

# REBUILDING THE MONOLITH WITH COMPOSABLE APPS

Front-end Developer

Startup Web Development

Startup Recruiting

+6



## Why are front end developers so high in demand at startups if front end development is relatively easier than other fields of engineering?

I am making an assumption here, but I think most people would agree that front end development is much easier than other fields of engineering. So why is it that startups have trouble finding front end developers?

 Answer

Request ▼

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Downvote



THE #1 PROGRAMMER EXCUSE  
FOR LEGITIMATELY SLACKING OFF:

~~"MY CODE'S COMPILING."~~

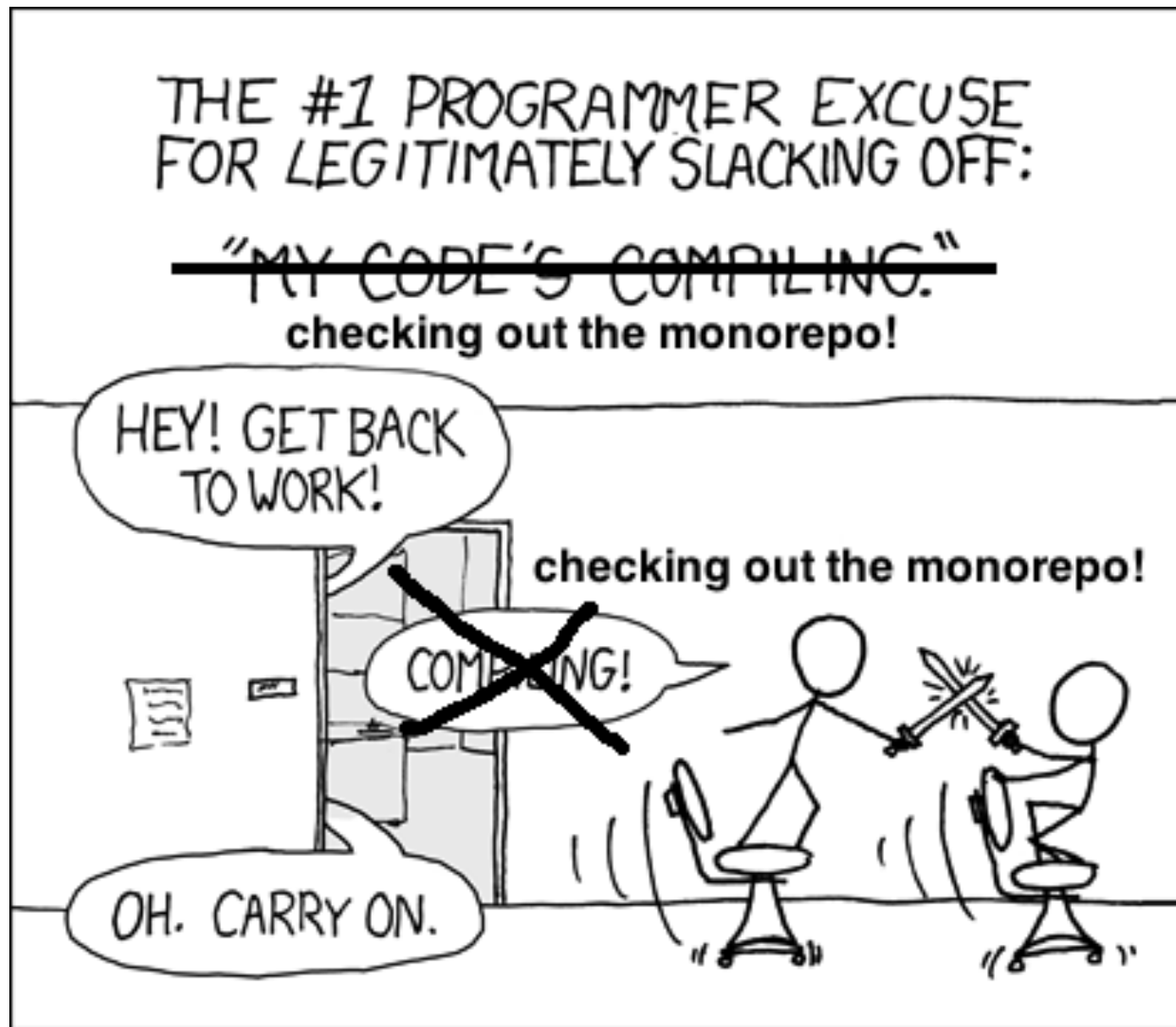
checking out the monorepo!

HEY! GET BACK  
TO WORK!

checking out the monorepo!

~~COMPILING!~~

OH. CARRY ON.



2013

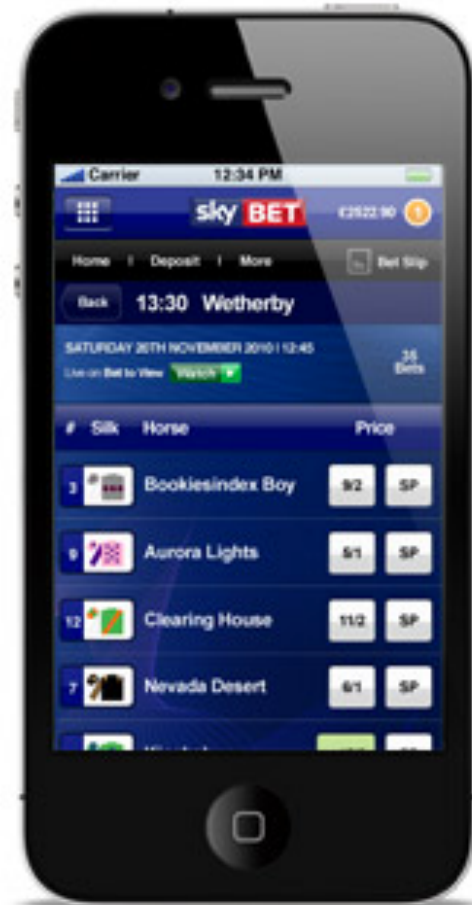


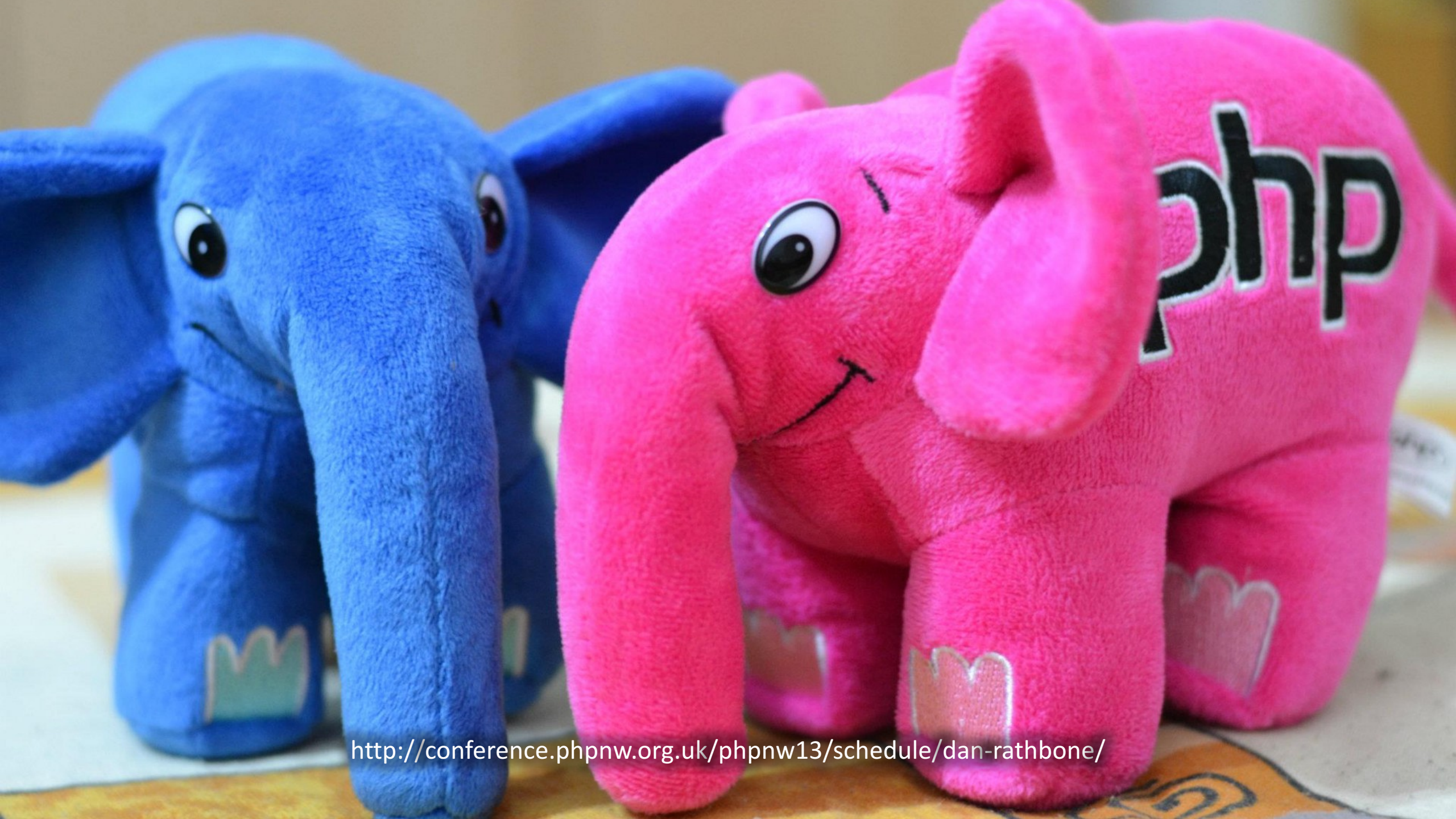












<http://conference.phpnw.org.uk/phpnw13/schedule/dan-rathbone/>



JavaScript™



1 My Bet Slip >

Football

Featured Live Coupons Competitions S



VILLARREAL V LIVERPOOL

Firmino to score & win - 5/2



Go to Cash Out

Football Live >>

60' Ural Sverdlovsk Oblast Reserves vs CSKA Moscow Reserves 2-4

Win 125/1 Draw 28/1 Win 1/66

HT UP Fighting Maroons vs UST Growling Tigers 2-0

Win 1/33 Draw 16/1 Win 66/1

27' Binh Thuan FC vs Cong An Nhan Dan 0-1

Win 11/4 Draw 9/4 Win 10/11

19' Szombathelyi Haladas FC U19 vs Grosics Akademia Gyula U19 2-0

sky BET Join Log in

1 My Bet Slip >

## Football

Featured Live Coupons Competitions S

**VILLARREAL V LIVERPOOL** >  
Firmino to score & win - 5/2

Go to Cash Out

Football Live

60'	Ural Sverdlovsk Oblast Reserves vs CSKA Moscow Reserves	2-4
	Win 125/1	Draw 28/1
	Win 1/66	
HT	UP Fighting Maroons vs UST Growing Tigers	2-0
	Win 1/33	Draw 16/1
	Win 66/1	
27'	Binh Thuan FC vs Cong An Nhan Dan	0-1
	Win 11/4	Draw 9/4
	Win 10/11	
19'	Szombathelyi Haladas FC U19 vs Grosics Akademia Gyula U19	2-0

