Architectural Simplicity through Events

Russ Miles

Simplicity itself

or

"Approaches to Dieting for Elephants in Software"

"Architectural?"

Decisions



Awareness

Build the Right Thing, Right

A Story...



"The Elephant in the Standup"

Axioms

Your software's first role is to be useful

The best software is that which is not needed at all

Human comprehension is King

Mechanical Sympathy is Queen

Software is a process of **R & D**

Software Development is an extremely challenging Intellectual Pursuit

Simplicity?!

Building Adaptable Software

Why don't we build Simple Solutions?



Simplicity in Architecture?

"The Allegory of the Relationship-Shy Component"

A true story

Freedom to express myself

To not be too tied down

Freedom to Move

Commitment

moveable, removable, substitutable, combinable, extendable"....

....clear, comprehensible, understandable.

Principles



Organise => Reduce => Encapsulate

Step I: Organise

Where should I be?

Hexagonal Architecture?





The Problems of 'Layering'

The Problems of 'Coupling'

Entanglement

Your Application is an Island

Ports

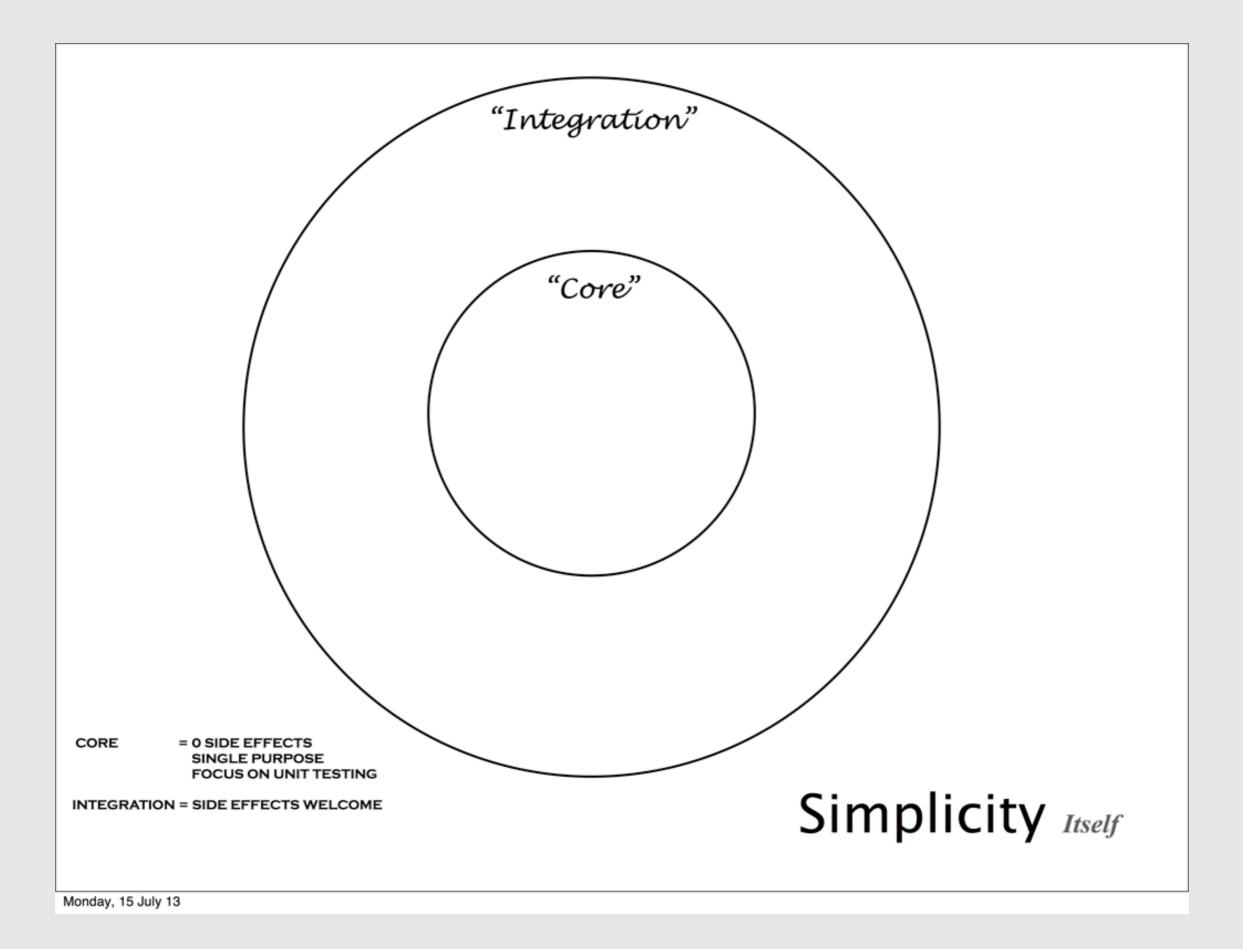
Adapters

Evolution

2012...

