

A vibrant underwater coral reef scene. The water is clear and blue, with sunlight filtering through from the surface. The reef is composed of various types of coral, including branching purple and yellow corals, large flat yellow-green corals, and smaller, more intricate structures. There are also several small, spotted fish swimming around the coral.

# Reef

AJAX the way it should be

**Who am I?**

# Who am I?

- The guy who builds a VM, and everybody hates because their plugins are not ready

# Who am I?

- The guy who builds a VM, and everybody hates because their plugins are not ready
- He also does some Seaside time to time

# Last year...

- Reef presentation was a big success (thanks!)
- Some of you tried it and provide valuable feedback...

But not everybody present here today  
was present last year...

So... what's Reef?

**“The problem”**

# Nesting problem

Functionality is distributed all around the component  
(and could be worse)

- renderContentOn:

- [sends renderRegionsOn:

- [sends renderCitiesOn:

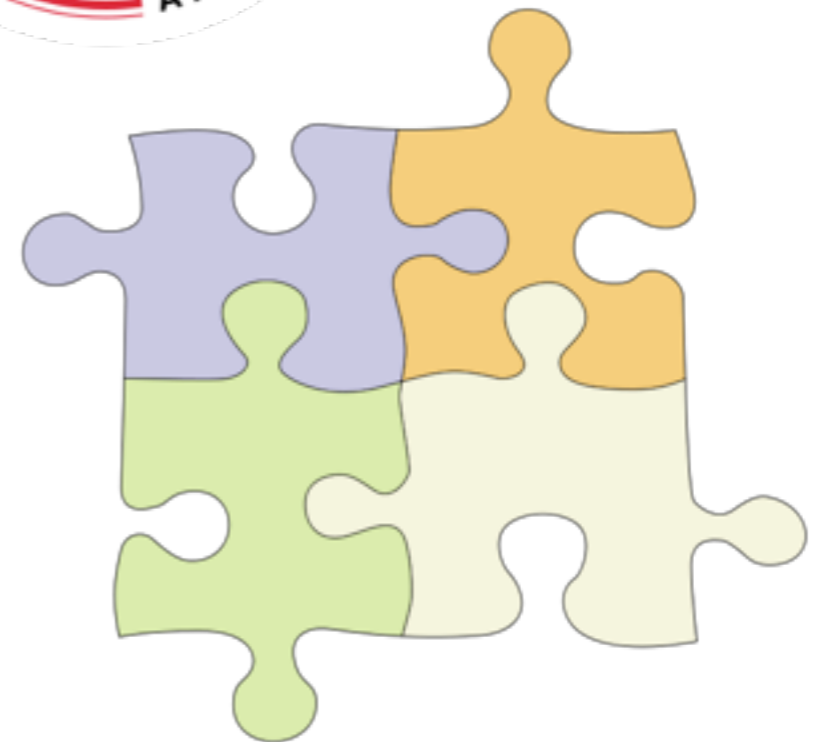


# Nesting problem

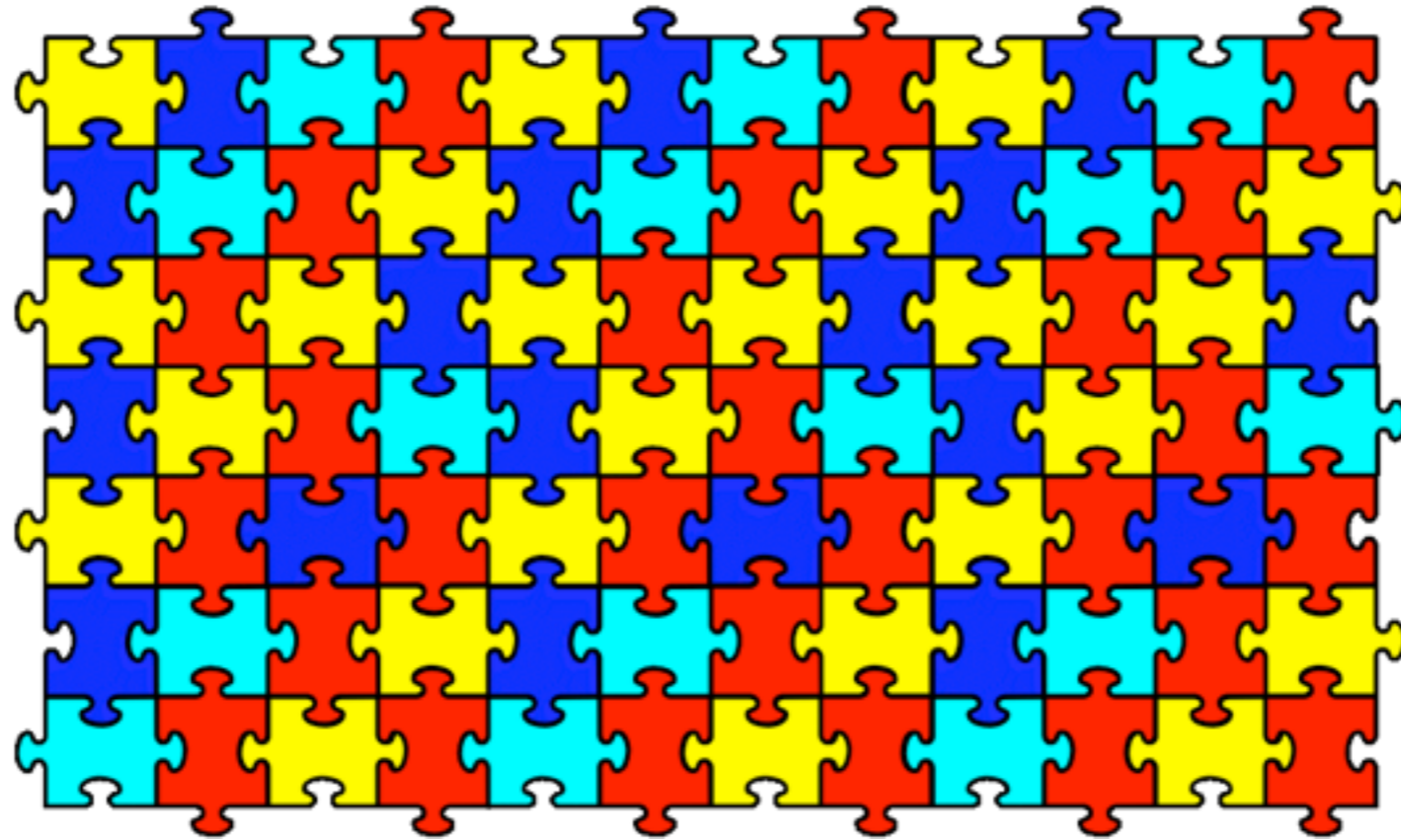
Real problem is we are still programming in HTML  
(yes, with smalltalk “flavour”, but still HTML)

# Reef summary

AJAX/Javascript  
component  
framework for  
Seaside.



