

An underwater photograph of a vibrant coral reef. The scene is filled with various types of coral, including branching and table corals, in shades of green, yellow, and brown. Numerous small, dark fish are scattered throughout the water column, swimming above and around the reef. The lighting is bright, creating a clear view of the underwater environment.

# Reef

Ajax the way it should be

# Who am I?

- Esteban Lorenzano, 38
- In the community since 2007
  - Started “Smallworks” with two friends, to work on Smalltalk projects (Mostly).
- Other community projects: Mars, SqueakDBX, Gofer Project Loader



# Seaside is cool...

For all the reasons you already know

So, why we need another tool?



# So, what's Reef?

Javascript/Ajax component framework for  
Seaside



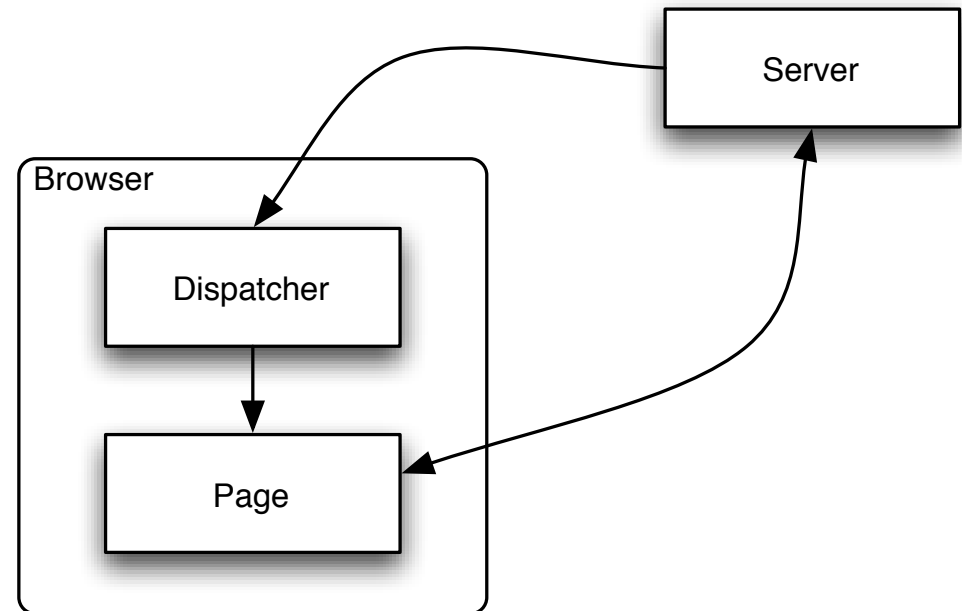
# The problem

We want to provide a transparent model, where all the different kinds of interactions are handled the same way.



# Architecture

Dispatcher at client side handles browser-to-smalltalk interaction.



# Architecture

- Uses jQuery
  - First version uses both: prototype and jQuery, but that was ugly and fortunately deprecated



# Architecture

- “Some kind” Model-View-Controller
  - but, as Seaside, Reef components has view-controller at the same place.





# Architecture

- You can add any component (with any complexity) as a Seaside component.
- call `#asComponent`



Relax moment



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# Component model

- You create your components
  - by extending a REContainer (can be REPanel, REForm, etc.)
  - or creating a widget structure inside a Seaside component.
- Right now, just those widgets I needed... but extensible any time.



# Demo

# Conventions

- Buttons should trigger an action, not a form submission. (#callback:)
- Forms should allow triggering (#trigger, #triggerThenDo:)
  - Form widgets also
- Just panels can be refreshed (#refresh, #refreshThenDo:)



# Demo

# Using callbacks

- Simple callbacks. It fires a “dispatch” action, which is a simple “jQuery load” (but you don’t do it).
- Client callbacks. Generates a jQuery script, which is executed in the browser.
- Page callbacks. It renders a new page.



# Demo



# Context

- Some times you need to force some behavior, and you need to know if you are inside a Reef callback or a normal callback.
- REContext
  - #isInContext
  - #inPage:, #inClient:
- Example: REComponent>>#answer renders a new page



# Demo

Relax moment



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# Decorations

- Just like Seaside, your components can be decorated to add behavior
- Unlike Seaside, you can decorate widgets too. It allows elegant adding of plugins.
  - Numeric format on text field
  - Date format on text field



# Demo

# Plugins

- You can easily add jQuery plugins, just need to find the right insertion point
- Most of the times they can be added to existing widgets through decorations (e.g. `RETextField>>#beDate`)



**No more demos**

# What's next?

- Add more components
- Getting some feedback from the community
  - Please, use it!





Questions?

<http://squeaksource.com/Reef>