Software Design & ZeroMQ

Similar to, but not quite, the talk you were expecting
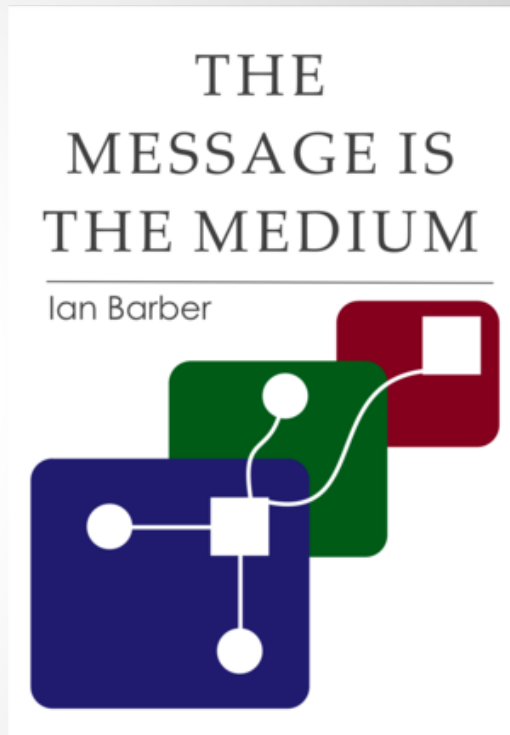
Me

google.com/+IanBarber
twitter.com/ianbarber
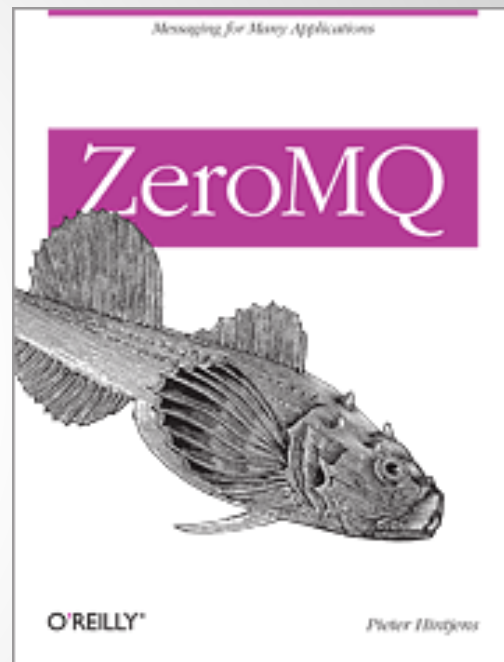github.com/ianbarber
leanpub.com/messageisthemedium

Pieter

hintjens.com/
twitter.com/hintjens
github.com/hintjens

zero.mq
github.com/zeromq/libzmq

Collective Code Construction Contract

"maximize the scale of the community around a project, by reducing the friction for new Contributors and creating a scaled participation model with strong positive feedbacks"