# Reef summary

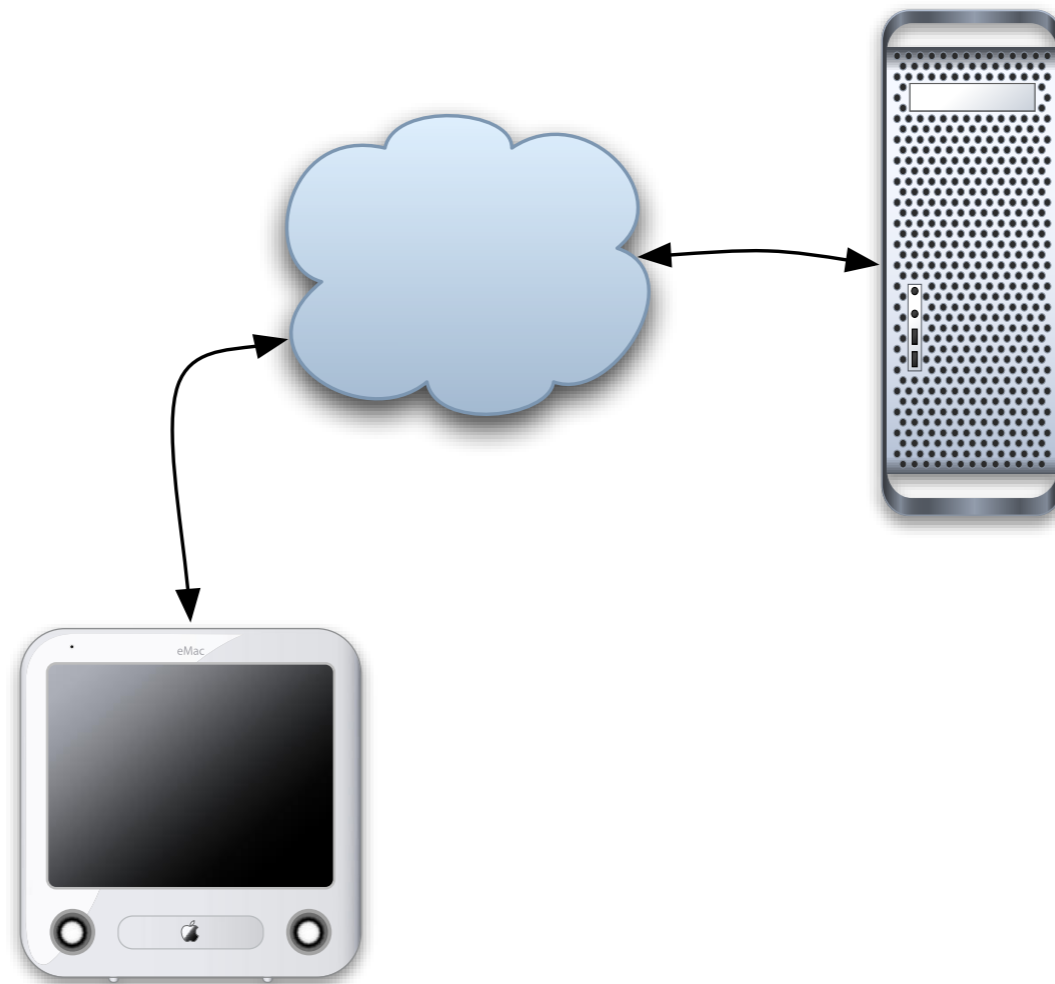


Models HTML/Javascript components  
into Smalltalk objects

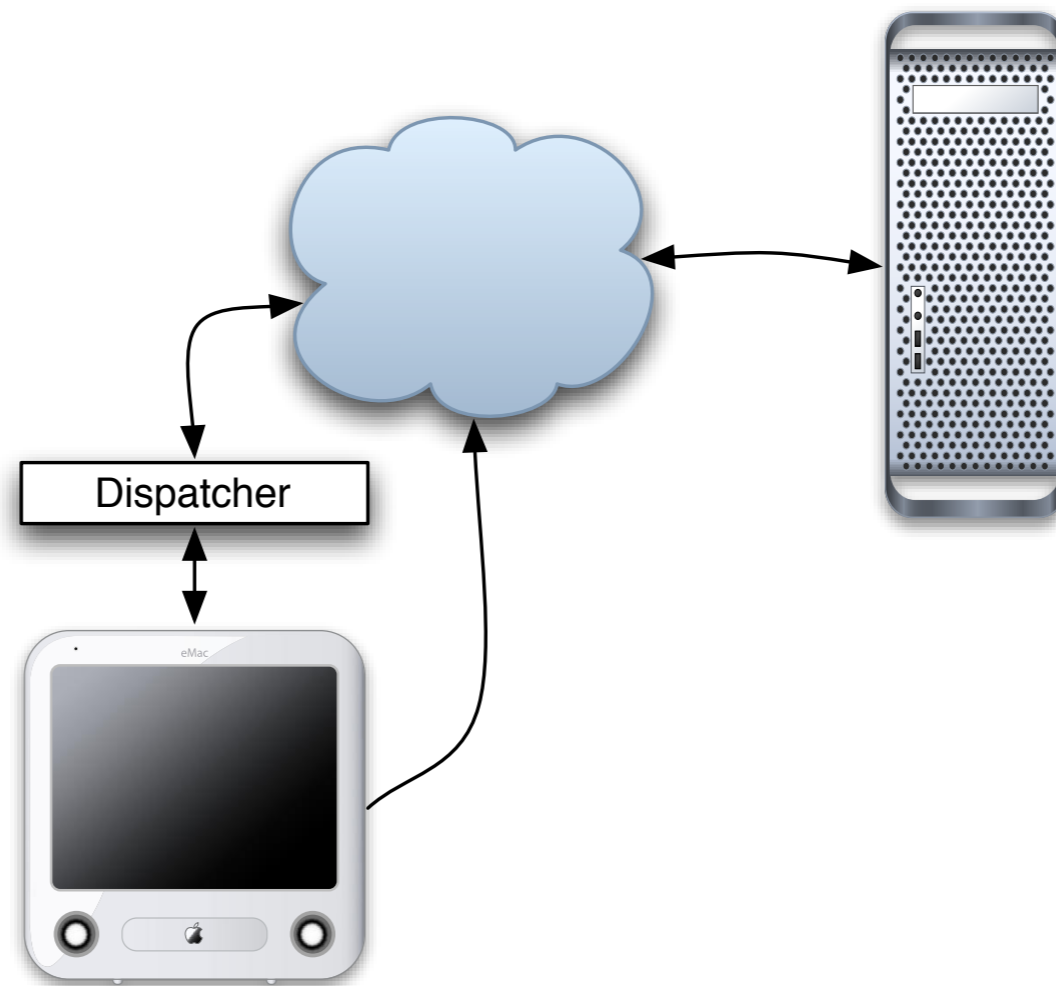
# Reef summary

Hides communication complexity

# Reef architecture



# Reef architecture



# A trade-off

(yep, there is always one)

An extra request  
(not always, but enough to be taken into account)

# Communication

- We handle interactions through callbacks, just as Seaside
- But all callbacks should be treated the same
  - AJAX calls
  - regular requests
  - client behavior