Life Preserver

Perspective? Tool? Approach?



Organise and Visualise

Implementation of Hexagonal

Am I 'Core'?

Am I 'Integration'? and if so, which one?

Who are my peer group?

Step I: Organise

Step 2: Reduce

Reduce Entanglement

Reduce Concerns

(Almost) Be a Function

Extract Side-Effects

Reduce Coupling

Language?

Method Name?

Parameters?

Events

Immutable Events

Temporal?



Immutable Events

Immutable Data

"Be liberal in what you accept, and conservative in what you send."

Intra-Domain Duplication

Inter-Domain Duplication

moveable, removable, substitutable, combinable, extendable"....

....clear, comprehensible, understandable.

Easier to 'strangle'?

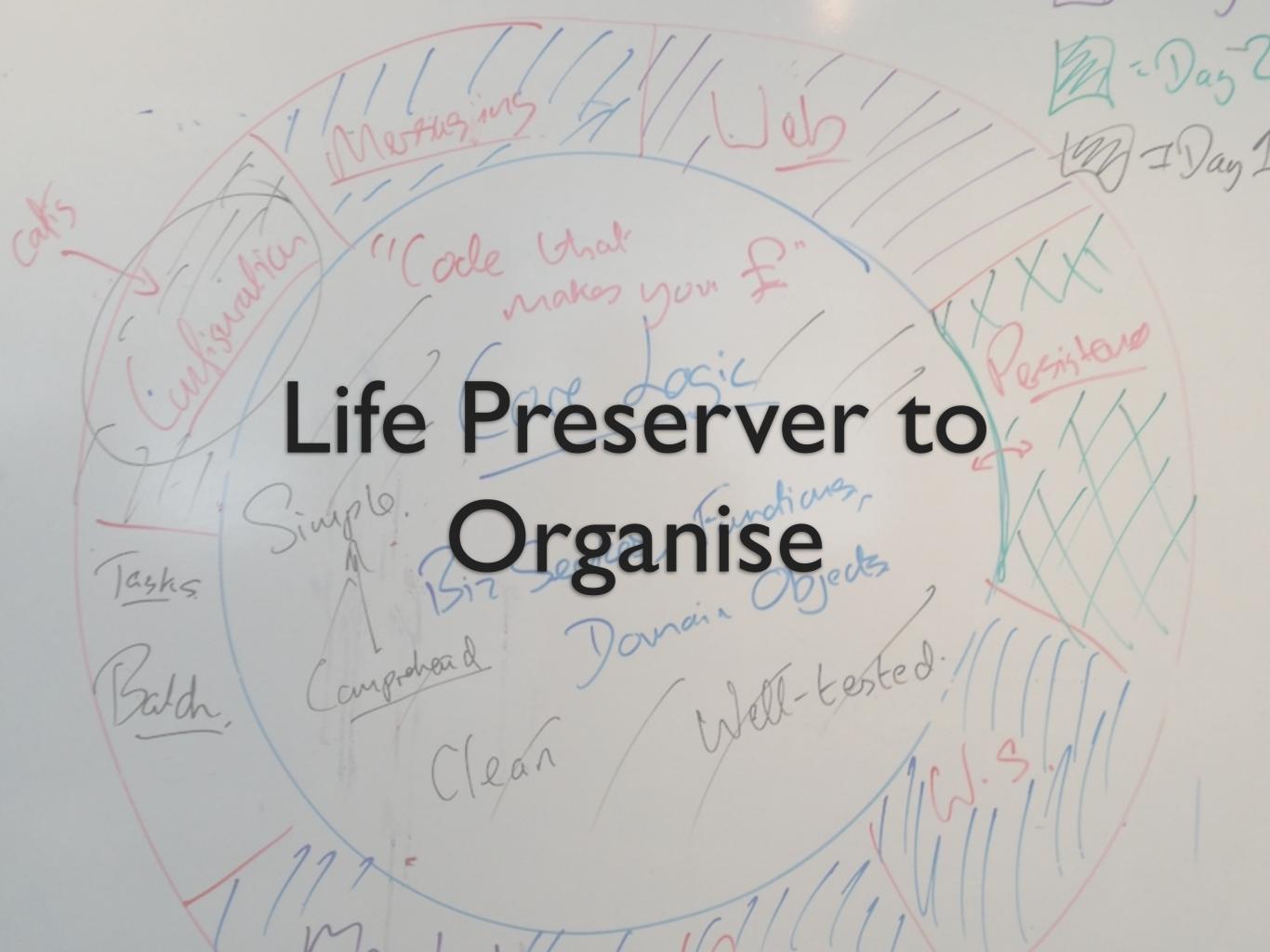
moveable, removable, substitutable, combinable, extendable"....

Summary

Simplicity helps us beat the Elephant(s) in the Standup



Organise => Reduce => Encapsulate



moveable, removable, substitutable, combinable, extendable"....

....clear, comprehensible, understandable.

Events De-Couple

Adaptable Software Wins

Thank-you

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