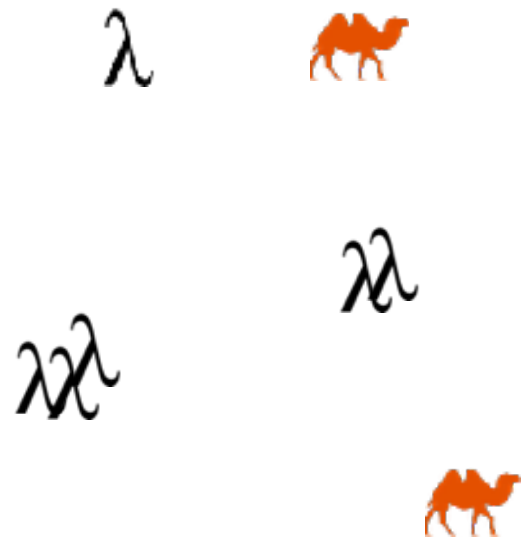
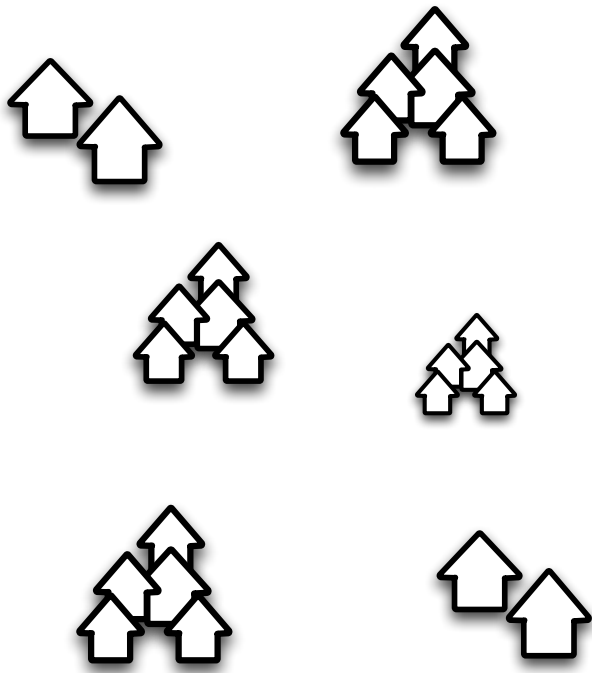


Theory Mountains

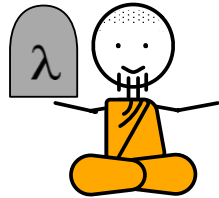


FP Land

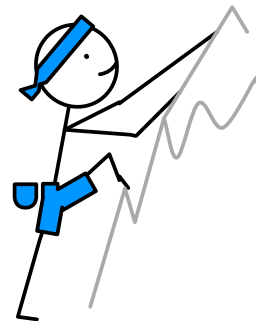
Characters in The Software Development World