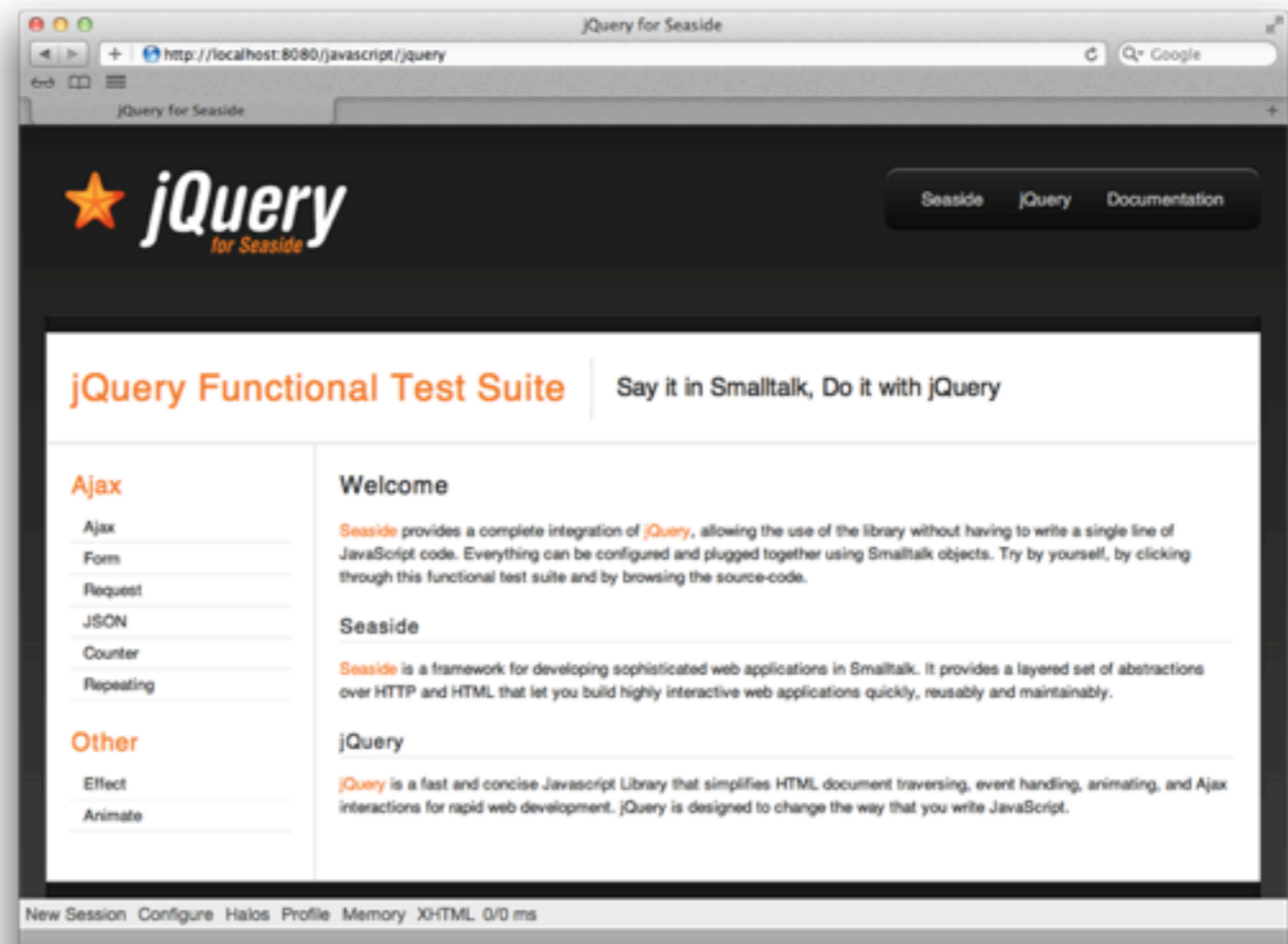
Example



Coming to your image... this year!

# What changed (for good)

Better  