XHR

```

body": "<div id=\"js-inner-content\"
class=\"body_content\">\n\n
Id=\"menu\" class=\"responsive-nav
menu_content\"><nav class=\"menu\">\n
<ul class=\"menu_secondary\">\n
<li class=\"menu_item\">\n
data-analytics=\"[A-Z Quick Links] Home\">\n
draggable=\"false\">\n
href=\"\">\n
class=\"menu_link \">\n
<span class=\"split_title\">\n
<i class=\"i i--natural icon-text__icon\" data-
char=\"&#xF001;\"></i>\n
Home </span>\n
</a>\n
</li>\n
<li class=\"menu_item\">\n
data-analytics=\"[A-Z Quick Links]
Promotions\">\n
draggable=\"false\">\n
href=\"\">\n
class=\"menu_link \">\n
<span class=\"split_title\">\n
<i class=\"i i--natural icon-text__icon\" data-
char=\"&#xF0D2;\"></i>\n
Promotions </span>\n
</a>\n
</li>\n
<li class=\"menu_item\">\n
data-analytics=\"[A-Z Quick Links] Cash Out\">\n
draggable=\"false\">\n
href=\"\">\n
class=\"menu_link \">\n
<span class=\"split_title\">\n
<i class=\"i i--natural icon-text__icon\" data-
char=\"&#xF210;\"></i>\n
My Bets </span>\n
</a>\n
</li>\n
<li class=\"menu_item\">\n
data-analytics=\"[A-Z Quick Links] Bet &
Watch\">\n
draggable=\"false\">\n
href=\"\">\n
class=\"menu_link \">\n
<span class=\"split_title\">\n
<i class=\"i i--natural icon-text__icon\" data-
char=\"&#xF04A;\"></i>\n

```



1 My Bet Slip



Ural Sverdlovsk Oblast Reserves v CSKA Moscow Reserves

60:41

URA	2	4	CSK
-----	---	---	-----

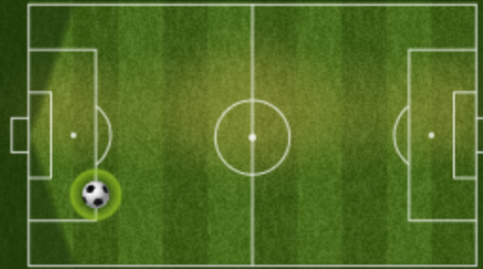
1

Pitch view

Stats

Game info

CSK: Dangerous Attack



Go to Cash Out

Full Time Result

Win 125/1

Draw 28/1

Win 1/66

Next Team To Score - 7th

2014





# Bet Tracker

Exclusive Feature Preview (find out more)

1 of 1 in play bets winning £14.00

In Play Up Coming Settled

Single 9/5 £5.00  
Potential returns: £14.00

## In play

🕒 England 9/5  
Full Time Result - Switzerland v England

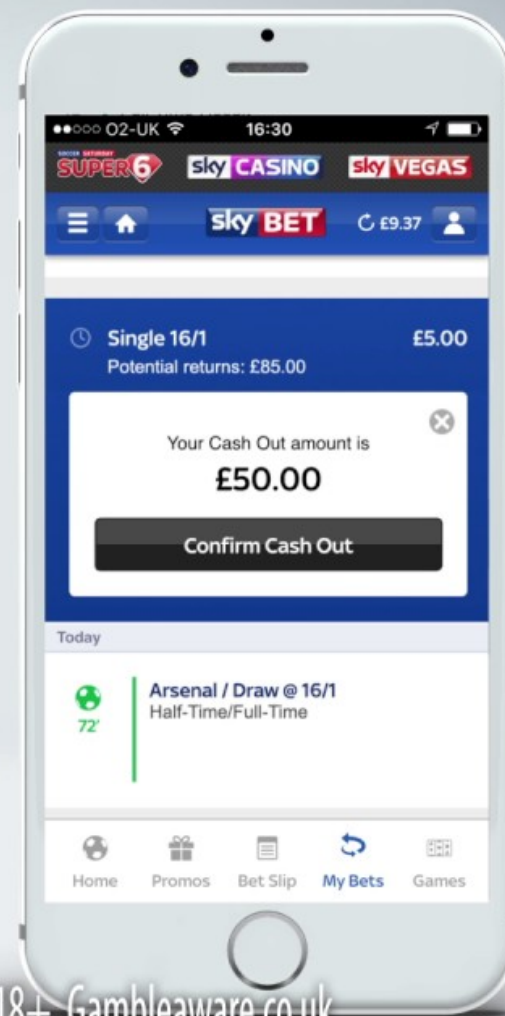
Switzerland 0 - 1 England  
home away

*i* Bet Details

📢 Leave us feedback



# PLACE A QUALIFYING CASH OUT BET



Max stake restrictions, eligibility restrictions, and T&Cs apply. 18+. [Gambleaware.co.uk](http://Gambleaware.co.uk)



**i** Sky bet is currently unavailable as we are experiencing technical problems.

Find out more

[Privacy](#) | [Terms](#) | [Help ?](#)



Committed to **Responsible Gambling**  
Licensed and regulated by the **AGCC**

© B SkyB 2013



Home



Promotions



Bet Slip



Join



Log in

# WHY DO WE CARE SO MUCH ABOUT MOBILE?

Because it makes up a huge proportion of our traffic, of which there is lots...

Since 7 days ago

Page Views

25.5 M Mobile Bet (live)



Category	Page Views
Mobile Bet (live)	25.5 M
Desktop Bet (live)	6.94 M

6.94 M Desktop Bet (live)

Since 01 Feb 00:00 GMT until 28 Feb 23:59 GMT

**103 M**

Page Views

analytics.google.com

Overview - Google... Online Sports Betti... rx websockets/ws: 'w... Reactive-Extension... RxJS/from.md at m... rx-node/nodejs.md... Grand National 201...

Google Analytics Home Reporting Customization Admin

ian.thomas@bskyb.com  
http://www.skybet.com - http://www.sk...  
Sky Bet [SSL]

Search reports & help

Intelligence Events

Real-Time

Overview

Locations

Traffic Sources

Content

Events

Conversions

Audience

Overview

Active Users

Cohort Analysis BETA

Demographics

Interests

Geo

Behavior

Technology

Mobile

Overview

Devices

Custom

Benchmarking

Users Flow

Acquisition

Overview

All Traffic

Channels

Treemaps

## Overview

Right now  
**173436**  
active users on site

MOBILE 88% TABLET 7% DESKTOP 5%

### Pageviews

Per minute

Per second

### Top Referrals:

Source	Active Users
1. paypal.com	1,573
2. sportinglife.com	1,051
3. skysports.com	909
4. zitaair.club	615
5. skyvegas.com	351

### Top Social Traffic:

Source	Active Users
1. Twitter	4
2. Facebook	1

### Top Keywords:

Keyword	Active Users
1. (not provided)	7,019
2. sky bet	460
3. skybet	209
4. https://m.skybet.com/	25
5. sky bet login	22
6. Skybet	10
7. sky bet mobile	9
8. super 6	6
9. www.skybet.com	6
10. skybet mobile	5

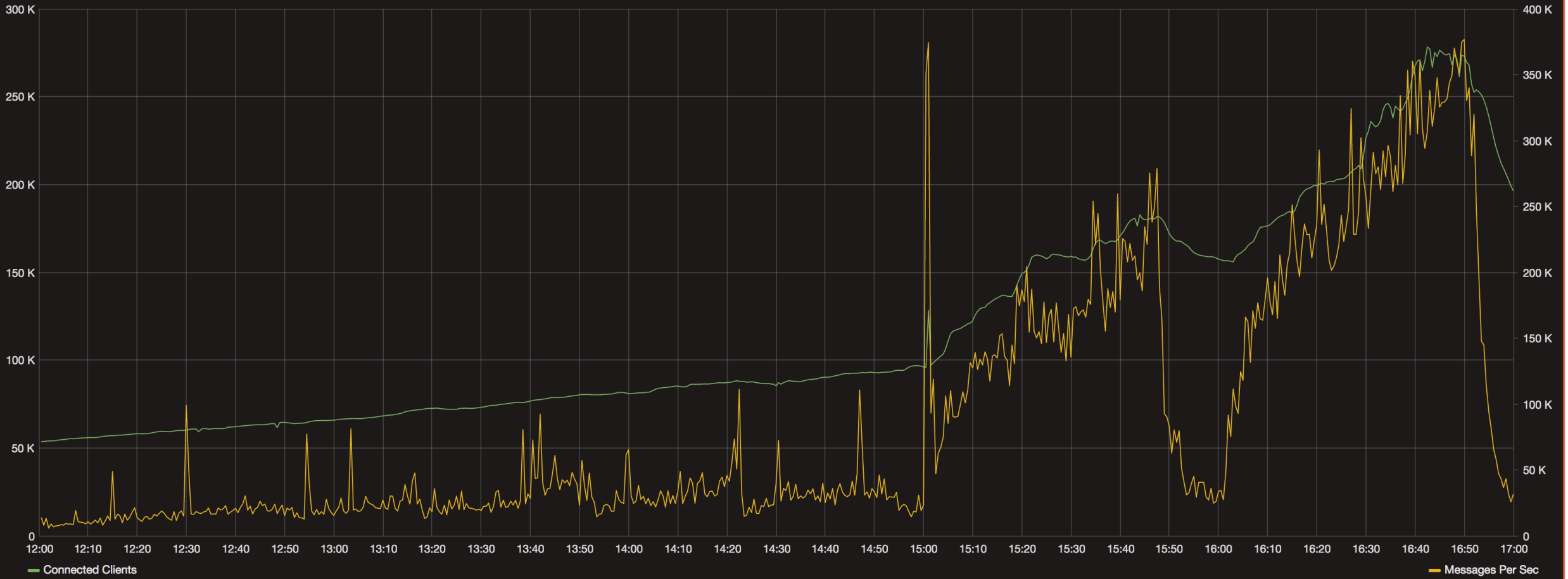
### Top Active Pages:

Active Page	Active Users	%
1. /horse-racing/aintree/event/19140555	43,721	25.21%
2. /bet-tracker	27,780	16.02%
3. /?app=ios&location=(null),(null)&version=5.6	19,494	11.24%
4. /	16,893	9.74%
5. /betslip/get	13,539	7.81%
6. /watch	6,567	3.79%
7. /bet-tracker?dcmp=BetHistoryCashTracker	6,565	3.79%
8. /horse-racing/aintree/event/19140555/time	5,754	3.32%
9. /watch?app=ios&location=(null),(null)&version=5.6	4,540	2.62%
10. /?app=android&version=1.2	4,072	2.35%

### Top Locations:

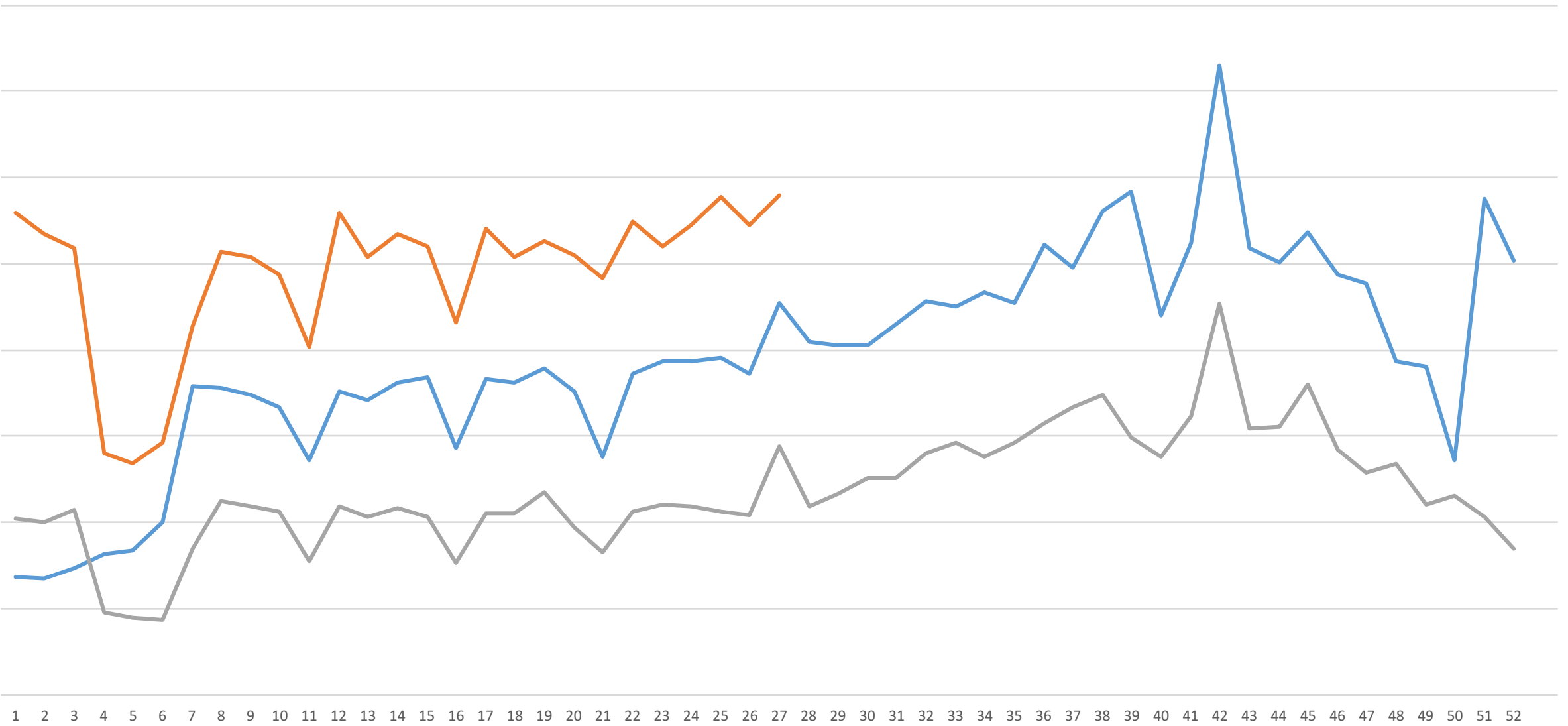


### Push Connected Clients

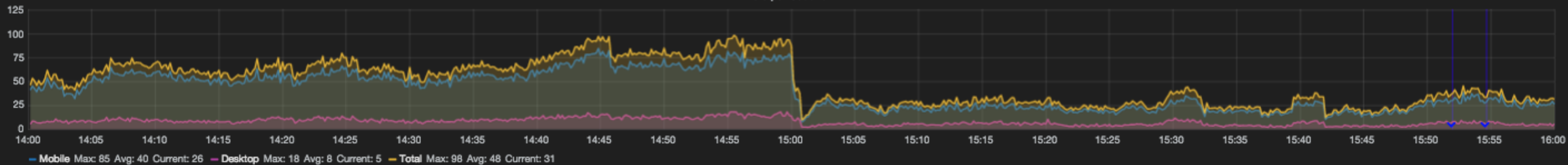


**MOBILE IS GROWING AT A SCARY RATE TOO...**

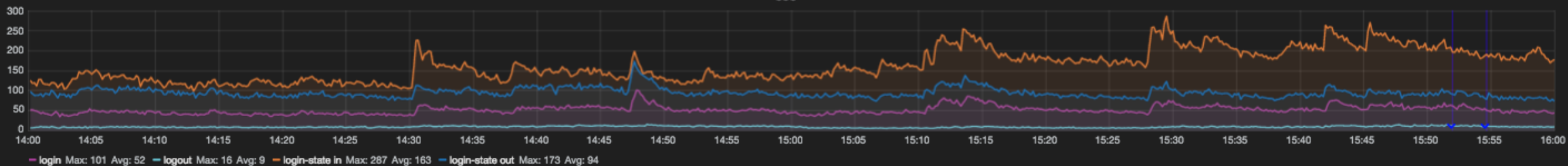