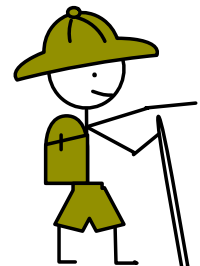
The Builder



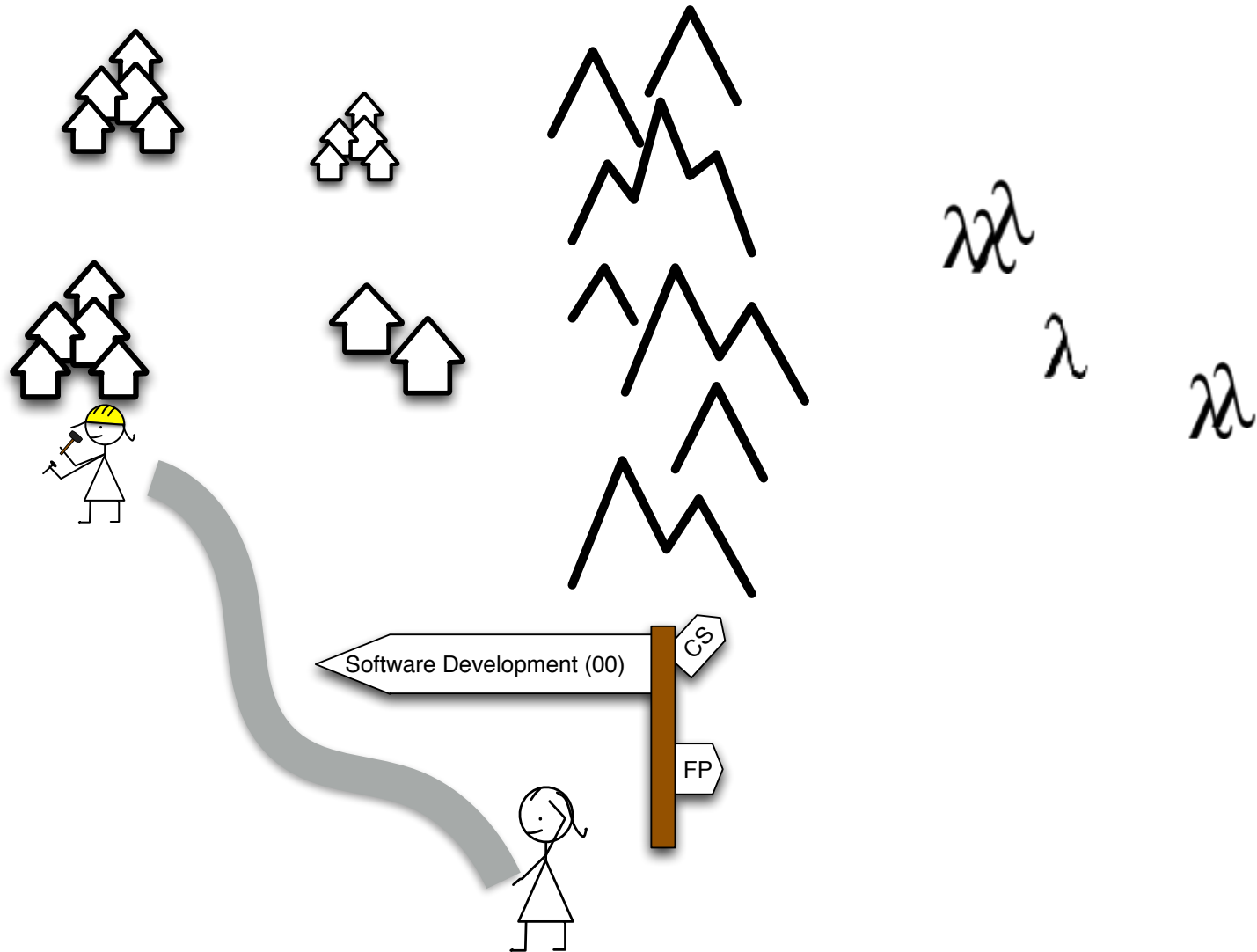
The Guru



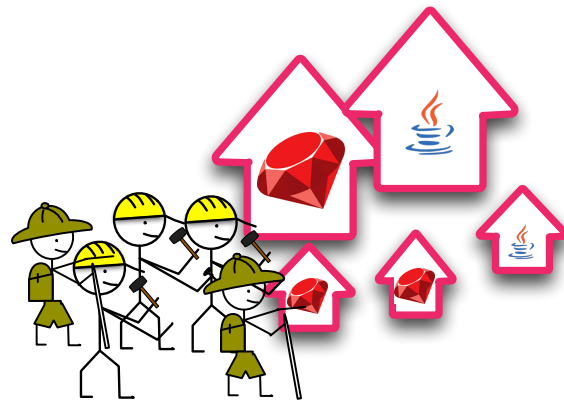
The Mountaineer



The Scout



