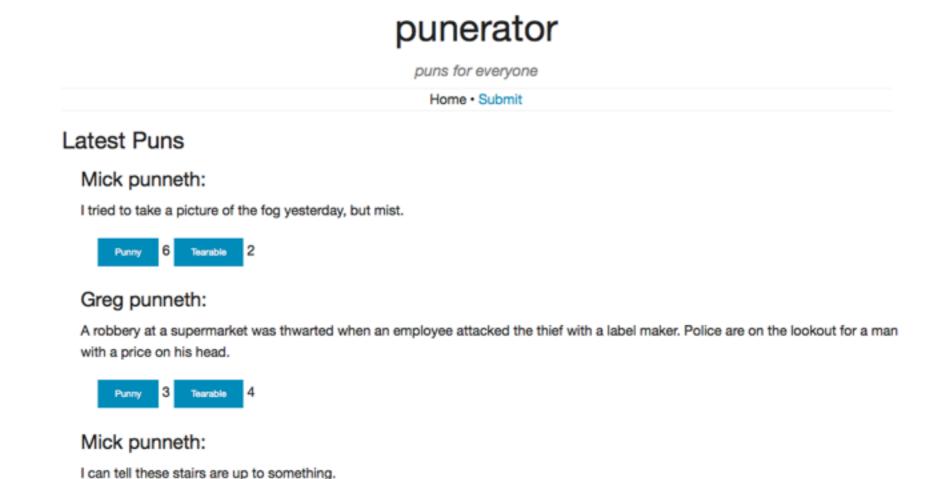


Building your Web Application Muscles with Lift

Matt Farmer May 6th, 2015 Sorry, I was sick.

Tonight's Demonstration

- A site for submitting and voting on puns.
- URL: http://punerator.frmr.me
- Source: https://github.com/farmdawgnation/punerator



Lift is a bit different.

The Seven Things

- 1. Lazy Loading
- 2. Parallel Page Rendering
- 3. Comet and AJAX
- 4. Wiring
- 5. Designer-friendly Templates
- 6. Wizard
- 7. Security

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Designer-friendly Templates

Lift is not an MVC framework.

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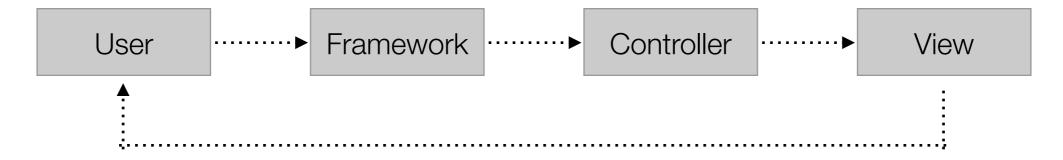
Well, maybe a little but not completely.