integration with  
jQuery:  
skins, widget box



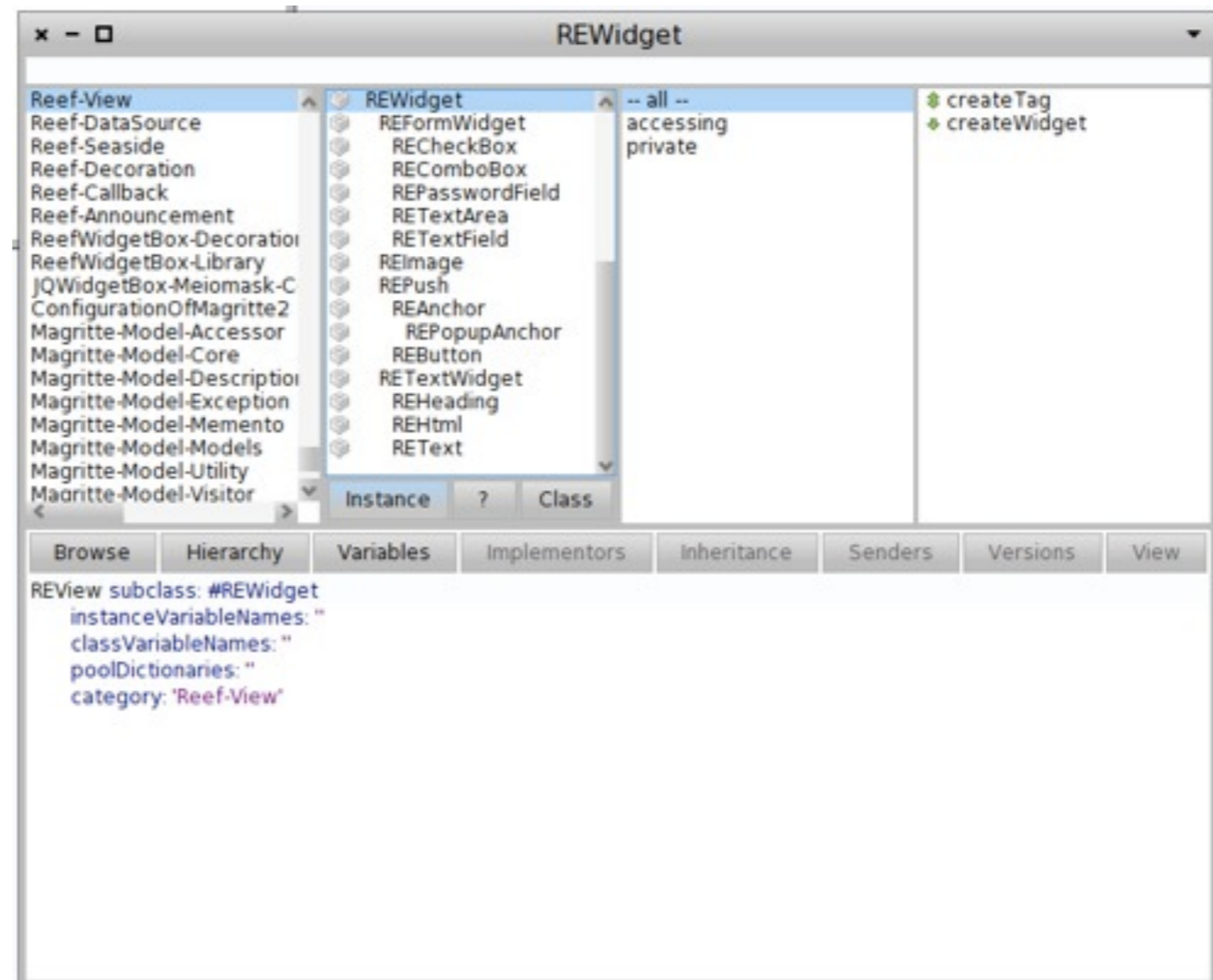
# What changed (for good)