Weekly Uniques on Mobile



### Bets per Second



### SSO



### View Worker Queue Size



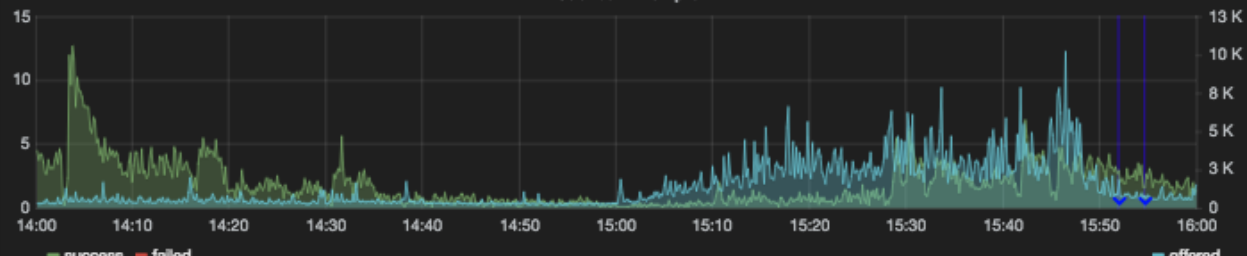
### View Workers Mean Lifetime

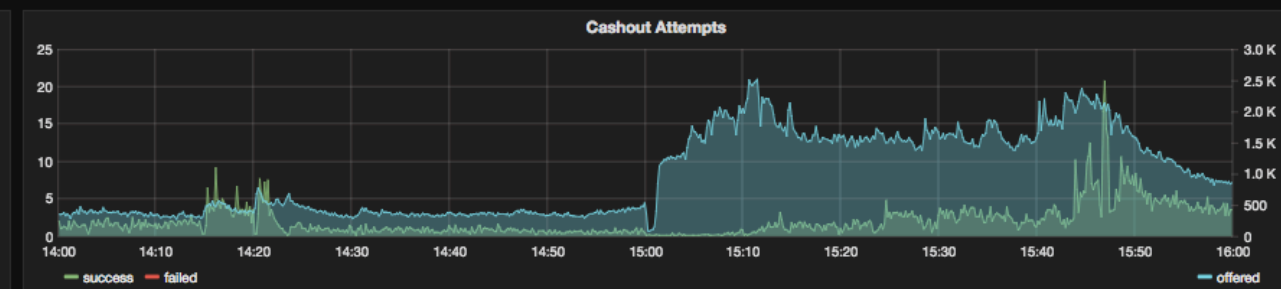
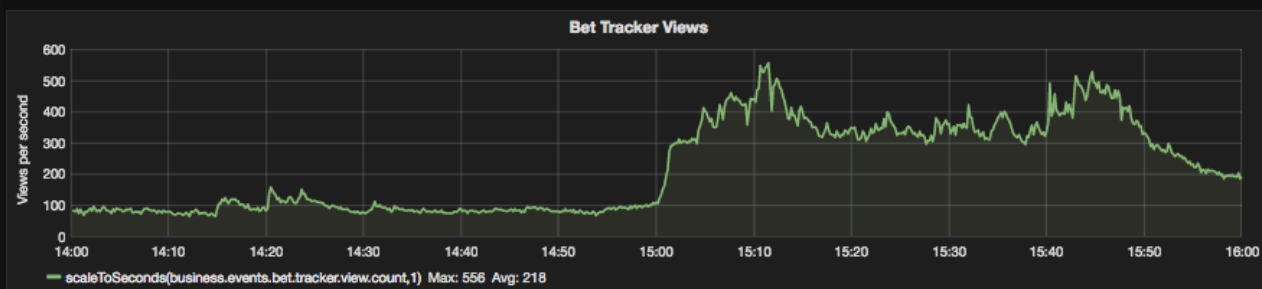
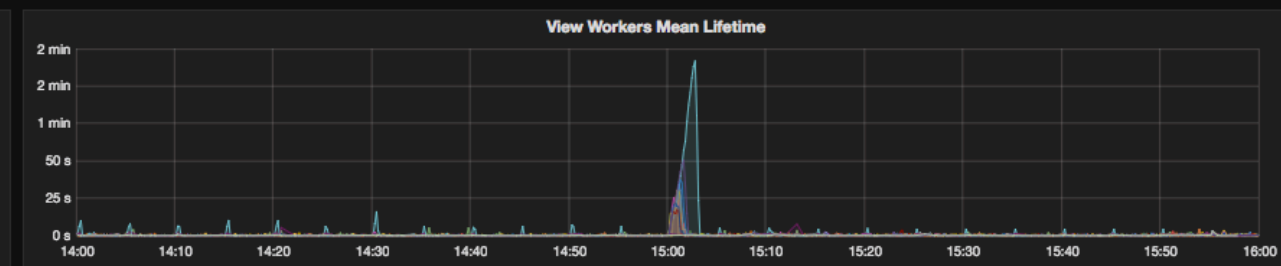
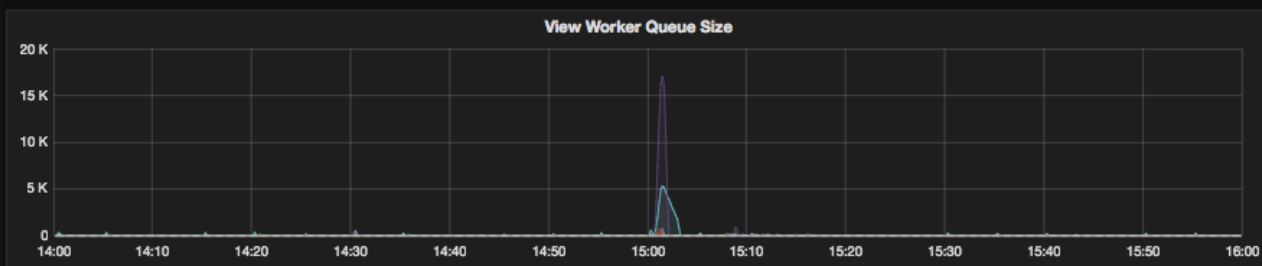
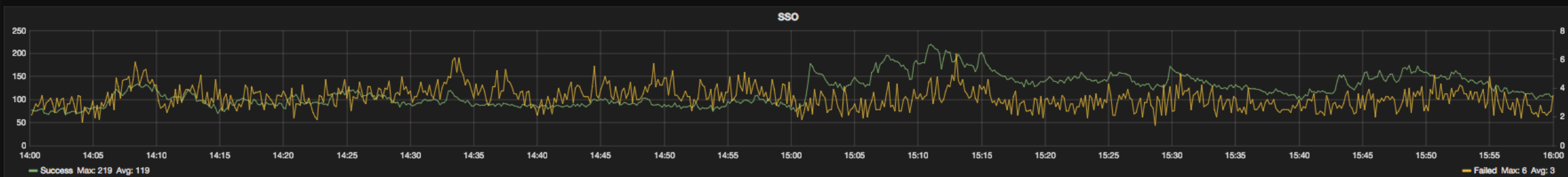
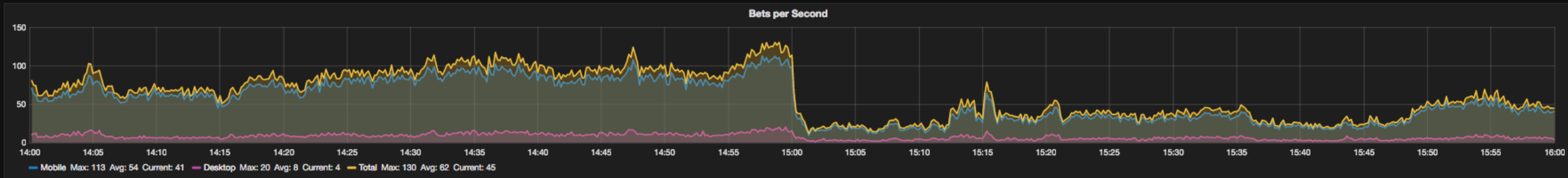


### Bet Tracker Views



### Cashout Attempts





# BACK TO THE TECH

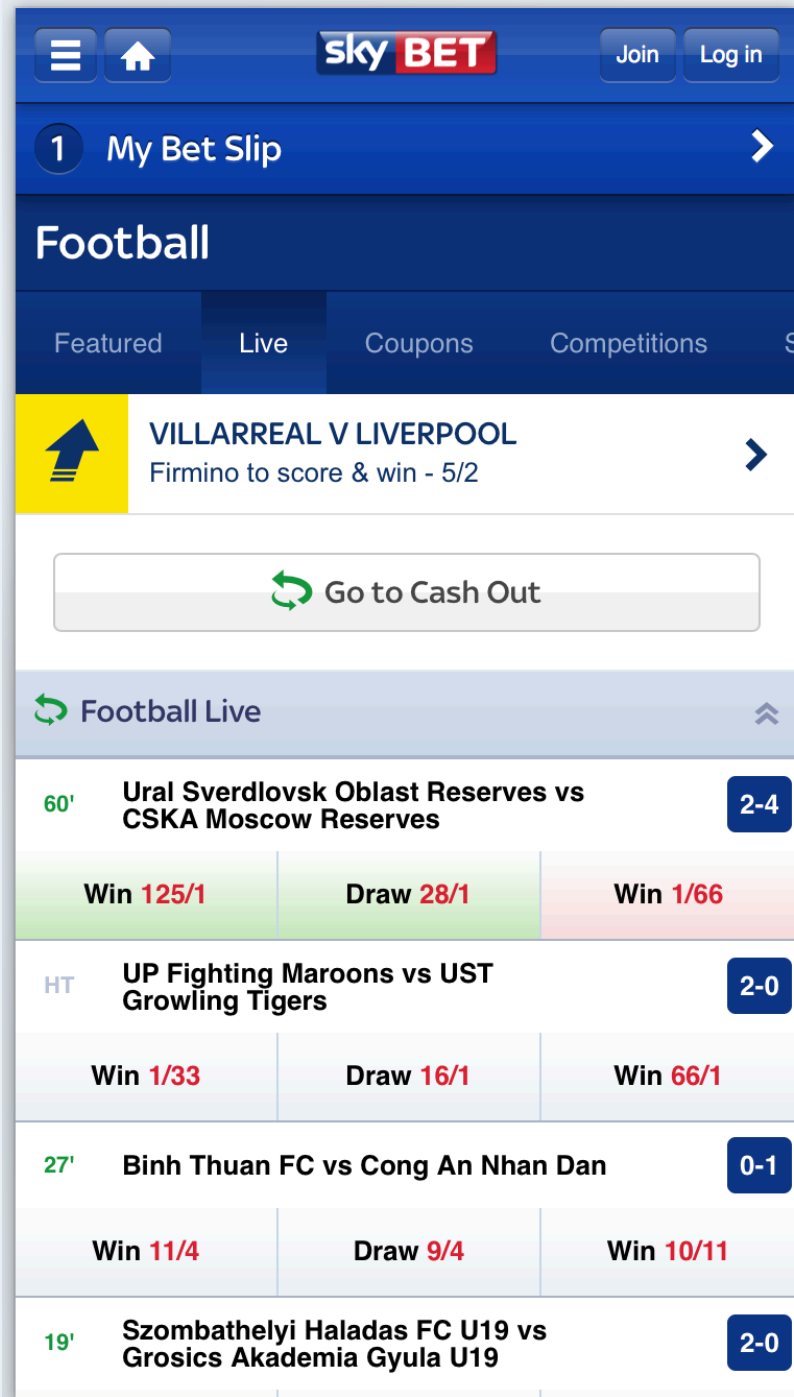
What are the challenges we were facing?

Create a more engaging customer experience  
Increase the resilience of our core features  
Scale our product  
Scale our teams