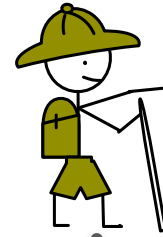
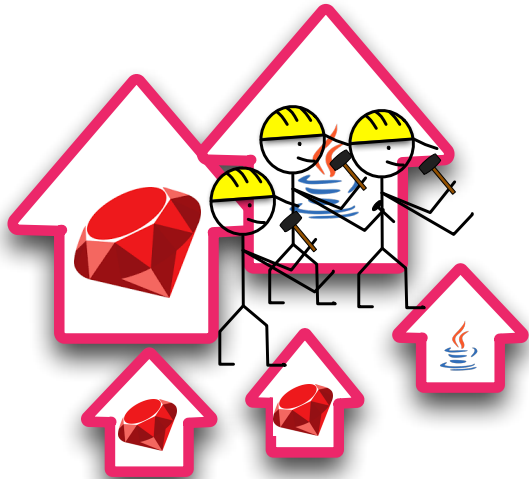
Continuous Improvement



Microservices

DevOps

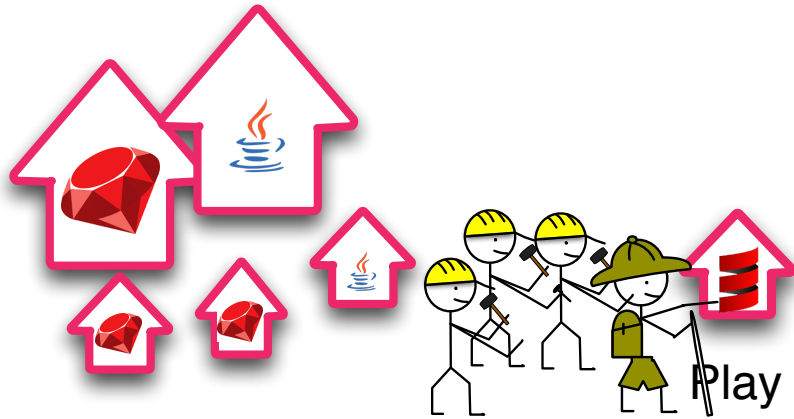
Autonomous teams
Clever Passionate developers