An important  
optimization:  
`#asReefTriggerCallback`



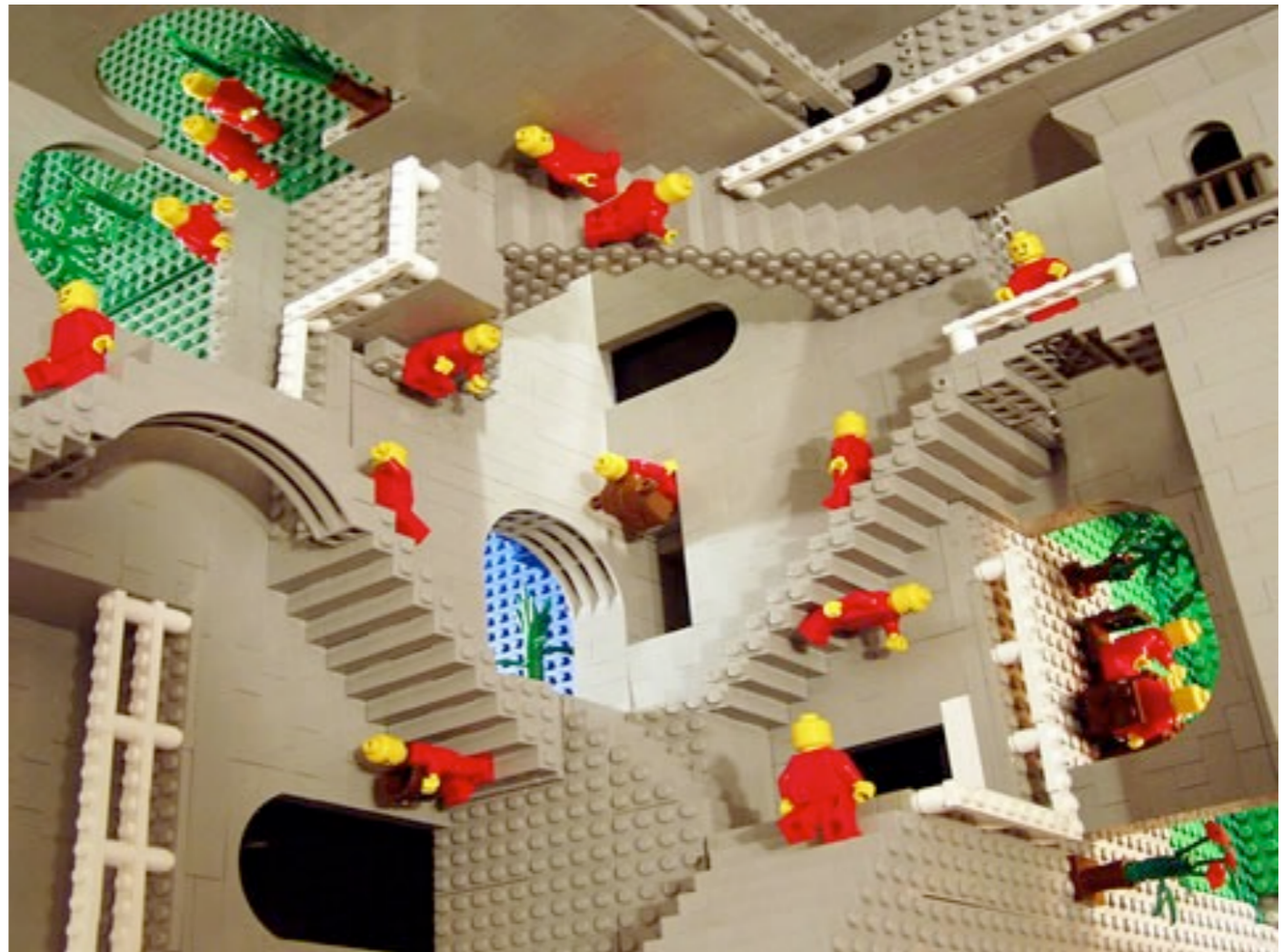
# What changed (for good)