Nothing rendered by JavaScript

State stored in data attributes in the DOM

Increasingly real-time and interactive product demands



No knowledge of routing in client

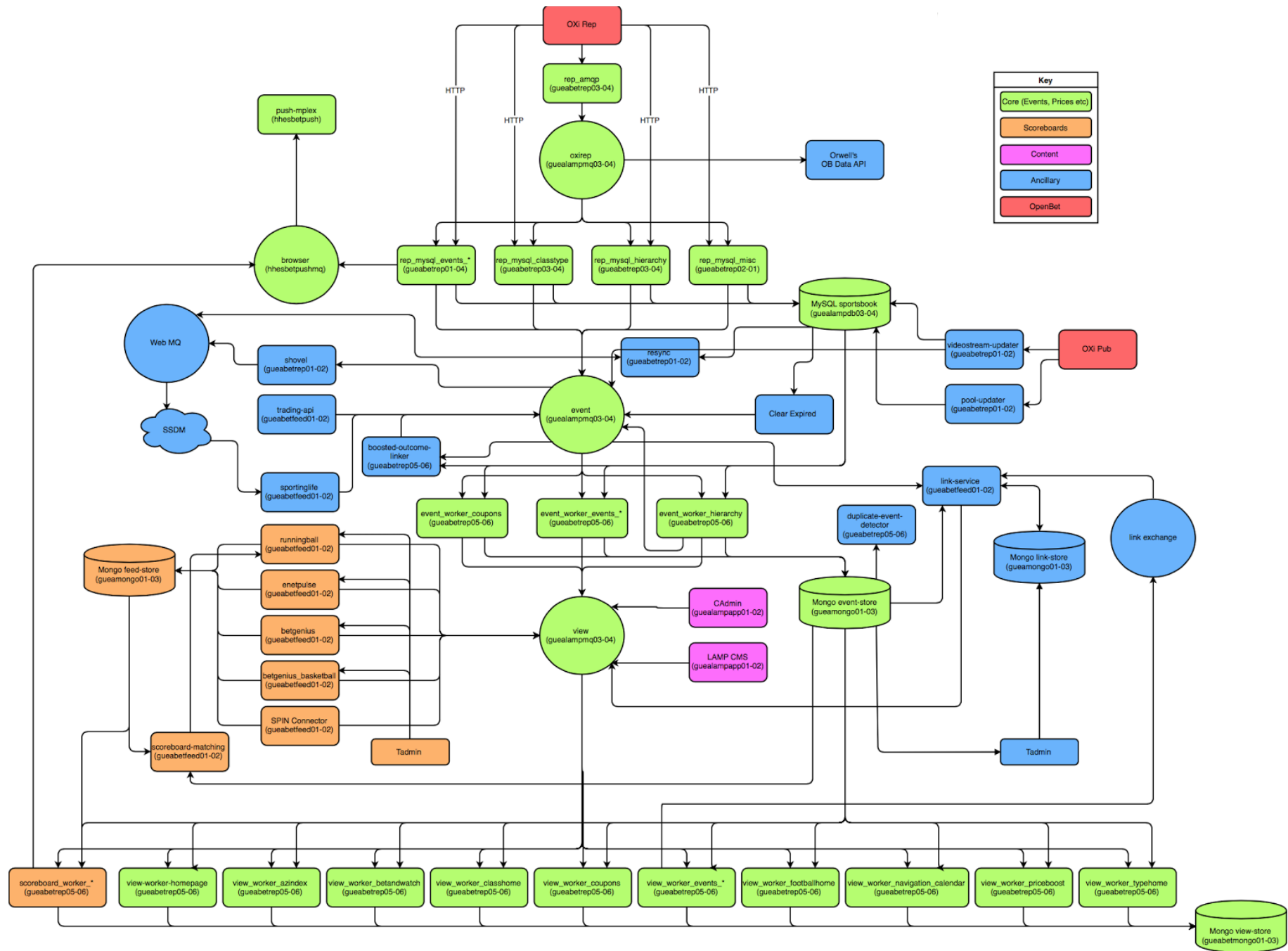
Spaghetti OO style  
JavaScript reliant on directly bound event listeners



```
Receipt.prototype.init = function() {
  bindEvents.call(this);
  var el = Ess('#receipt-data');
  if (el) {
    this.cashStakes = parseMoneyStringToNumber(el.getAttribute('data-cashstakes'));
    this.freeStakes = parseMoneyStringToNumber(el.getAttribute('data-freestakes'));
    this.betCount = parseFloat(el.getAttribute('data-betcount'));
    this.notifications = JSON.parse(el.getAttribute('data-notifications'));
    this.bets = getBetsFromDOM(Ess('.bet-slip-receipt__bet'));
    this.returns = this.bets.reduce(function(t,b) { return t + b.returns;}, 0);
    this.emit('receipt', {
      cashStakes:    this.cashStakes,
      freeStakes:    this.freeStakes,
      betCount:      this.betCount,
      returns:       this.returns,
      notifications: this.notifications,
      bets:          this.bets
    });

    if (Ess('#recommended-bets', this.element)) {
      this.emit('recommendedBetsSeen');
    }
  }
};
```

```
this.betslip.on('receipt', function(data) {  
  var numberOfSingles = 0,  
      numberOfAccumulators = 0;  
  data.bets.forEach(function(bet) {  
    if (bet.selections.length > 1) {  
      numberOfAccumulators++;  
    } else {  
      numberOfSingles++;  
    }  
  });  
  var products = {  
    betsPlaced: null, //@todo: what's the point of this then?  
    numberOfSingleBets: numberOfSingles,  
    numberOfAccumulatorBets: numberOfAccumulators,  
    betCashStakes: data.cashStakes,  
    betFreeStakes: data.freeStakes,  
    betCount: data.betCount,  
  };  
};
```



Key	
Core (Events, Prices etc)	Green
Scoreboards	Orange
Content	Pink
Ancillary	Blue
OpenBet	Red



“From a people and culture point of view, we’re very focused on maintaining the things that made Sky Bet great as we scale up the internal team – we doubled the number of employees last year.”

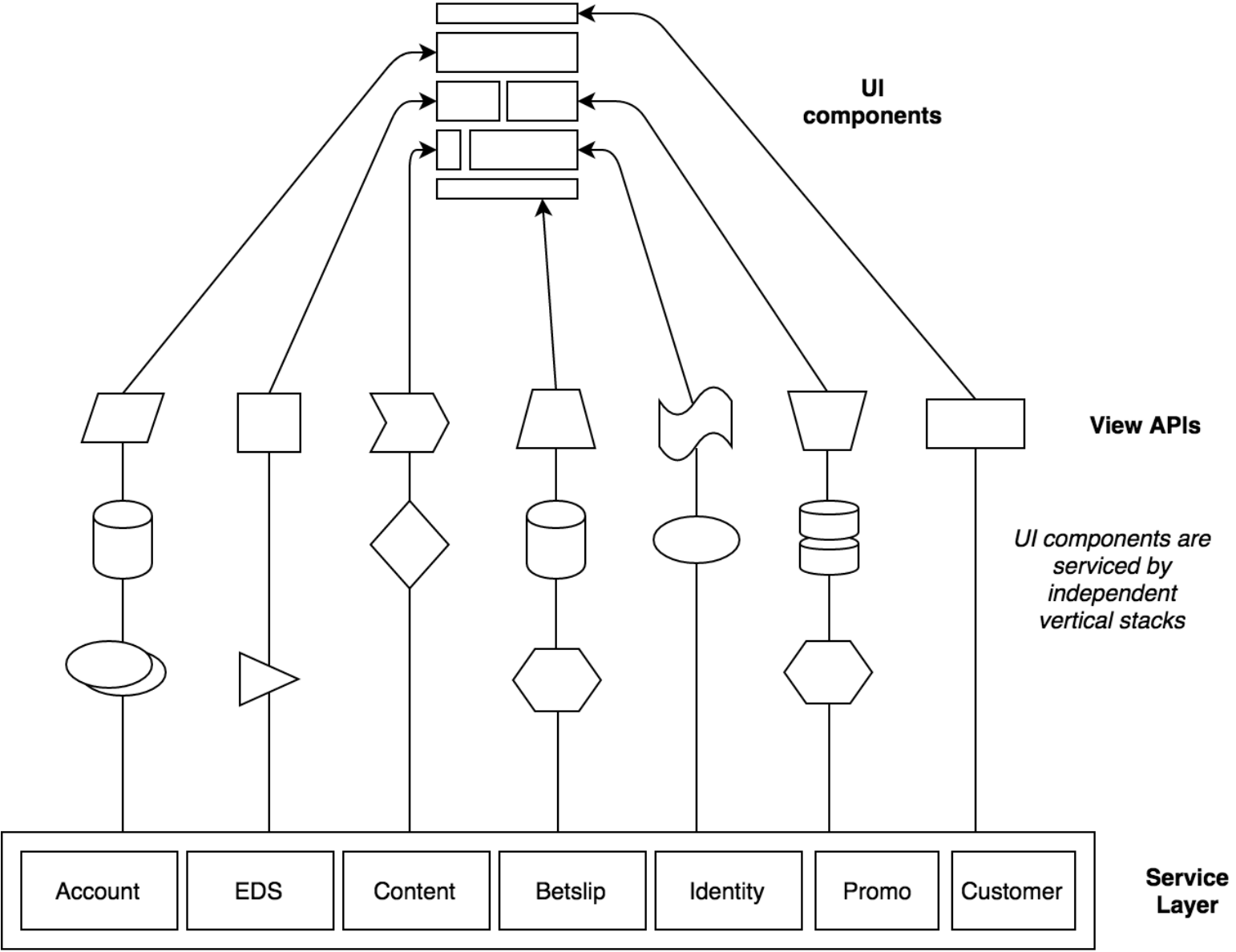
<http://www.silicon.co.uk/cloud/it-life-andy-burton-cto-sky-bet-197113>

**WHOLLY OWNED, VERTICAL SLICES**

“Favor object composition over class inheritance...

...You should be able to get all the functionality you need just by assembling existing components through object composition.”