- *“efficient immutable collections*
- *Super terse*
- *JVM bytecode/JARs”*



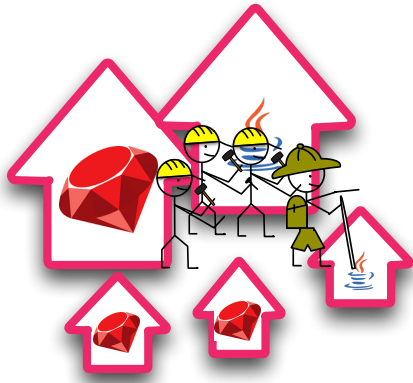
More steps ... adapt and learn



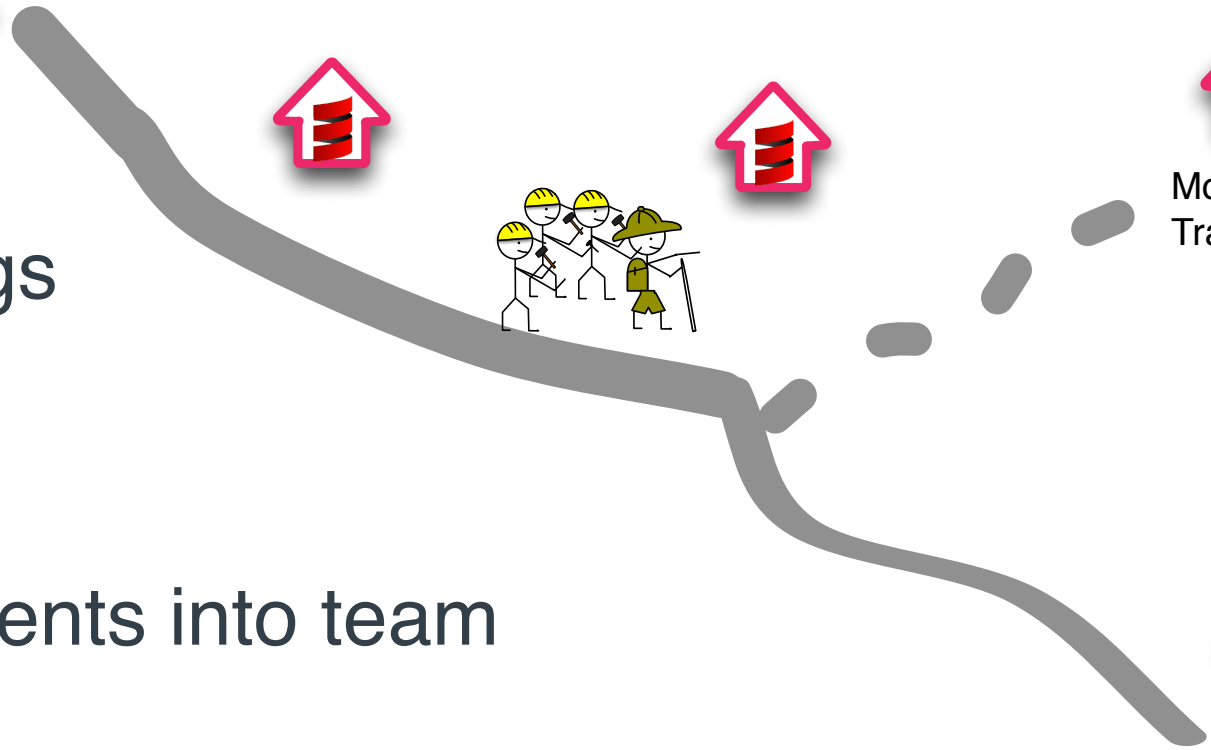
