Anders Jönsson:

A PJAX STORY

I'M ANDERS,
I LOVE WEB & AGILE

SLIDES & CODE:

https://github.com/archive/sthlm_js-pjax

FEEL FREE TO ASK
QUESTIONS AT ANY TIME

QUESTION TO THE AUDIENCE:

THE STORY:
A NEW SITE FOR TRADERA.COM

TELIA
22:26
tradera.com
Tradera
DEALS
Image by placeit

super seo friendly

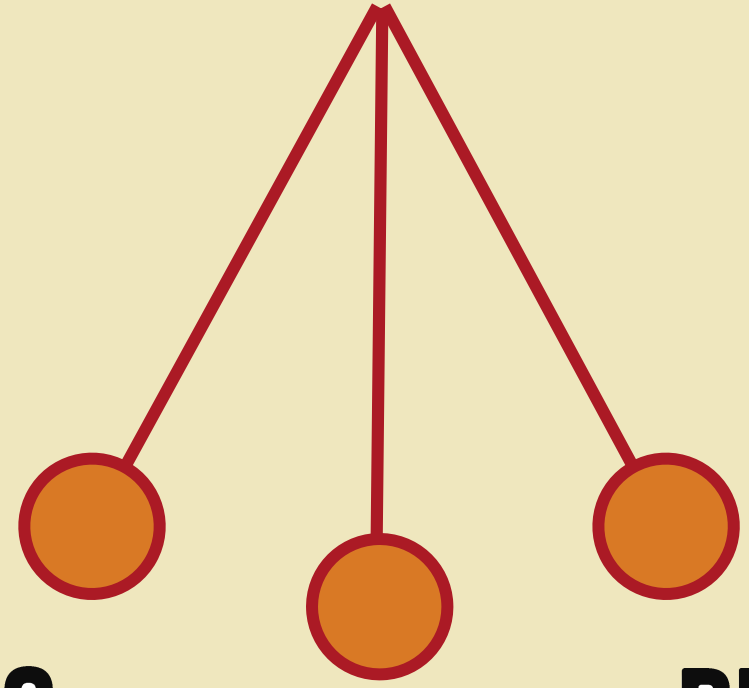
any device

CONSTRAINTS

back-end heavy teams

lightweight = fast

ALTERNATIVES?



SERVER RENDERING (MPA)

PJAX!

CLIENT RENDERING (SPA)

PJAX?

aka change browser url
without page reload

PUSHSTATE + AJAX

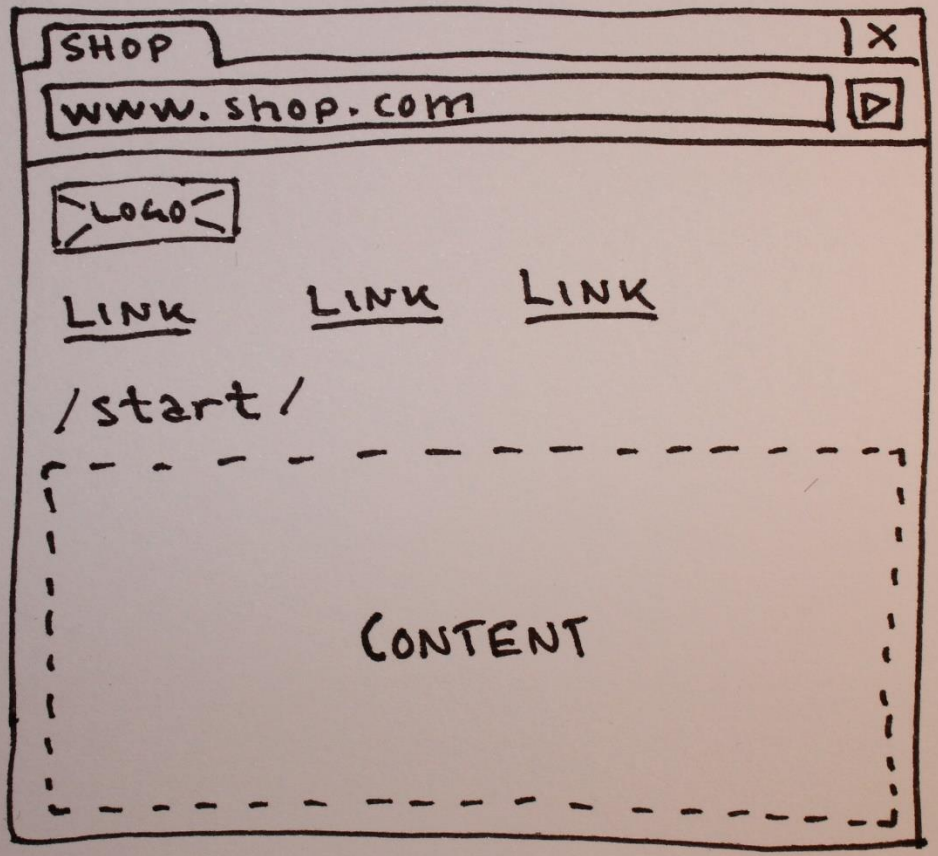
WHY?