Gamma et al, 1994



*Services in the Service Layer are authoritative sources of data*

*Common business logic resides in one place*

*Services adhere to the Service Blueprint*



# CHOOSING THE TECH STACK



React

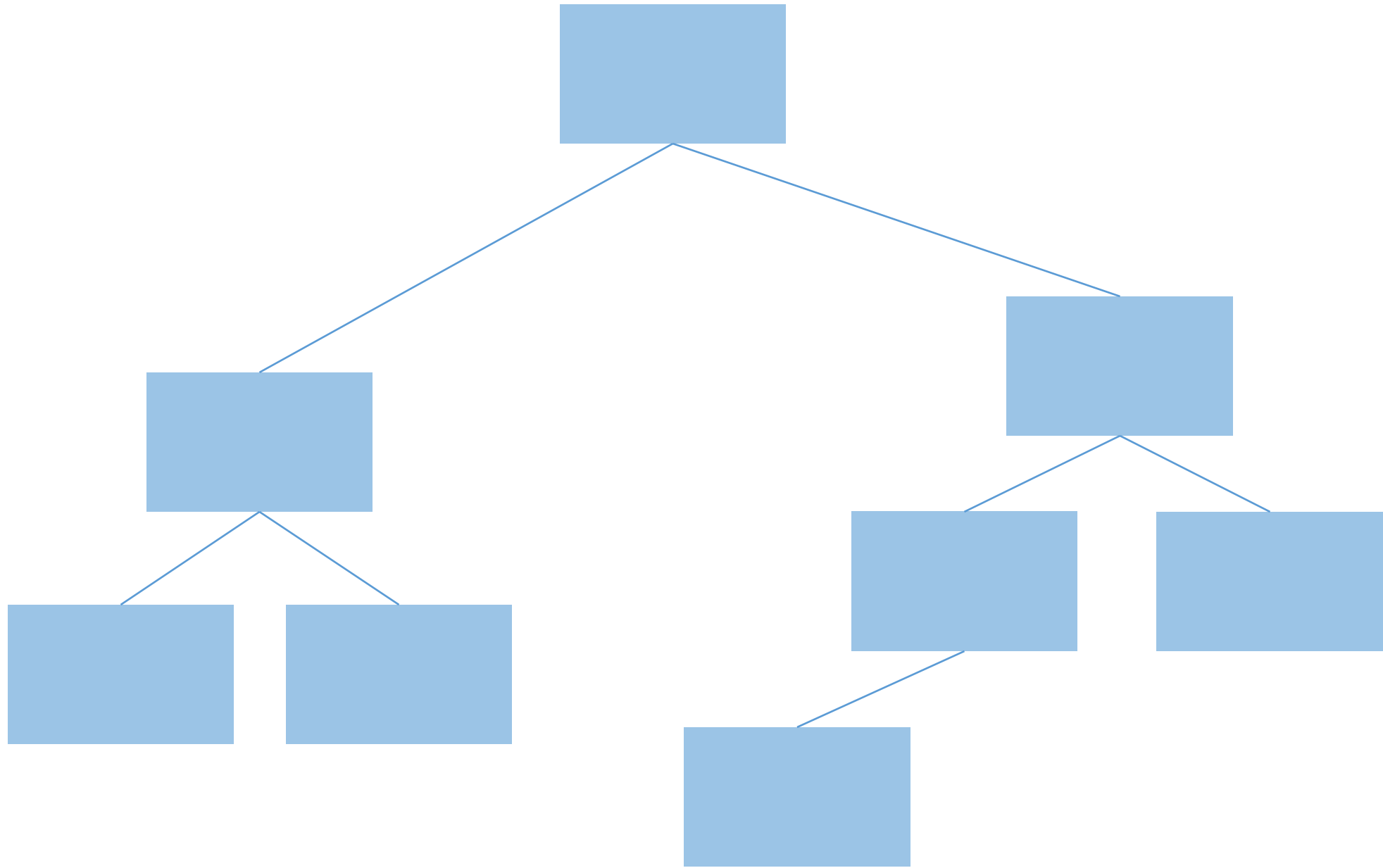


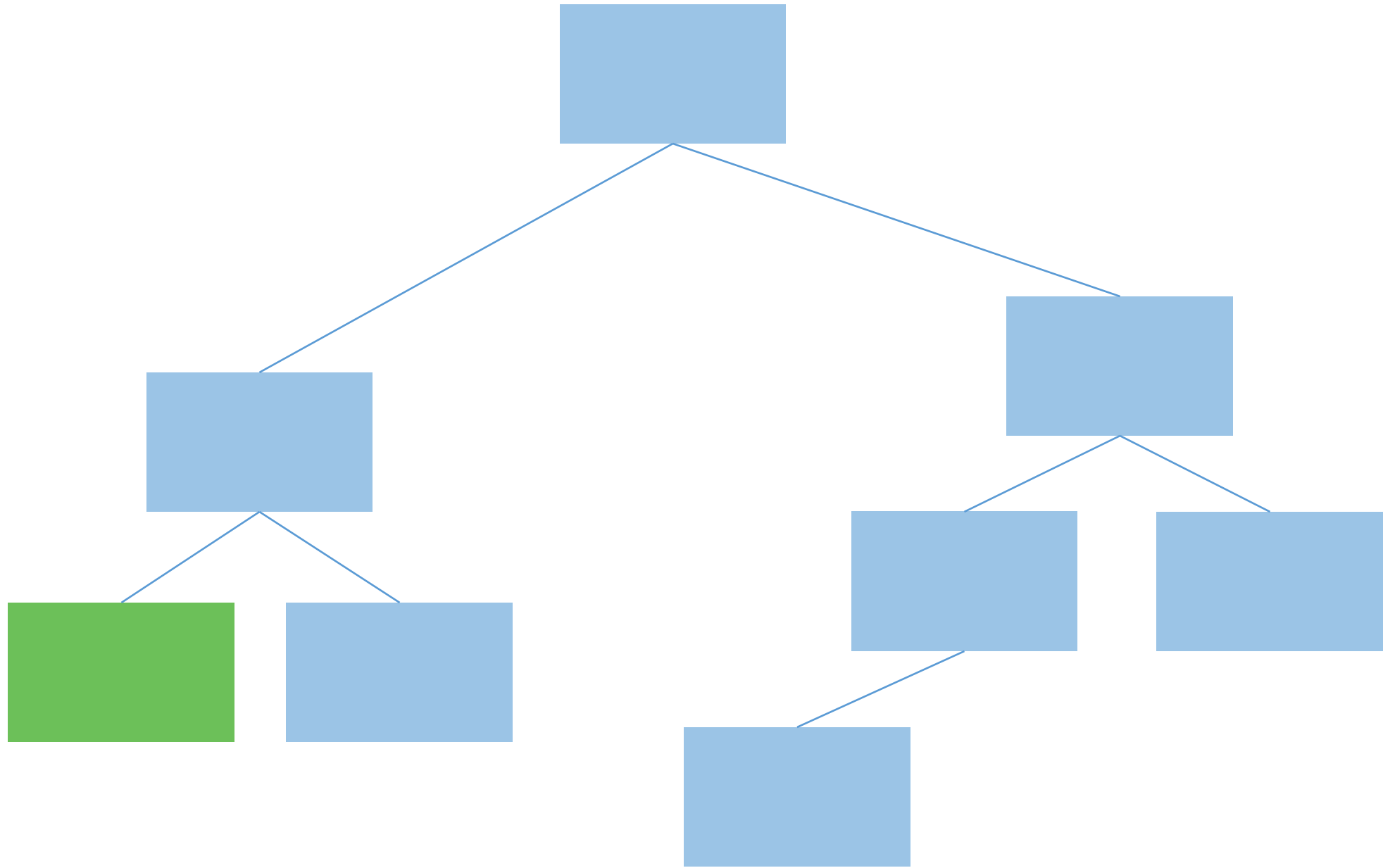
Redux

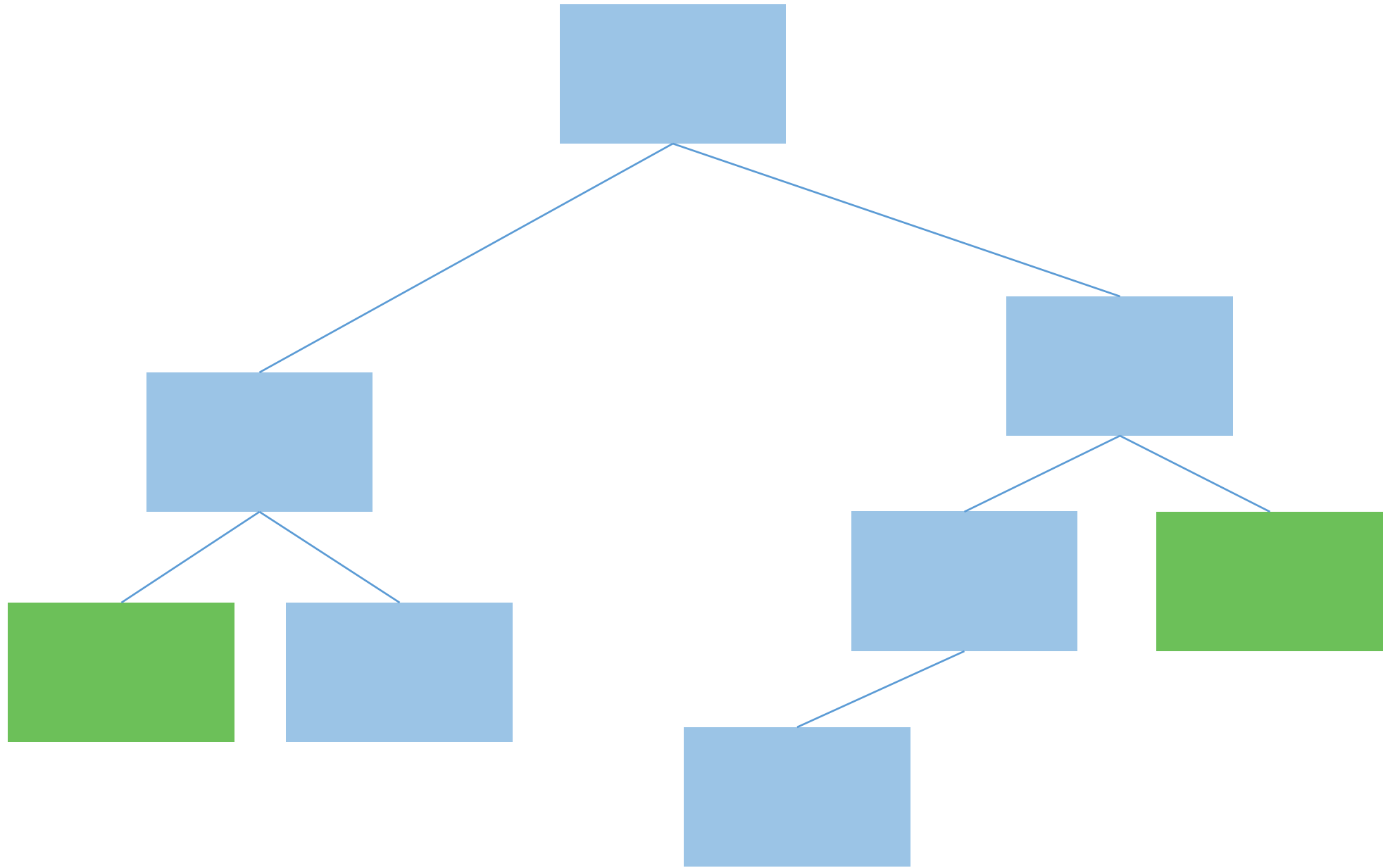


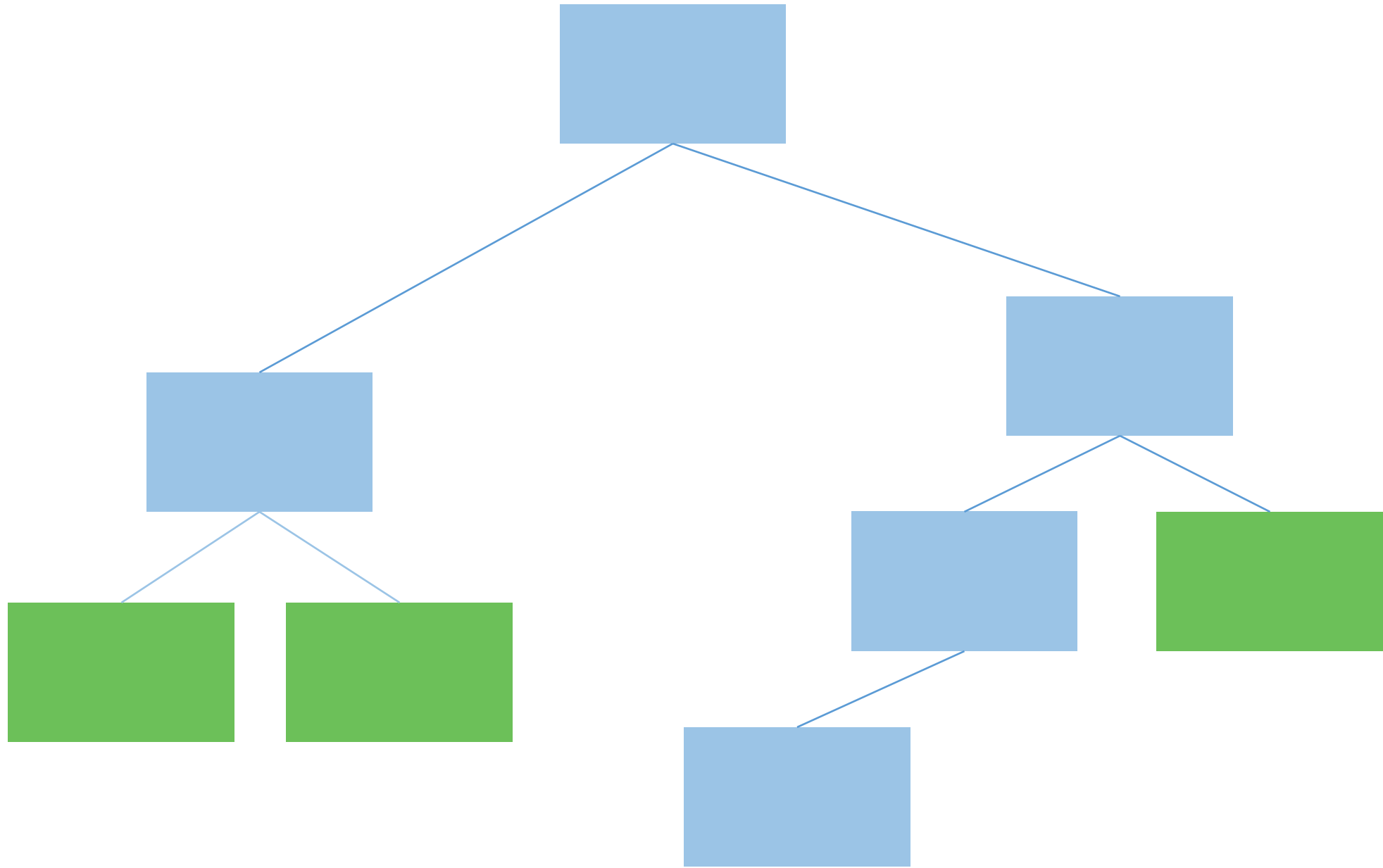
**“Don’t Rewrite, React”**

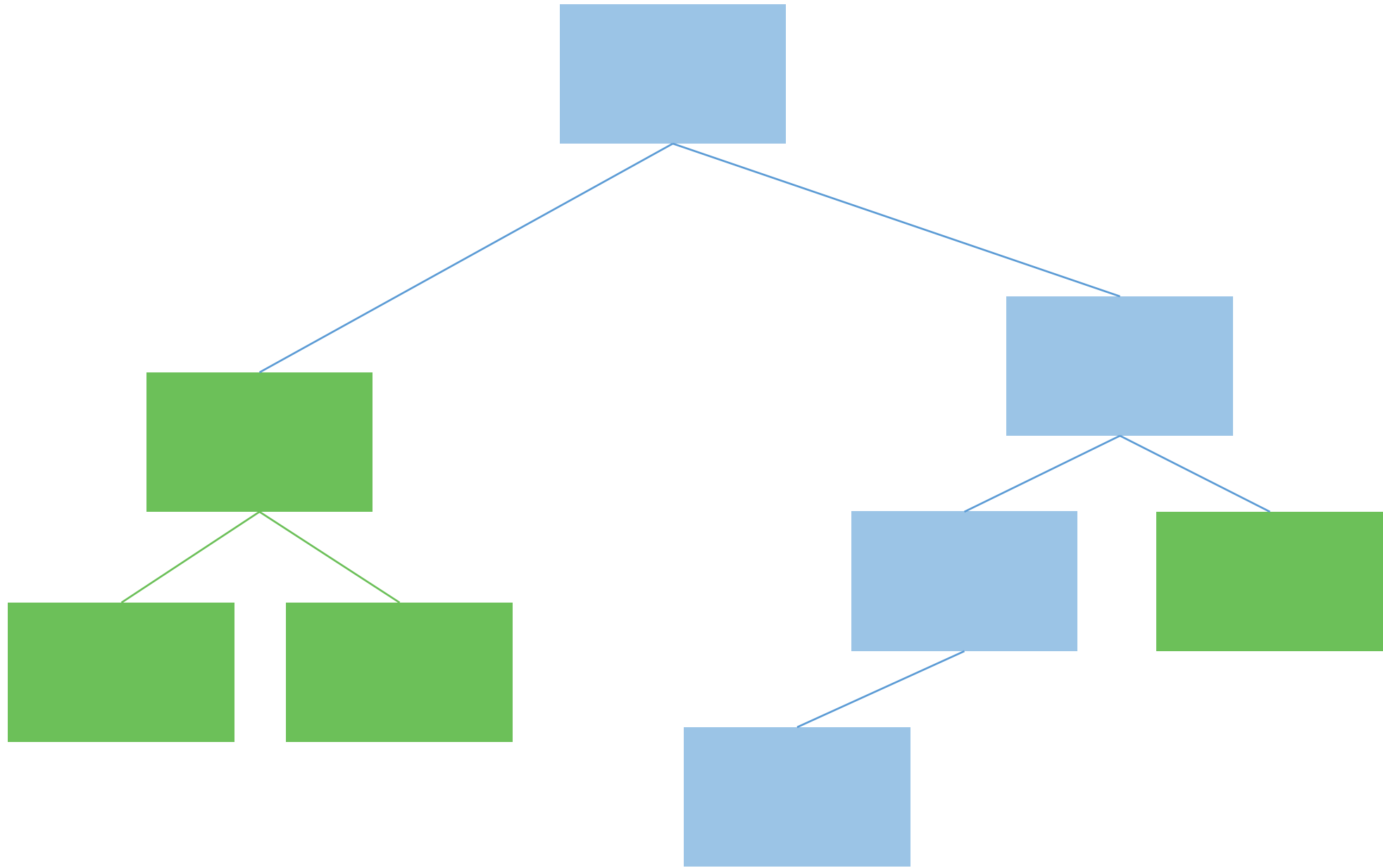
Ryan Florence, React Europe 2015







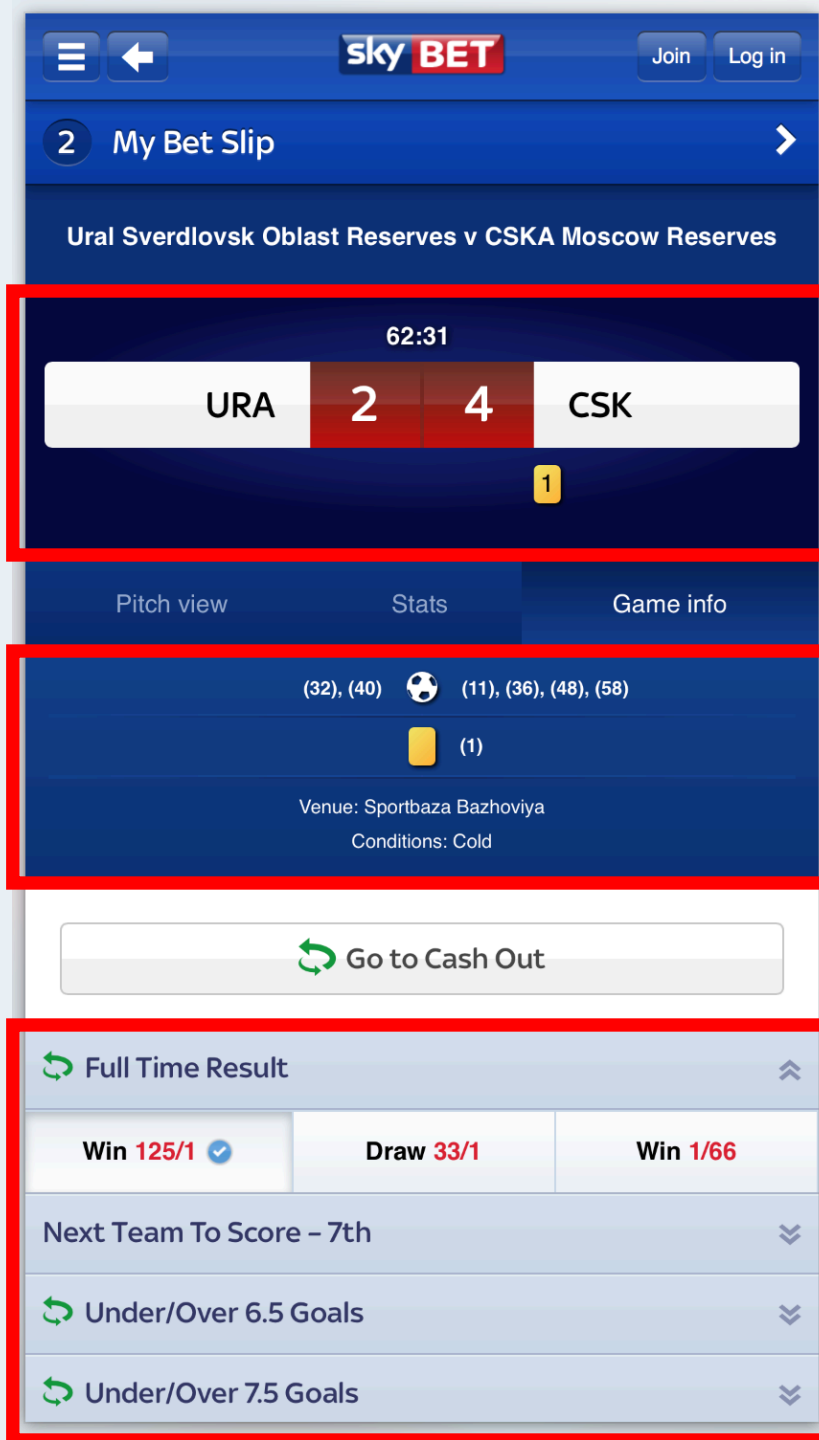




IN PRACTICE IT'S NEVER THAT SIMPLE



Independent components  
may share data requirements

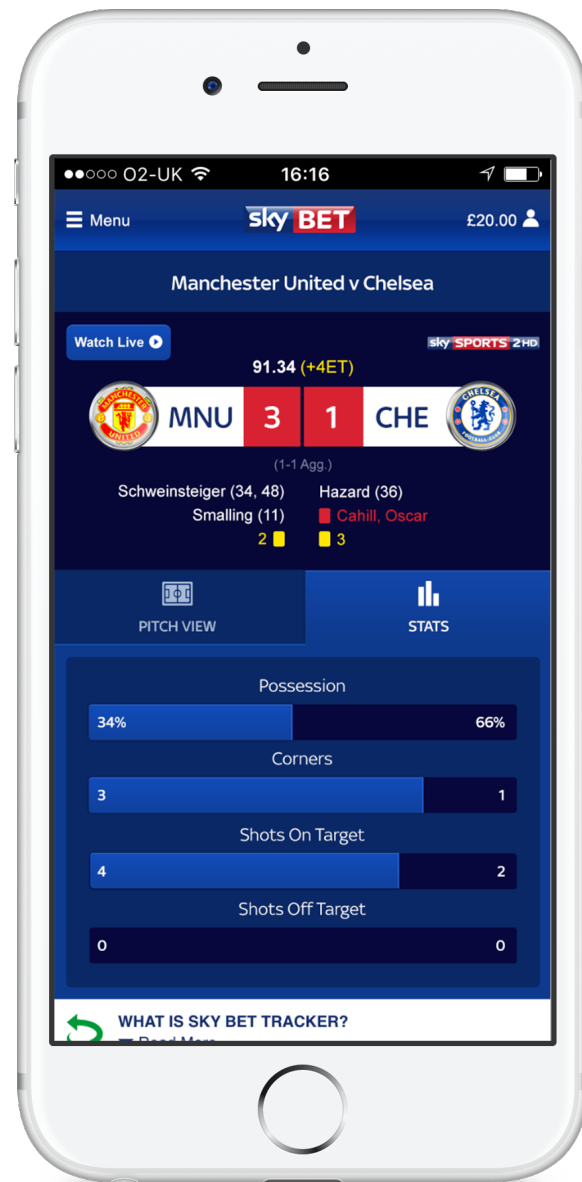
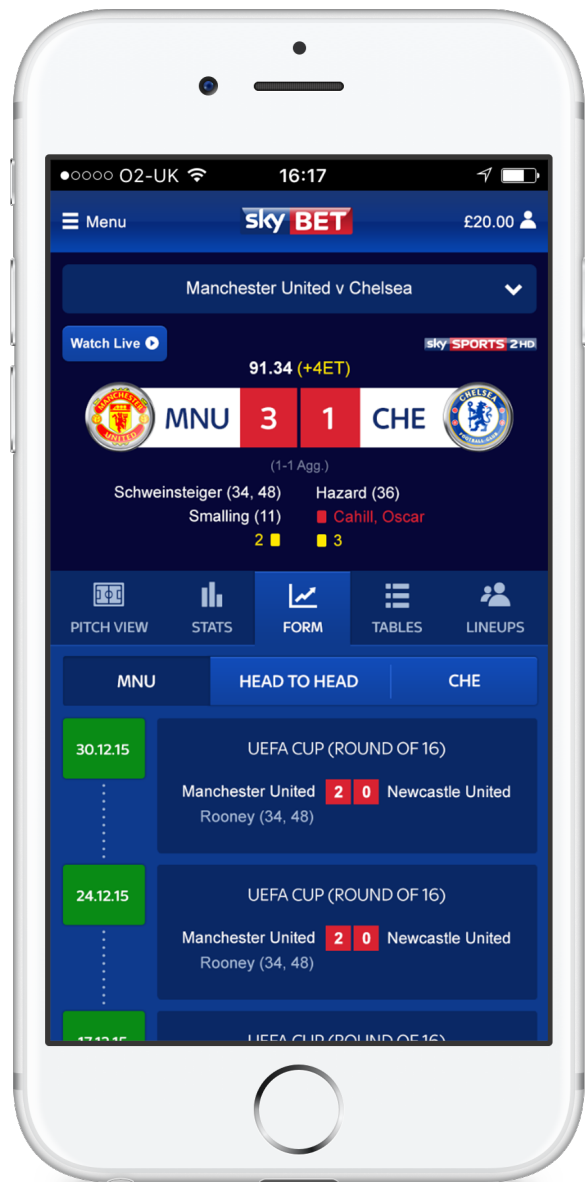


Apps may share code  
dependencies (i.e. Ramda)

Real-time updates need to  
happen simultaneously to  
ensure consistent experience

How do we instantiate these  
things?

IT GETS HARDER AS THE PRODUCT REQUIREMENTS  
GROW MORE DETAILED



# WORKING WITH COMPONENTS

# Bayern Munich v Arsenal

Champions League

Wednesday 15th February 2017 19:45



In-Play betting will be available



**PUNDITS' PREDICTIONS**  
 Charlie Nicholas is tipping Lewandowski to score first and Bayern to win 2-1

[Read more](#)

Show me:

Goals

## Total Goals, Corners Taken & Booking Pts

Yellow = 10, Red = 25, 2 Yellow & 1 Red With Dismissal = 35

Over 1.5 Goals, Over 8.5 Corners And Over 25 Bookings Points	5/6
Over 2.5 Goals, Over 10.5 Corners And Over 35 Bookings Points	7/2
Over 3.5 Goals, Over 12.5 Corners And Over 45 Bookings Points	16/1

Under/Over 2.5 Goals

Show me:

- ✓ All Markets
- RequestABet™ Markets
- Cash Out Markets
- Goals Markets
- Player Markets
- Team Markets
- Corners Markets
- Cards Markets
- Half & Minutes Markets