Unfinagled



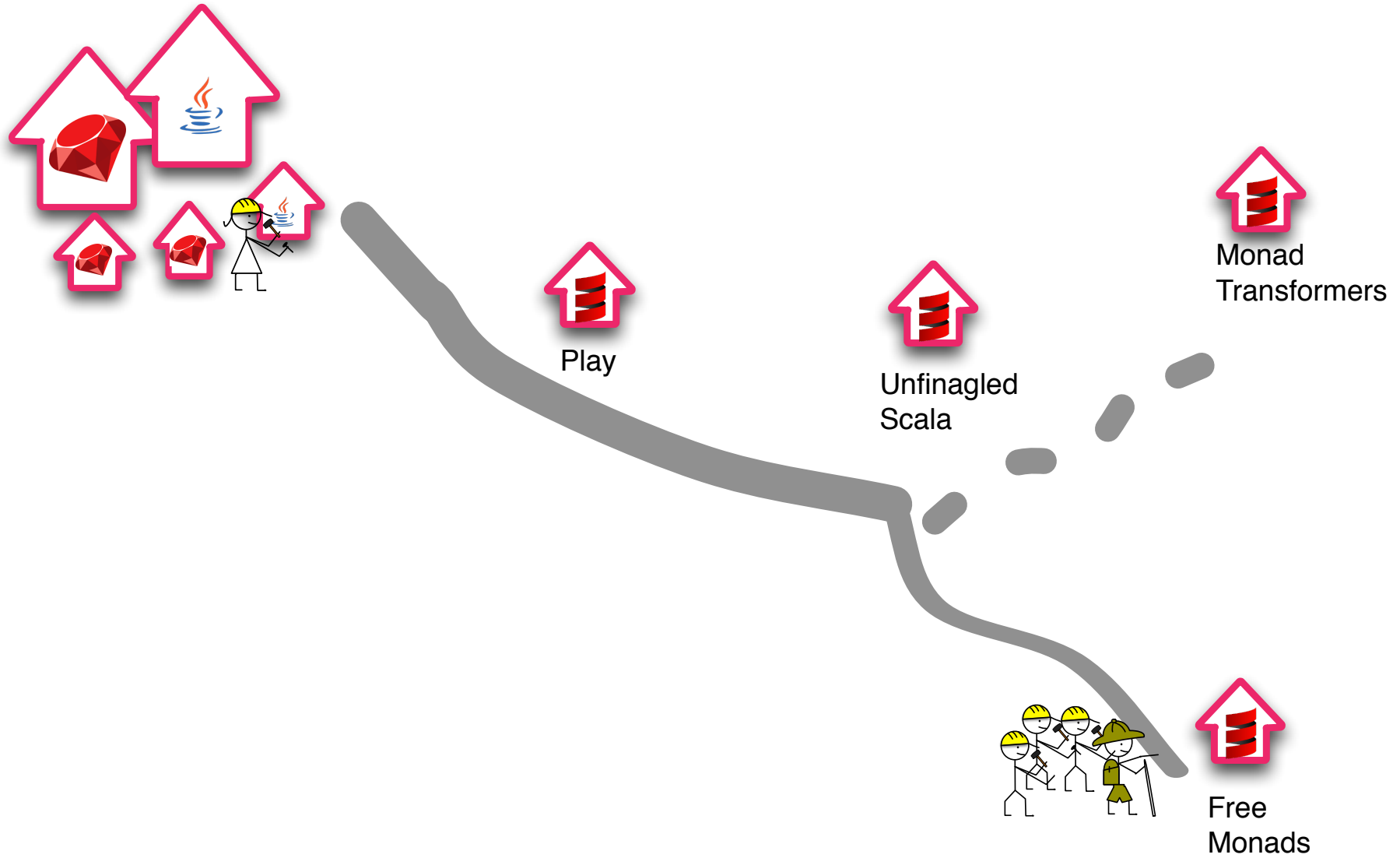
Unfiltered



- Brownbags
- Guilds
- Dojo's
- Secondments into team
- Pairing



My first steps



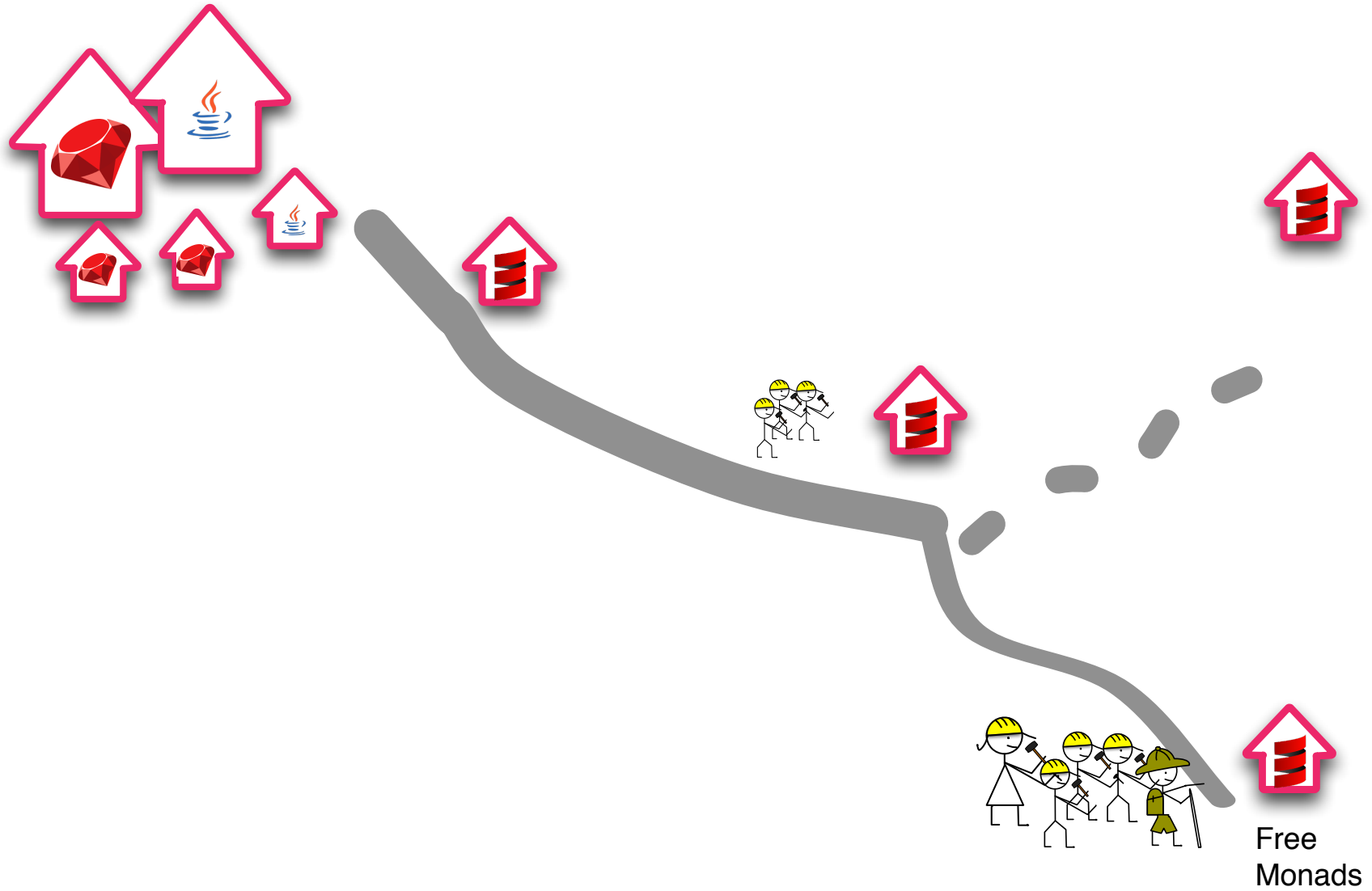