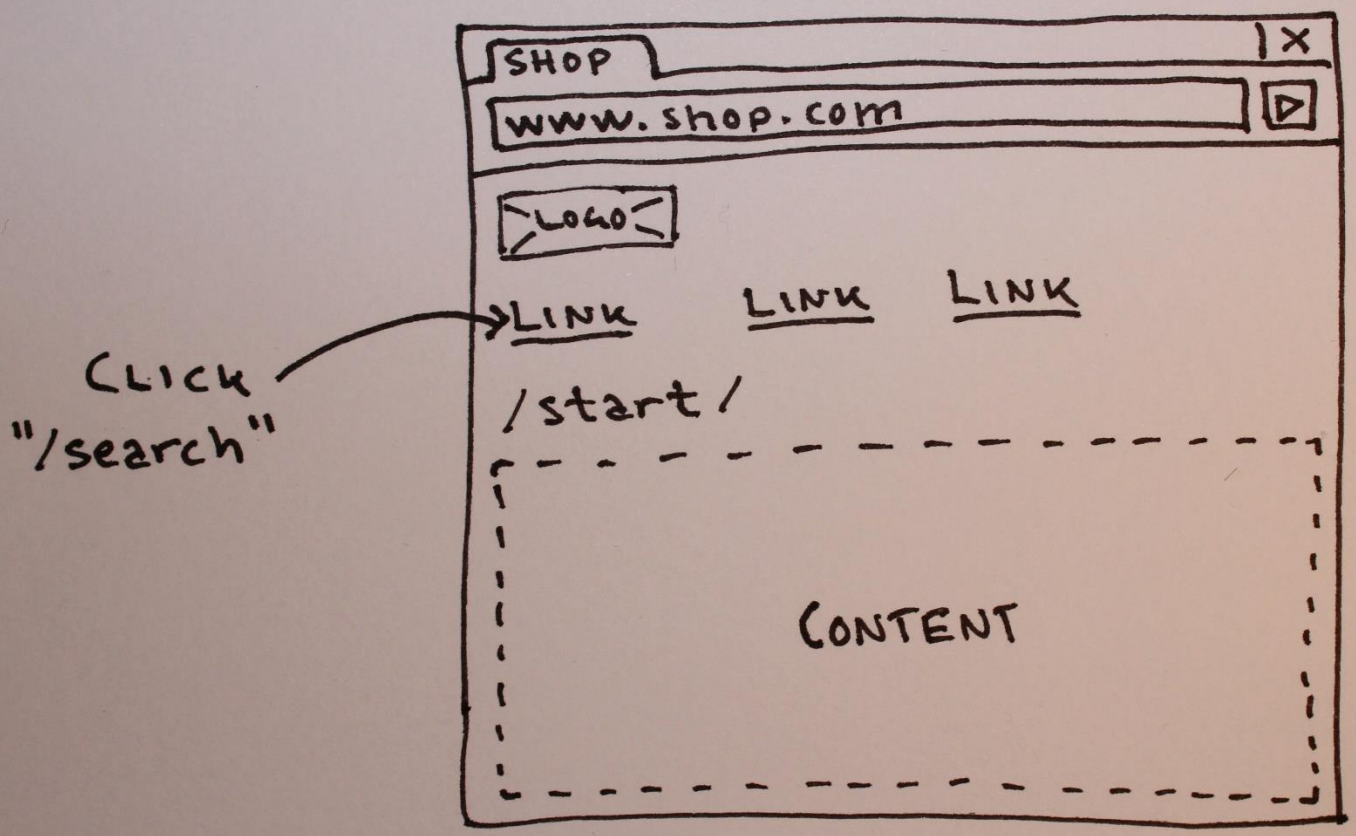
SPEED!