Ahmed Musa to score the 2nd goal	<del>11/2</del>	13/2
Bradley Johnson to score in 90 mins	<del>9/2</del>	13/2

- RequestABet Live
- Player To Be Carded
- Winner Of Tie Live
- Player To Be Sent Off
- How Will The Tie Be Decided



Go to Cash Out

Show me:

RequestABet™

15 RequestABets™ Filter

## Filter by Market Clear

- Team to win
- Both Teams To Score
- Player to score
- Over/Under Goals
- Player carded
- Bookings
- Correct Score
- Corners

## RequestABet Live (15)

Andy King & Bradley Johnson to be carded	28/1
Yohan Benalouane & Marcin Wasilewski to be carded	28/1

```
const App = (props) => <div>
  {props.showRabBar &&
    <Sticky enabled={props.rabModeEnabled} innerZ={8} bottomBoundary="#page-content">
      <RequestABet
        onToggle={props.rabOnToggleClick}
        onRequestAPrice={props.rabOnRequestAPrice}
        priceFormatter={props.priceFormatter}
        onRemoveSelection={props.rabOnRemoveSelection}
        onAddToBetSlip={props.rabOnAddToBetSlip}
        onReset={props.rabOnReset}
      />
    </Sticky>}
  {props.rabModeEnabled
    ? props.showRabMarkets && <RabMarkets onRabClick={props.onRabClick} />
    : <FootballMarkets
      onOutcomeClick={props.onOutcomeClick}
      priceFormatter={props.priceFormatter}
      showMyRabs={props.showRabBar}
    />}
</div>;
```

# FUNCTIONAL COMPOSITION

**“It is better to have 100 functions operate on one data structure than 10 functions on 10 data structures..”**

Alan Perlis



```
const cardsMarketRegExp = new RegExp(cardsMarketRegexs.join("|"), "i");
const playerMarketRegExp = new RegExp(playerMarketRegexs.join("|"), "i");
const teamMarketRegExp = new RegExp(teamMarketRegexs.join("|"), "i");
const periodMarketRegExp = new RegExp(periodMarketRegexs.join("|"), "i");