- fast tests
- no mocks
- conciseness

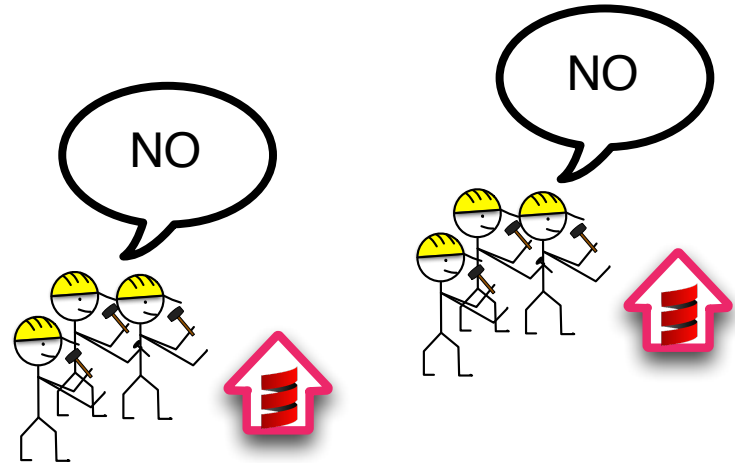
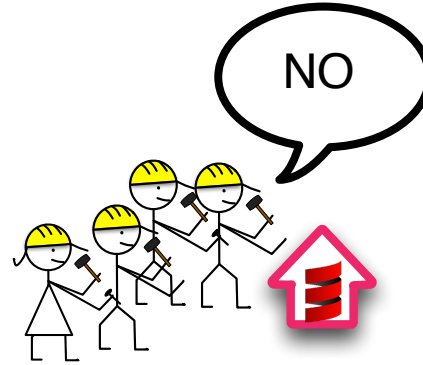
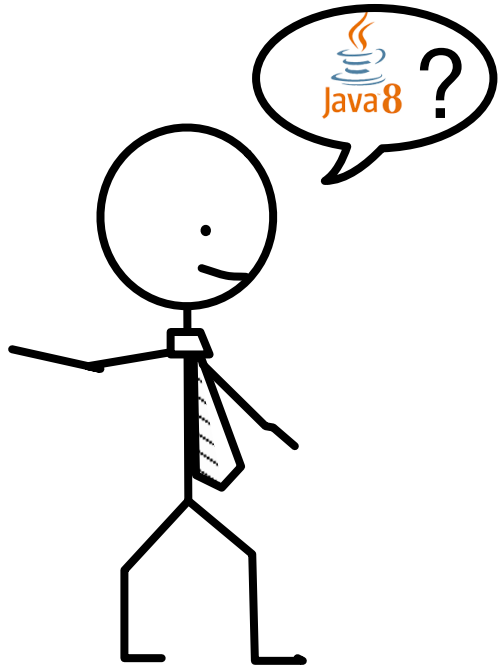