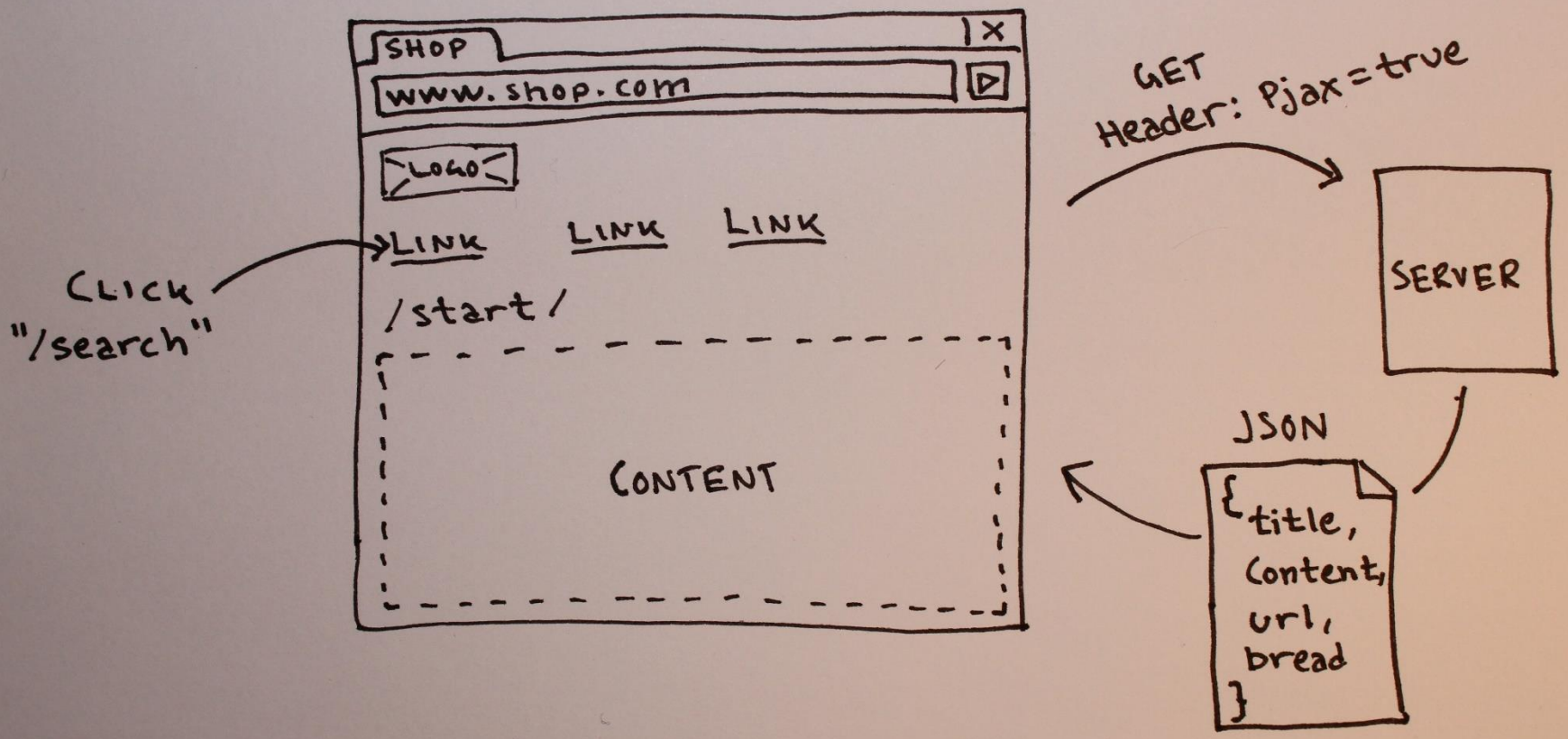
CONCEPTUAL FLOW (AKA HOW)