More widgets  
(but still just  
those I need)



# What's new (and testing)

Composites



# What's new (and testing)

- Magritte-Reef
  - Brings web 2.0 to Magritte-Seaside
  - Ease cool effects:
    - tooltips, masks, etc.
  - Complex behaviors



# What remains (and it shouldn't)



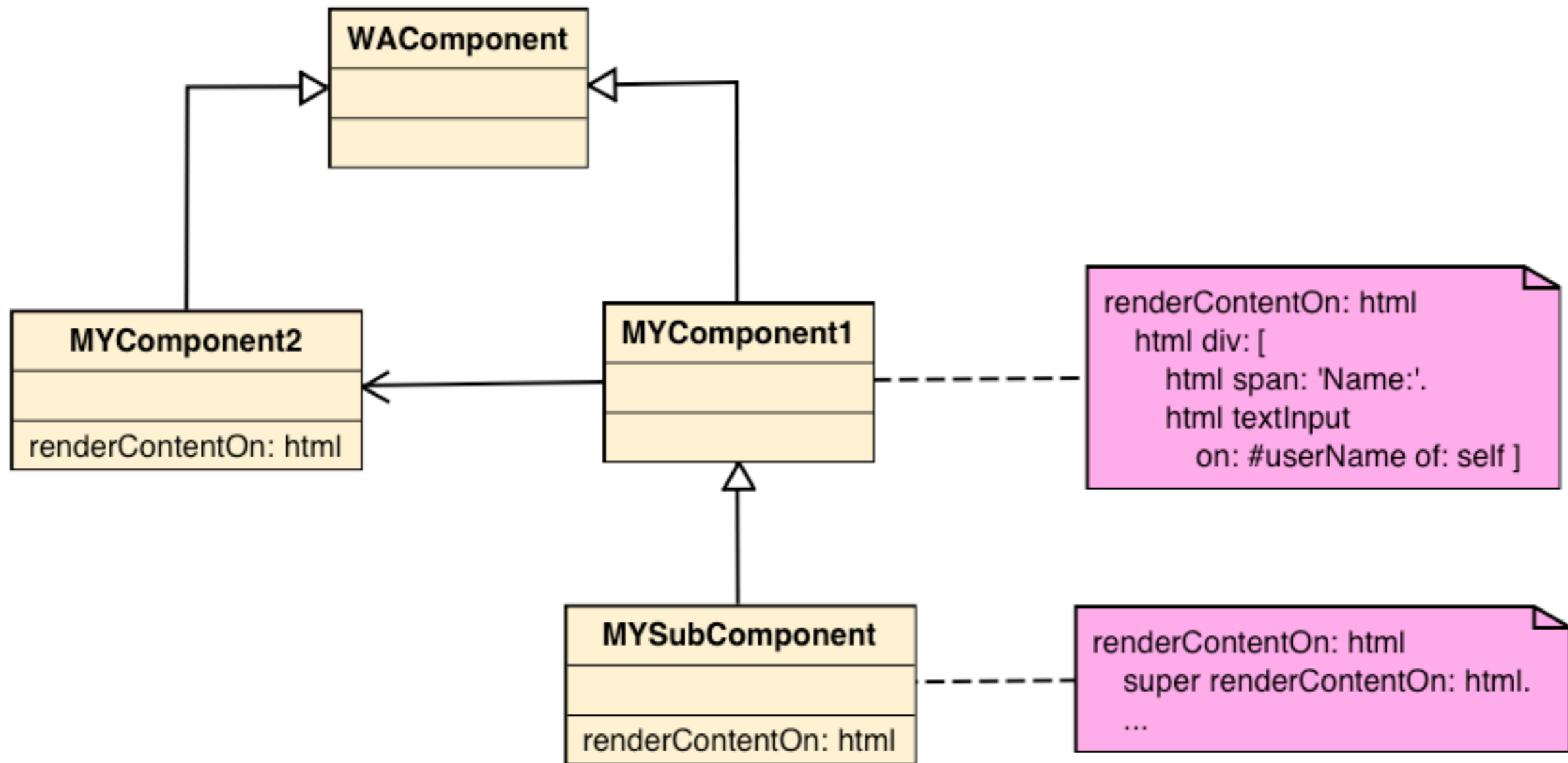
- Documentation is still poor
- Reef protocol names are still ugly
- Testing is still non-existent



