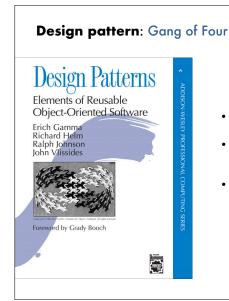
The elements of this language are entities called patterns. Each pattern describes a problem that occurs over and over again in our environment, and then describes the core of the solution to that problem, in such a way that you can use this solution a million times over, without ever doing it the same way twice.

Christopher Alexander



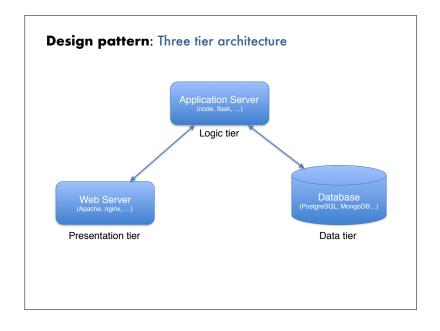
- - · Ways to create objects
- Structural

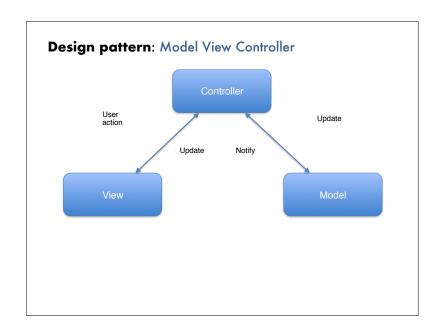
Creational

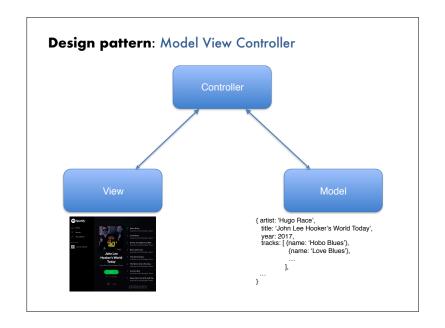
- Ways to combine/compose objects
- Behavioral
 - Ways to communicate between objects

Anti-patterns: Signs you are getting it wrong...

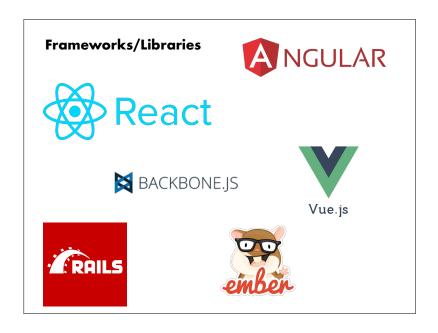
- Viscosity
 - Easier to do a hack than do the "Right Thing"
- Immobility
 - · Can't DRY out functionality
- · Needless repetition
- · Needless repetition
- · Needless repetition
- · Needless complexity from generality



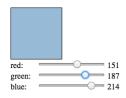








Frameworks



- Event based (e.g., Backbone)
 - Changing the data triggers an eventViews register event handlers
- Two-way binding (e.g. Angular)
 Assigning to a value propagates to dependent components and vice versa
- Efficient re-rendering (e.g. React)
 Re-render all subcomponents when data
 - changes