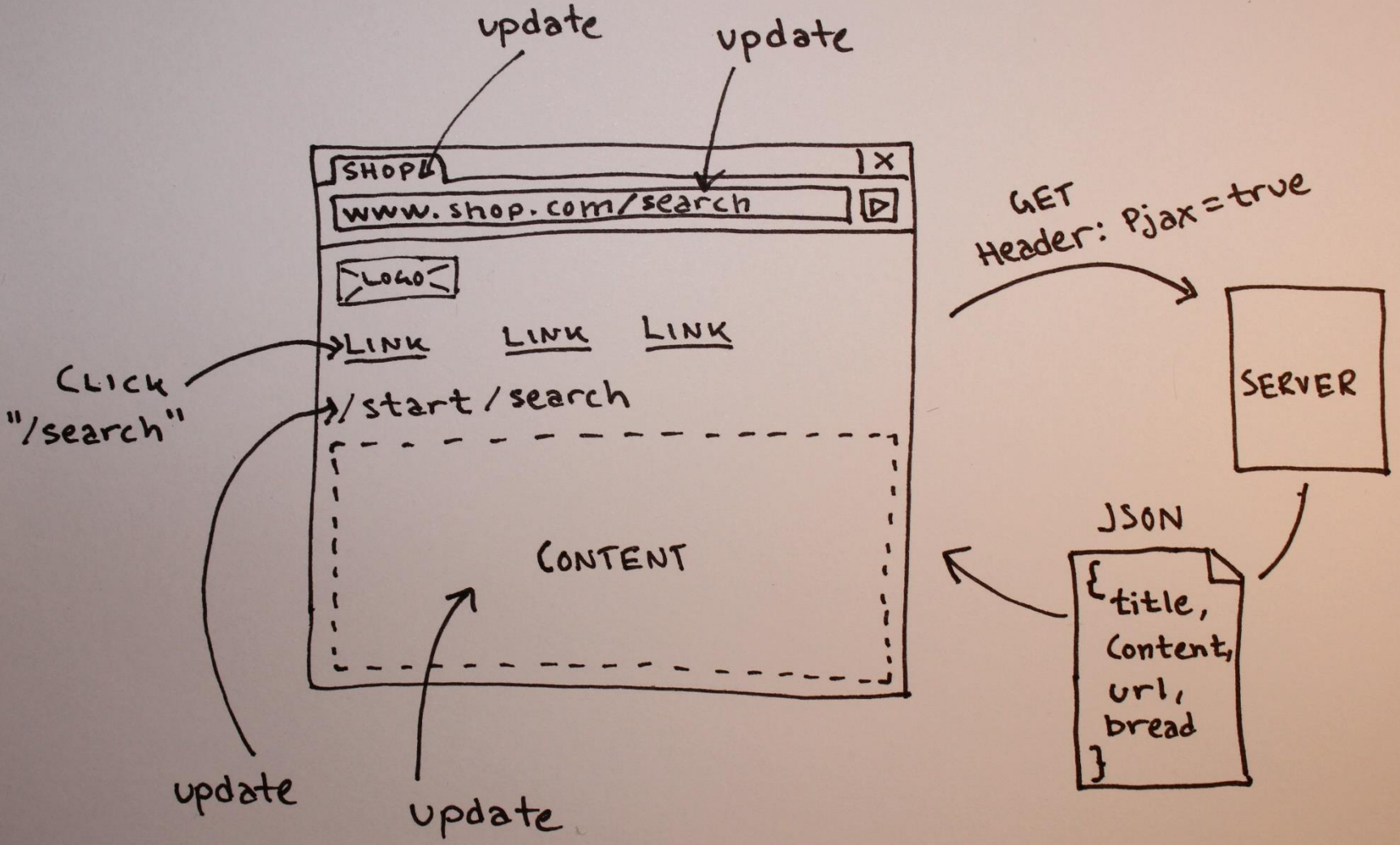
ENHANCING LINKS

<a href="/search" data-pjax>...</a>


SHOP
www.shop.com
LOGO
LINK
LINK
LINK
/start/
CONTENT

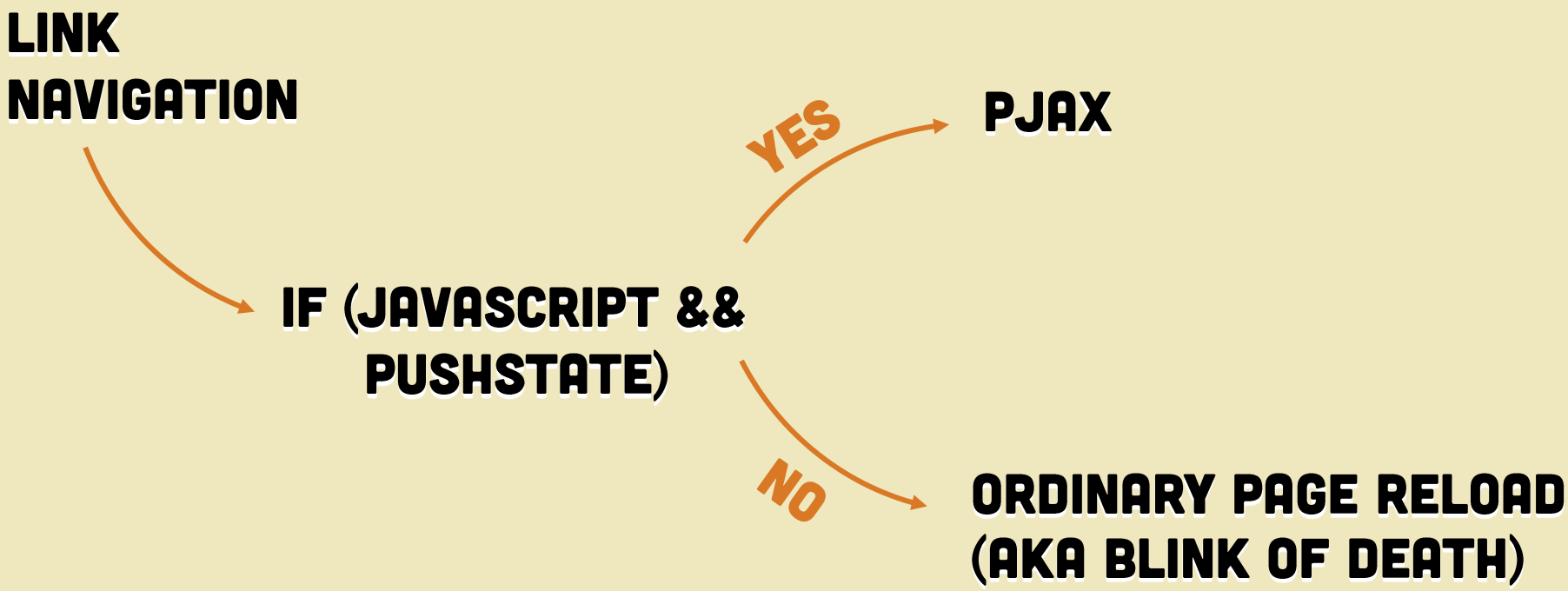

SHOP
www.shop.com
LOGO
LINK
LINK
LINK
/start/
CONTENT
CLICK
"/search"


SHOP
www.shop.com
LOGO
LINK
LINK
LINK
/start/
CONTENT
Click
"/search"
GET
Header: Pjax=true
SERVER
JSON
{
title,
Content,
url,
bread
}


update
update
SHOP
www.shop.com/search
LOGO
LINK
LINK
LINK
/start/search
CONTENT
GET
Header: Pjax=true
SERVER
JSON
{
title,
Content,
url,
bread
}
Click
"/search"
update
update

AHA! WHAT HAPPENS IF THE JAVASCRIPT BREAKS OR JAVASCRIPT DISABLED?

PROGRESSIVE ENHANCEMENT



Notes | Known issues (1) | Resources (7) | Feedback — Edit on GitHub

Older iOS versions and Android 4.0.4 claim support, but implementation is too buggy to be useful. Partial support in other Safari browsers refers to other buggy behavior.

Notes | **Known issues (1)** | Resources (7) | Feedback — Edit on GitHub

1. history.pushState() is buggy in Android 2.2 and 2.3 in that it doesn't cause window.location to update with the new URL. This works in all other browsers that support pushState(). See Android bug report.