- monads
- readability
- modularity
- terseness

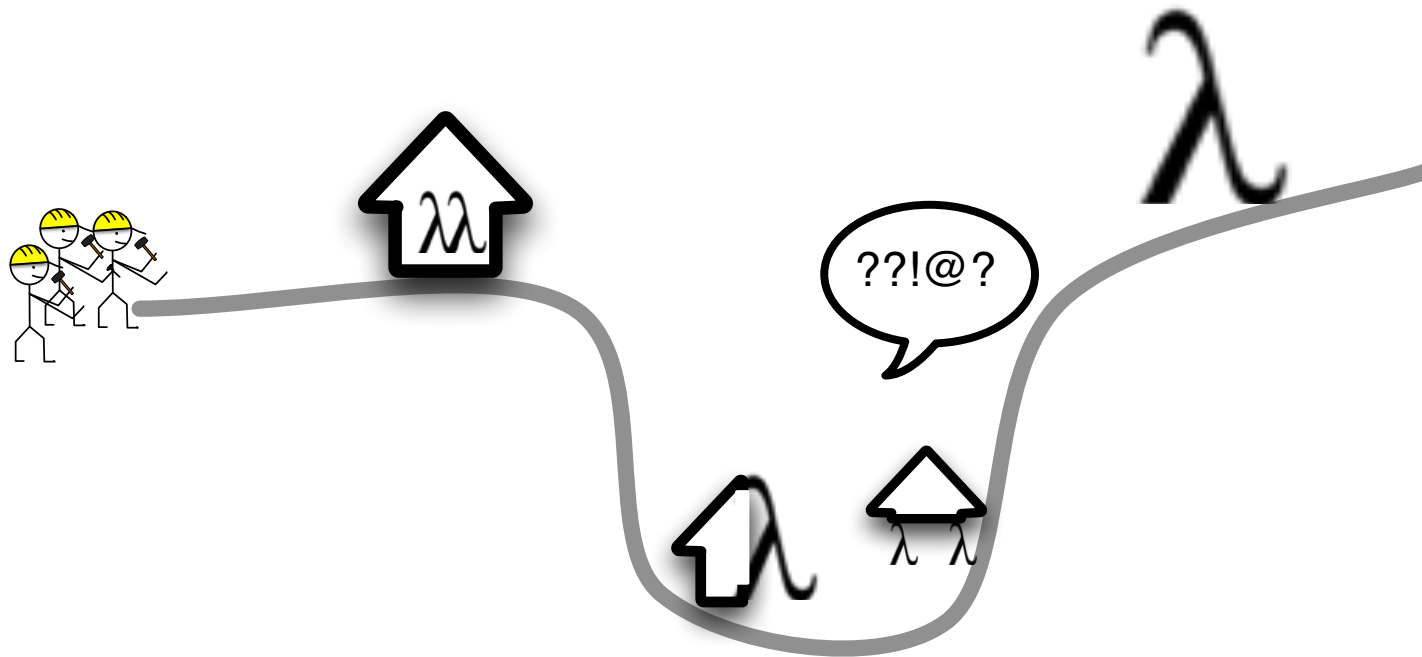
Setting out again, more slowly



About 8 months in....