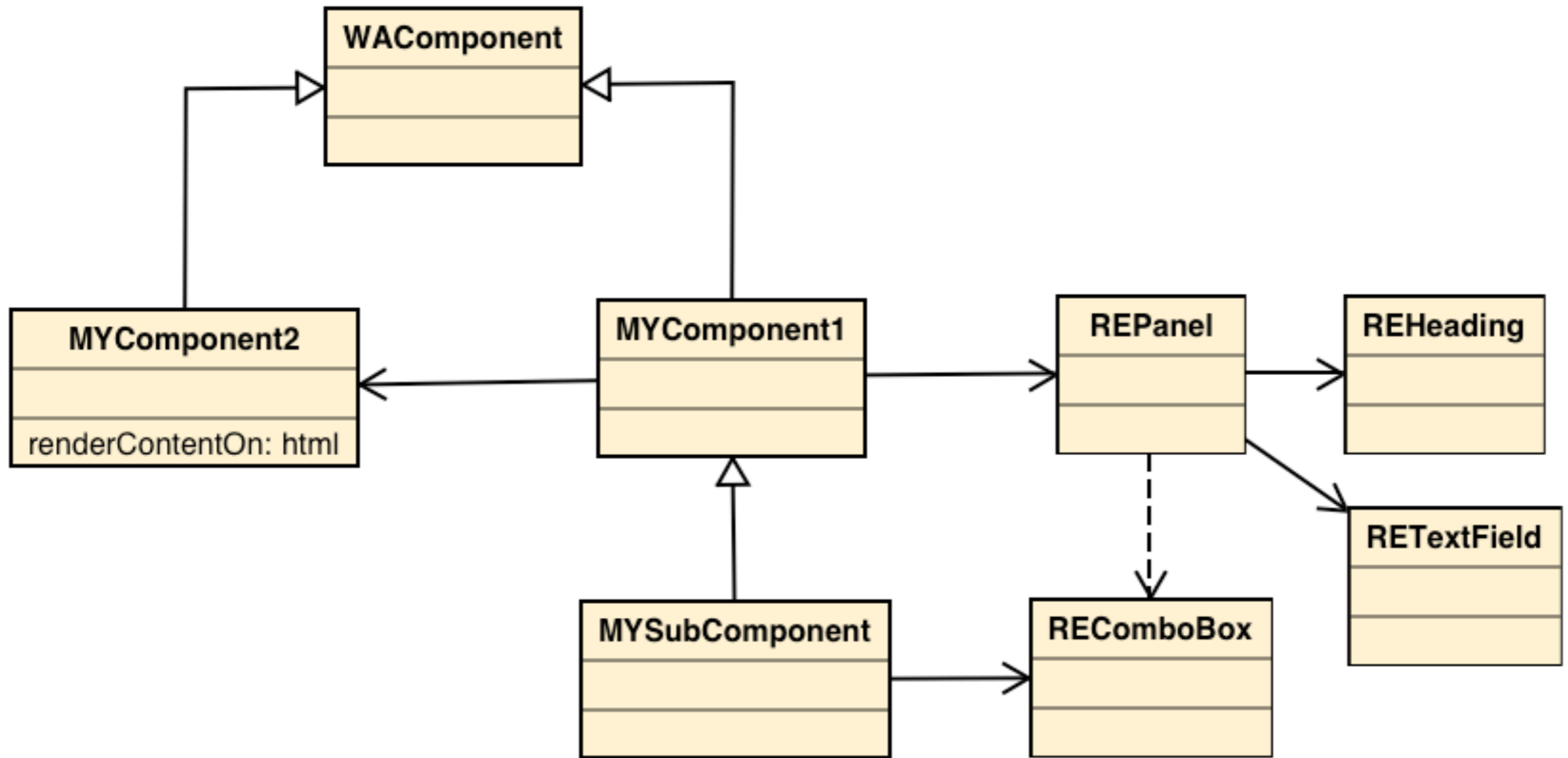
# The heresy revisited

(we need to be heretics again)

# you know:



# why not:



# Future work

- Still experimenting with optimizations around the dispatcher
- Rename all protocols into something really meaningful
- Write more documentation (like finalize the chapter for PBE2)
- More feedback?

Questions?

<http://squeaksource.com/Reef>