MVC vs. View First

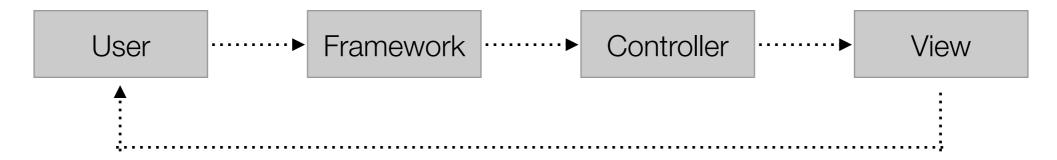
MVC vs. View First

Typical MVC Framework

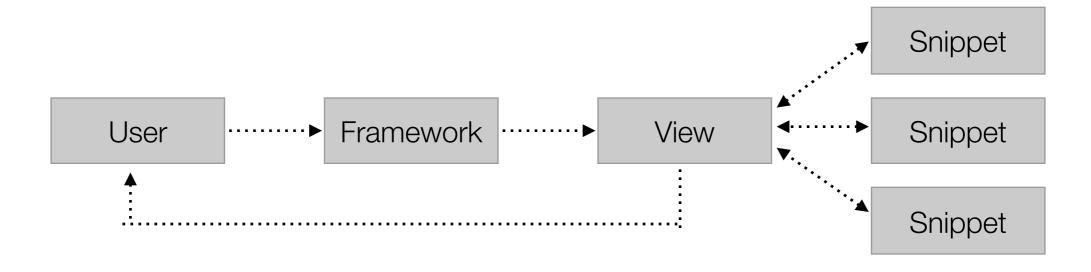


MVC vs. View First

Typical MVC Framework



Lift



Snippet (NodeSeq) => NodeSeq

Snippet (NodeSeq) => NodeSeq

CSS Transforms

Snippet (NodeSeq) => NodeSeq

CSS Transforms



Snippet (NodeSeq) => NodeSeq

CSS Transforms



Snippet (NodeSeq) => NodeSeq

CSS Transforms Magic

Snippet (NodeSeq) => NodeSeq

CSS Transforms Magic

DSL (Domain Specific Language)

Snippet (NodeSeq) => NodeSeq

CSS Transforms Magic

DSL (Domain Specific Language)

".date *" #> invoice.date

Snippet (NodeSeq) => NodeSeq

CSS Transforms Magic

DSL (Domain Specific Language)

".date *" #> invoice.date

CSS Selector

Snippet (NodeSeq) => NodeSeq

CSS Transforms Magic

DSL (Domain Specific Language)