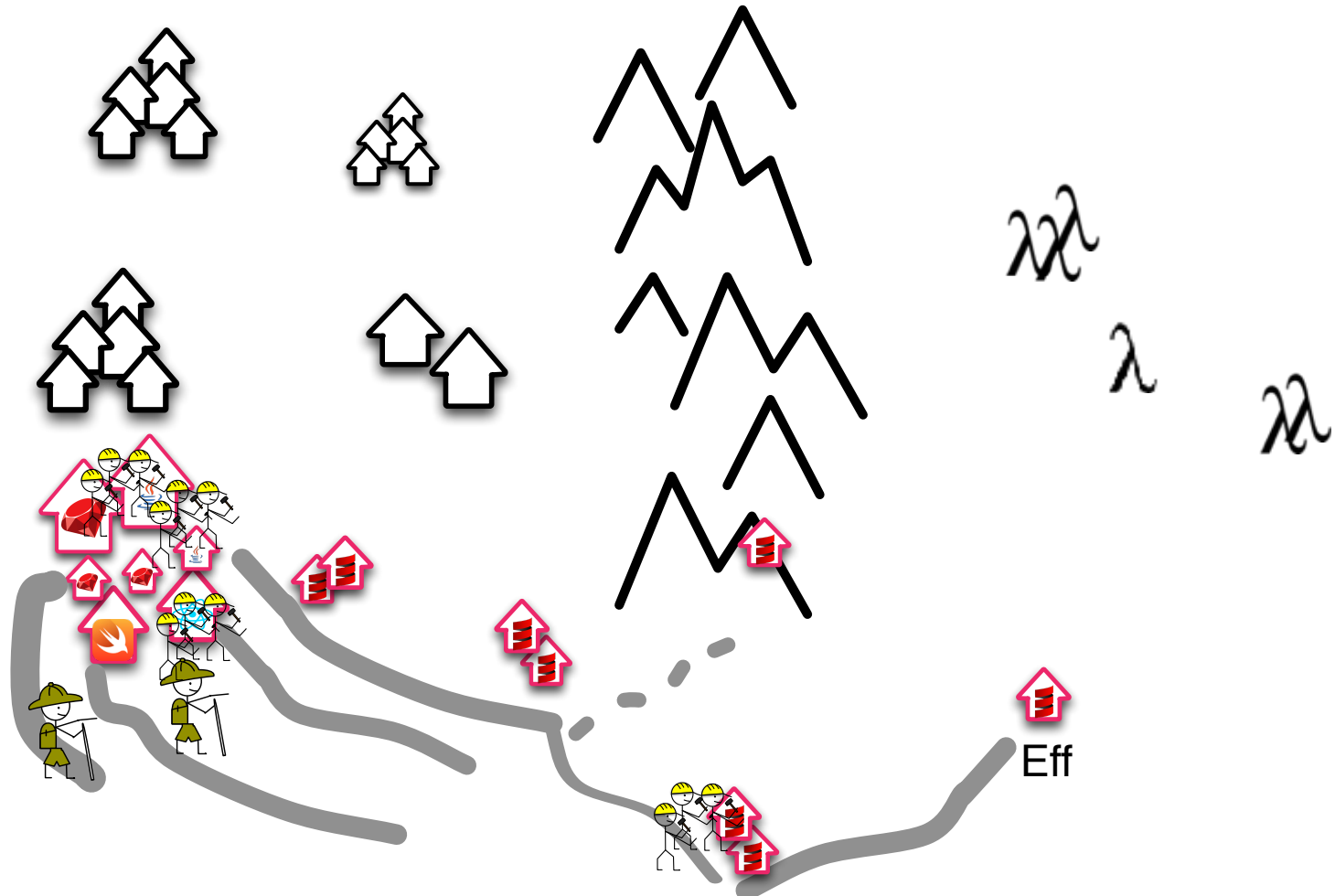


Danger point...



Uncanny valley

Meanwhile



- Continuous Improvement drove our journey
- Understand your company and pain points
- Evolution worked for us ... revolution may also work
- Understand the knowledge in your teams
- Are you on the path?



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