Method of manipulating the user's browser's session history in JavaScript using history.pushState, history.replaceState and the popstate event

Partial support: 3.76%

Total: 75.63%

Show all versions	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Blackberry Browser	IE Mobile
								2.1		
								2.2		
						3.2		2.3		
						4.0-4.1		3.0		
				5.1		4.2-4.3		4.0		
				6.0		5.0-5.1		4.1		
						6.0-6.1		4.2-4.3	7.0	
					19.0	7.0	5.0-7.0	4.4	10.0	10.0
					20.0					
					21.0					

Edit on GitHub

but implementation is too buggy to be useful. Partial support in

or.

(http://caniuse.com/#search=pushstate)

Image, Fry: http://www.anxietysymptomsdr.com/wp-content/uploads/2012/11/panic-attack-symptoms.png

ADVANTAGES

- server-side rendering (knowledge reuse in our case)
- low risk
- fast page loading
- only parse css/js once
- less data over the wire
- client cpu friendly (compared to SPA)

scroll position
complexity
server-side rendering
CHALLENGES
browser loading symbol
browser "back" cache (ios)

SENDING HTML OVER THE WIRE? ARE YOU #!*£@¤§ INSANE?

ADD AND REMOVE EVENT LISTENERS

SILVERBULLET?

DEMO!

HOW DID IT GO FOR TRADERA?

faster page load than expected

a lot of scroll position problems

PRETTY GOOD...

our next step: a/b test pjax vs full page reload

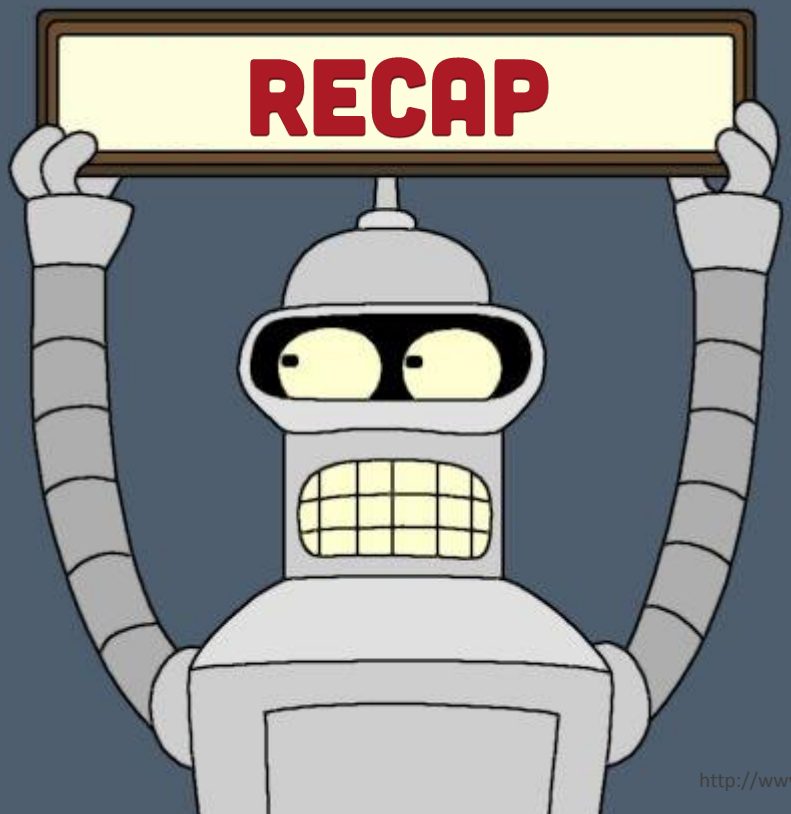
less problems than anticipated

TWITTER.COM
BASECAMP.COM

(other real world implementations)

TURBOLINKS

http://geekmonkey.org/articles/28-introducing-turbolinks-for-rails-4-0



http://www.wandake.com/blog/wp-content/uploads/2011/07/bender.jpg

TWITTER FLIGHT + PJAX

https://github.com/archive/pjax-and-twitter-flight-demo/

THANKS!

QUESTIONS?

W: ANDERS-JONSSON.NET
T: @ANJONSSON
G: GITHUB.COM/ARCHIVE

HEADER IN “CUBANO”

Details in “Yanone Kaffeesatz”