Architectural Simplicity through Events

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Simplicity itself
or
“Approaches to Dieting for Elephants in Software”
“Architectural?”
Decisions
Scope
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
moveable, 
removable, 
substitutable, 
combinable, 
extendable”....
...clear, comprehensible, understandable.
Principles
Organise =>
Reduce =>
Encapsulate
Step 1: Organise
Where should I be?
Hexagonal Architecture?
Back to 2005...
The Problems of ‘Layering’
The Problems of 'Coupling'
Entanglement
Your Application is an Island
Ports
Adapters
Evolution
2012...
Life Preserver
Perspective? Tool? Approach?
YES
"Integration"

"Core"

Simplicity *Itself*

**CORE** = 0 SIDE EFFECTS  
SINGLE PURPOSE  
FOCUS ON UNIT TESTING

**INTEGRATION** = SIDE EFFECTS WELCOME

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Organise and Visualise
Implementation of Hexagonal
Am I ‘Core’?
Am I ‘Integration’? and if so, which one?
Who are my peer group?
Step 1: 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?
Type?
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
O.R.E.
Organise =>
Reduce =>
Encapsulate
Life Preserver to Organise
moveable, removable, substitutable, combinable, extendable”....
...clear, comprehensible, understandable.
Events De-Couple
Adaptable Software
Wins
Thank-you

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