".date *" #> invoice.date

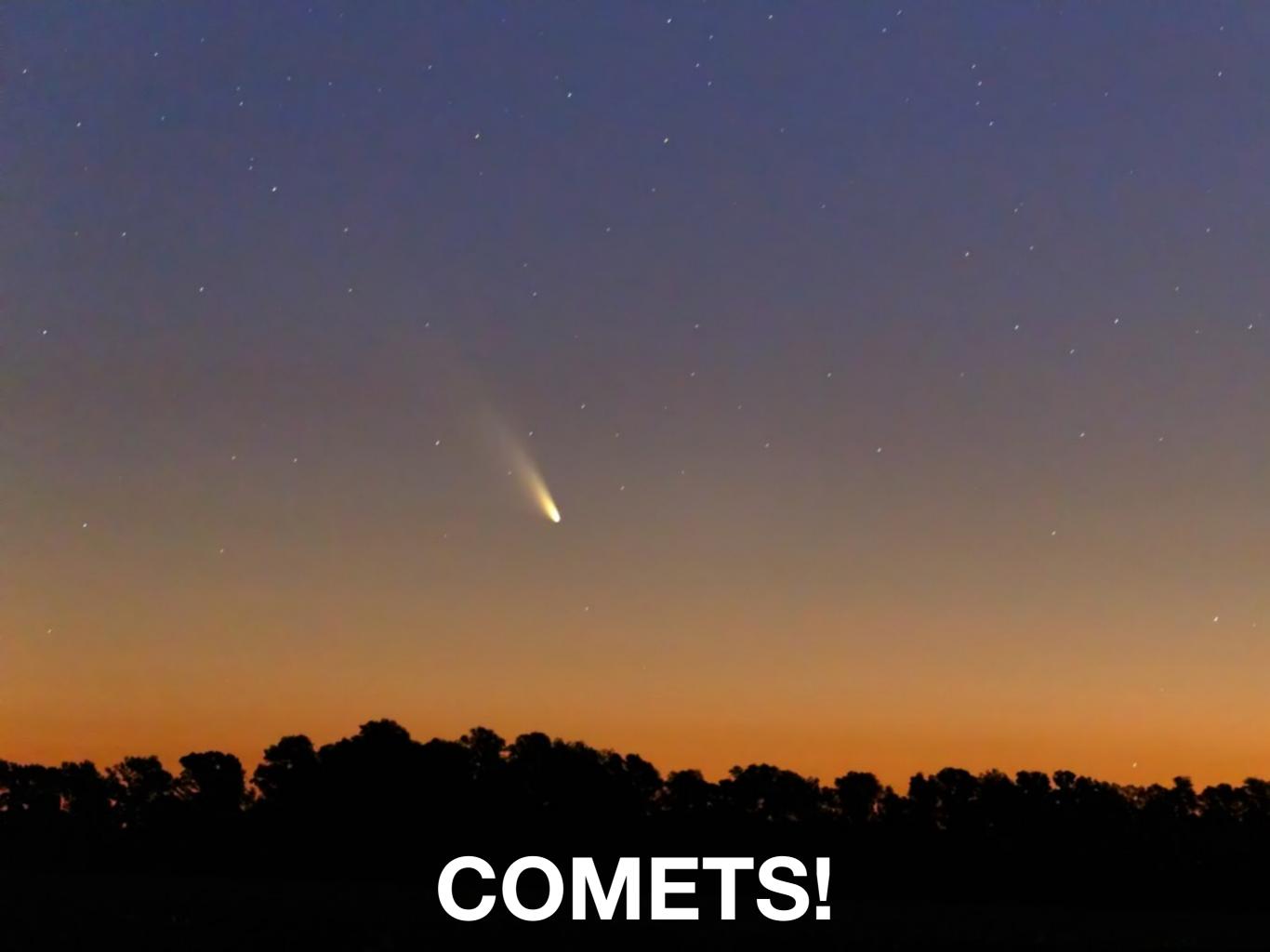
CSS Selector Content

• Lift templates are just HTML.

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- Lift finds things to change using CSS selectors.

- Lift templates are just HTML.
- Lift finds things to change using CSS selectors.
- Any designer who understands HTML and CSS can make changes relatively safely.

Let's see some code.



Why not WebSockets?

https://groups.google.com/d/msg/liftweb/ 1fa3rolbnvl/enV5CFm2Rd4J

 What if we could represent the page a user's browser is viewing as an actor?

 What if we could represent the page a user's browser is viewing as an actor?