http://rfc.zeromq.org/spec:22

How to Design Perfect (Software) Products

"The classic errors are to focus on ideas, not problems; to focus on the wrong problems; to misjudge the value of solving problems; not using ones' own work; and in many other ways to misjudge the real market."
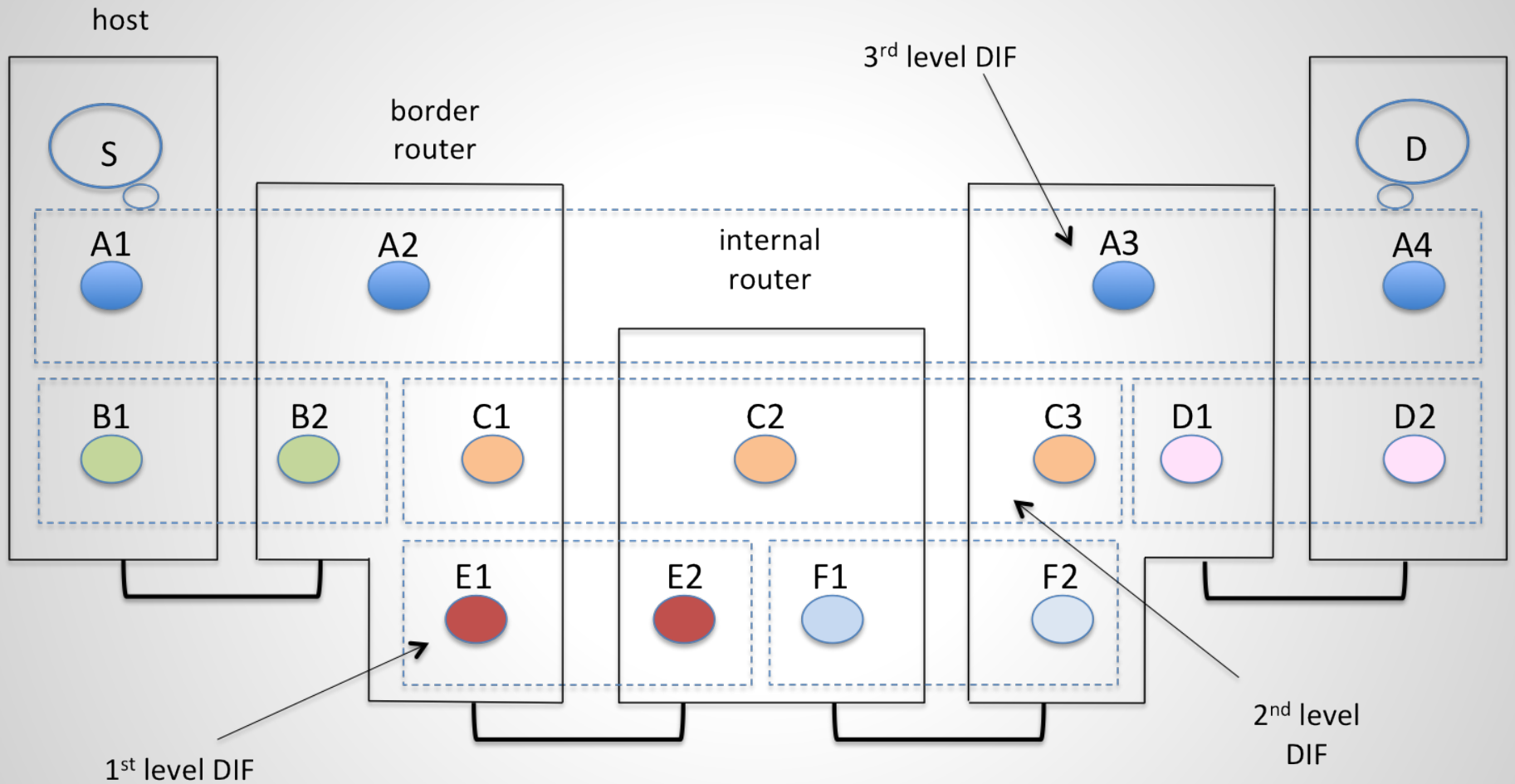
http://hintjens.com/blog:19

Constrained Optimisation?

"the process of optimizing an objective function with respect to some variables in the presence of constraints on those variable"

http://hintjens.com/blog:19

Conway's Law

"organizations which design systems ... are constrained to produce designs which are copies of the communication structures of these organizations"

host

border
router

3rd level DIF

internal
router

S

D

A1   A2   A3   A4

B1   B2   C1   C2   C3   D1   D2

E1   E2   F1   F2

1st level DIF

2nd level
DIF

Distributed Software Development Agents

"We can identify the kinds of communications a team uses, and qualify each one in terms of its latency and other properties. A meeting looks a lot like a global lock, or as Martin Thompson said more accurately, a cyclic barrier. Do we do code reviews before or after merging a pull request? That affects latency." - @hintjens

What is the computational efficiency of a software development process?

Thank You!