

# The Next Challenge of the Web is Us

Friday, July 25, 2014 6:04 AM

group speakers

Christian Heilmann 9:00 - 10:00 ROOM 1

missionbit.com

↳ New project  
teach kids  
to code.

forwardjs.com/2/  
(second, too 4th)

Wif.: 16647 - 1Mbps

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@codepo8

Echo.js? What's true?

Source code

input node language  
years to run

↳ Yutube.

Alex Feyerke -  
offline first

↳ YouTube

# Wants history API

## Ricky Bobby's World

Friday, July 25, 2014 6:10 AM

Brian Lonsdorf 10:30 - 11:10 ROOM 1

Javascript without  
the this ←  
object

### SuperAgent

Declarative Coding  
(vs. imperative)

### Loop Fusion

Compose(mapey, map(f))  
= map(compose  
g f).

### Shortcut Fusion

↳ fusing folds.

map → sum →  
one iteration

↳ "deforestation"

### Memoization

↳ Future (like  
promise, has tell  
to run), looks  
it up  
"pure"

↳ memcached

## Parallel Code

$$f(f(x,y,z)) = f(x, f(y,z))$$

River trial, web workers

l.f9A3(fn, A1, A2, A3)

"Can run JS in parallel"

Compile while you Compute

**Lazy.js !**

## Refrain (pattern)

### L) Declaration

↳ write once, run everywhere

↳ times hard wins short

Try to write the stuff you want to write.

↳ He will try to patch holes.

↳ As app developer  
(and library, should)

fors are writing  
dedicated higher  
level code.

# Socket.io

Friday, July 25, 2014 6:11 AM

Guillermo Rauch 11:20 - 12:00 ROOM 1

## JS VM

(jsvm.io)

- ↳ "jsvm.Radem"
- ↳ Idea is to  
contain the app  
so people  
can try it in  
the browser
- ↳ Does this make  
sense for me???

[github.com/fjsvm](https://github.com/fjsvm)

- ↳ It is possible to  
communicate with  
"Page"

# JS: Choose your own adventure

Friday, July 25, 2014 6:11 AM

Kyle Simpson 1:30 - 2:10 ROOM 1

githubs. can /getify /esri

" configurable 2-way  
code branching"

script.js

ES7/ES8 macros are  
coming.

JavaScript → has  
fixes to triple  
doesn't like

literalizer

↳ good, but ... why?

"invisible transforms"

↳ checks in transpile,  
checks and goes  
back to your  
way.

- 
- esprima, acorn (parser)
  - escodegen (code generator)
  - escope / escheck (scope  
analyzers)
  - istanbul (code coverage).

- estraverse (analog AST)
- eslint (pluggable code  
linter rules)
- plato / jscomplexity.org  
(complexity)

## Talks

"The future of js language  
tooling" - nijguy

"use restrict"

↳ restrict mode .org

# Enemy of the state

Friday, July 25, 2014 6:12 AM

Amy Palamountain 2:20 - 3:00 ROOM 3

Pam neop - github.

In server, use  
data store for  
states!

Diff between client  
& server,

server trying super  
hard to be  
spontaneous

Client "random"  
wakes up and down  
state.

---

Modules -  
contains states  
and of  
controllers  
by views  
by models

modules views never  
place themselves in  
the application  
shell.

Layout Manager

↳ Application  
Shell

↳ Decides where  
each module  
should be  
provided

~ Marionette ~

Dispatcher

↳ listens for events  
on some prototypes,  
and then creates  
instance and  
hands off to  
Layout Manager  
(i.e. from Router)

"looks new models,  
disposes of old"

Application

Bootstrap, entry,  
exit, composed of  
things.

~ Chapman.js  
has dispatcher.

# Unorthodox Performance

Friday, July 25, 2014 6:12 AM

John-David Dalton 3:30 - 4:10 ROOM 2

@jdalton

jsperf.com?  
github.com/  
lodash / lodash

↳ optimize for  
common calls

Introducing →

factory arguments  
immediately dg's  
factory from browser  
optimization

↳ s, does try/catch

↳ size of function  
~ contains good to ~

abstract!

Interesting:

↳ Native func are not  
always fast!

ES6 - Set, what is it?

Q: How to tell if  
it's native (i.e. not  
Prototypal)?  
(lodash does this)  
i.e. not shimmed.  
Implementation!!!

→ Check for  
fastering.

Interesting - can  
detect if the  
is used by doing  
toString or to  
and check.

Interesting - lodash  
does curry/bind  
by using fast  
metadata!!!

# React and Flux: Building applications with a unidirectional data flow

Friday, July 25, 2014 6:14 AM

Bill Fisher and Jing Chen 4:20 - 5:00 Room 1

speakeader.com/  
fisherwebdev/  
fluxdev.

flux open sourced!!  
github.com/flux  
minimalkit.com/flux

flux  
"Any anything has  
Changed"  
vs. update

"Simple mental  
model"

Stores

↳ all state for  
a logical  
domain.

## + Application logic

dispatcher is just  
sub system

dispatcher, action  
store handles action  
getters, no setters!

beps: consist of  
events that you  
put in store if you  
did not  
force it

## Controller-Views

React component.  
Listen to changes.  
Call store things  
interested in and  
render

Action creates methods.

Example of creating actions?

↳ are they global actions?

Dispatcher

has methods  
worker in case

there are dependencies  
in futures.

↳ sequential updates

↳ hierarchy of stores

Look up

Dataflow programming

CQRS → command query

Reactive

MVC

response  
segregation

functional & FRP

Futures

flux bisyncd  
cli tabs

Needs: UI.jsQ

2 actors

~ Look at sliders

~ ...

~ Look at sliders  
for lines

# Unidirectional Javascript

Friday, July 25, 2014 6:15 AM

Jake Verbaten 5:10 - 5:50 ROOM 1

(with #mercury)

@Raynos

Tried Elm, amazing  
but in Haskell.

Nested unidirectional  
App

Cursor / lens

(look at one)

↳ Telling big state,  
add some key  
path, embed  
a substate.

"local state"

G. How does React  
deal with nested  
modules??

G. How does React deal with nested modules??

Intercalary Rd:  
uni-directional  
immutability.

"Reason about some  
of truths"

Can do this with  
our stuff?

More strict about  
immutability.