CometActor

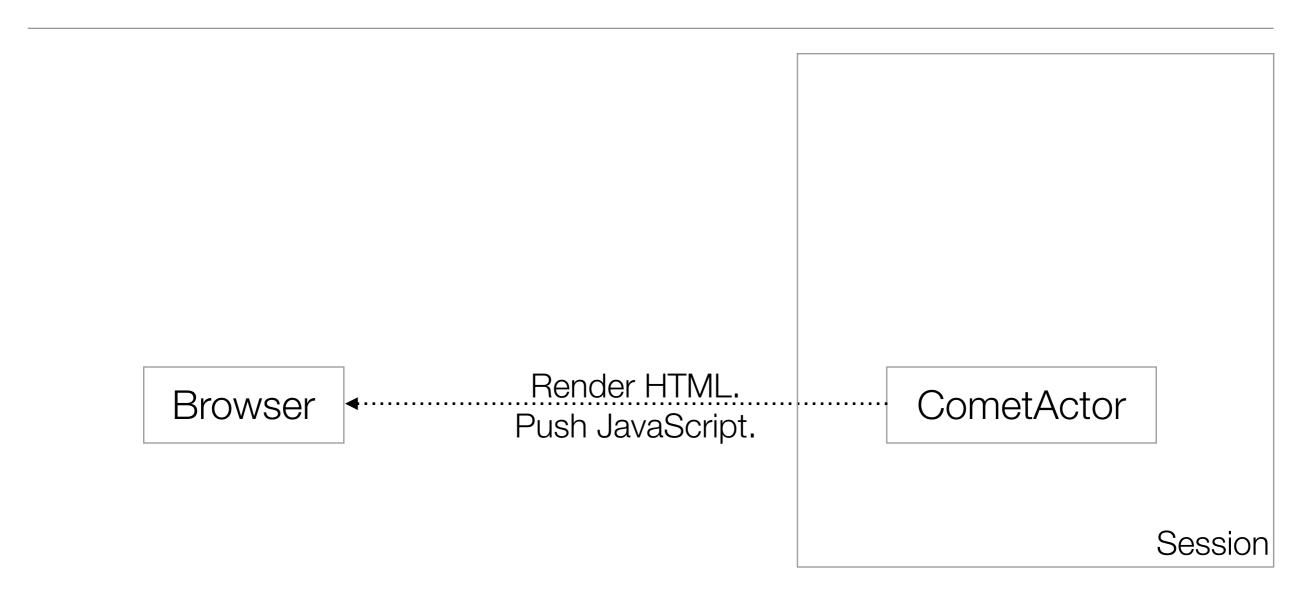
Browser

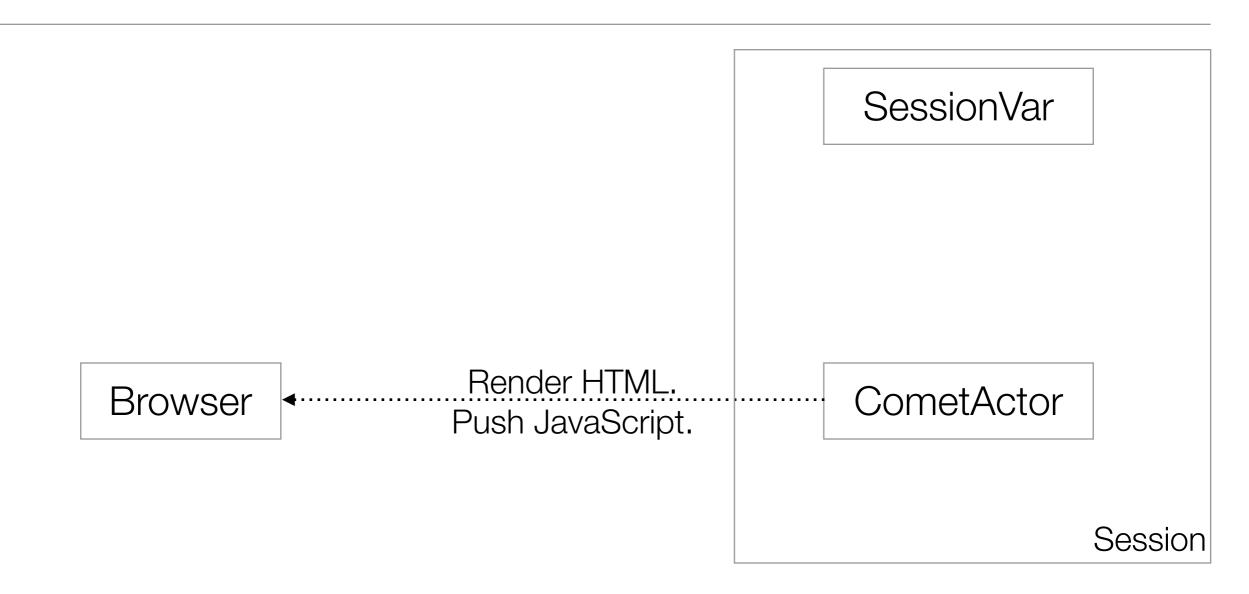
CometActor

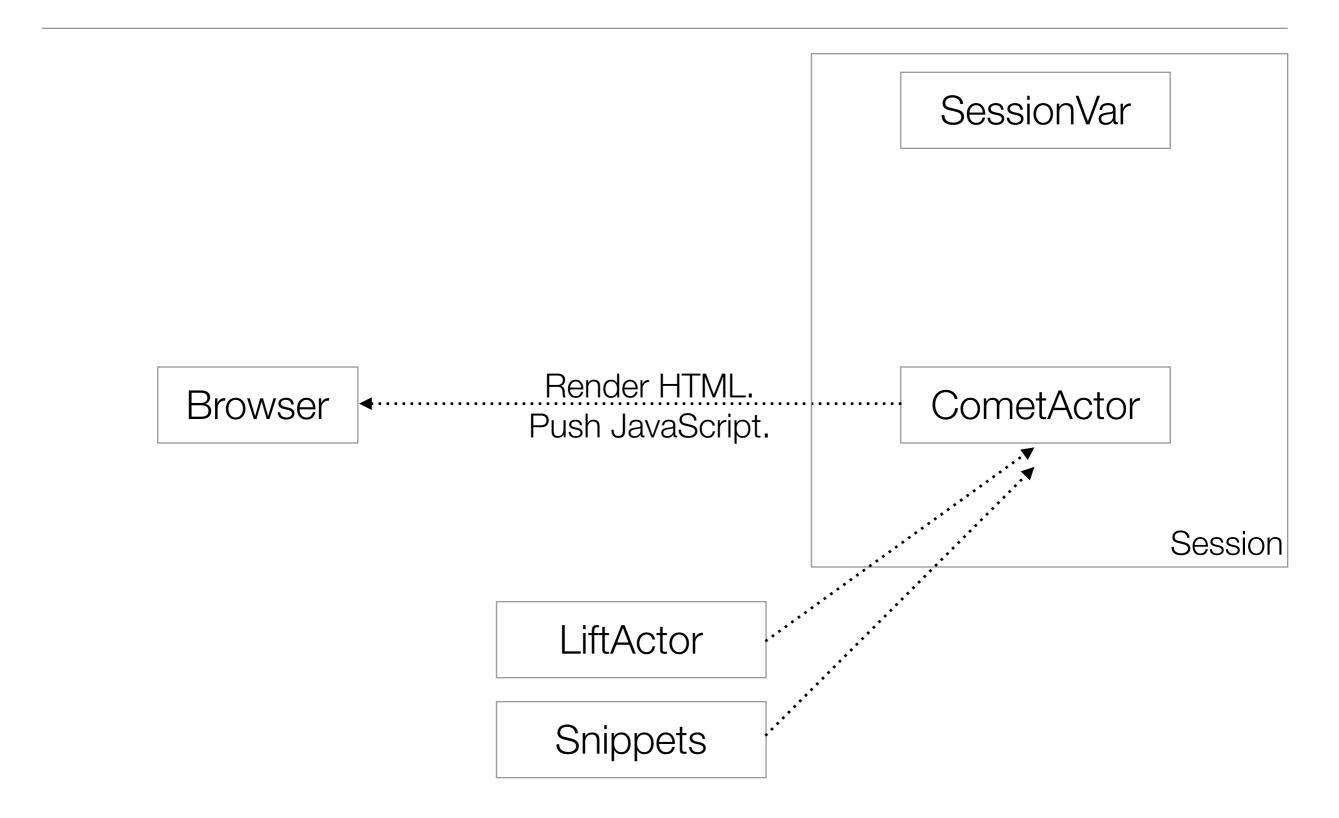
Browser --- CometActor

Browser Render HTML. CometActor

Browser Render HTML. CometActor







Loading the relevant client side bits.

- Loading the relevant client side bits.
- Detecting when a CometActor isn't needed.

- Loading the relevant client side bits.
- Detecting when a CometActor isn't needed.
- Handling connectivity issues.

Let's see some code.

Further reading

- The Lift Website http://liftweb.net
- Lift Template Projects https://github.com/lift/lift 26 sbt
- The mailing list http://groups.google.com/group/liftweb
- The Seven Things: http://seventhings.liftweb.net
- The Lift Cookbook: http://cookbook.liftweb.net

Thank you.

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- "Are your eyeballs running?" https://flic.kr/p/4HbQj2
- "Comet Panstarrs March 2nd 2013" https://flic.kr/p/dZdD7k