// Predicates :: Market → Boolean
export const isBoost: (Market) ⇒ boolean = propSatisfies(test(/boost/gi), "name");
export const isActive: (Market) ⇒ boolean = propEq("displayStatus", "active");
export const isSuspended: (Market) ⇒ boolean = propEq("displayStatus", "suspended");
export const isRequestABet: (Market) ⇒ boolean = propEq("type", "request-a-bet");
export const isActiveOrSuspended: (Market) ⇒ boolean = anyPass([isActive, isSuspended]);
export const isCashoutable: (Market) ⇒ boolean = propEq("cashoutable", true);
export const isGoalMarket: (Market) ⇒ boolean = propSatisfies(test(/goals?/i), "name");
export const isPlayerMarket: (Market) ⇒ boolean = propSatisfies(test(playerMarketRegExp), "name");
export const isPeriodMarket: (Market) ⇒ boolean = propSatisfies(test(periodMarketRegExp), "name");
export const isCardsMarket: (Market) ⇒ boolean = propSatisfies(test(cardsMarketRegExp), "name");
export const isTeamMarket: (Market) ⇒ boolean = propSatisfies(test(teamMarketRegExp), "name");
export const isCornerMarket: (Market) ⇒ boolean = propSatisfies(test(/corners?/i), "name");
```

ENCAPSULATE CSS

```
title: {
  margin: 0,
  textShadow: "0 1px rgba(0, 0, 0, 0.1)",
  fontWeight: "normal",
  fontFamily: "SkyMedium",
  fontSize: Size.LARGE_ICON,
  textTransform: "capitalize",
  paddingLeft: Size.INNER_SPACING
},

titlePrefix: {
  display: "none",

  "@media (min-width: 390px)": {
    display: "inline-block"
  }
},
```

**EXTRACT LOW LEVEL DESIGN LANGUAGE**

## UI Library

## Atoms

Global

Accordion

Buttons

Dividers

Glyphs

List

OutcomeTitle

PriceboostBadge

PriceSpacer

Tabs

TickBox

Toggle

## Molecules

Price

MarketHeader

NoteEssential

NotePromotional

Selector

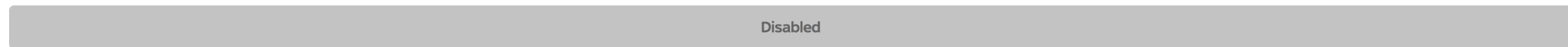
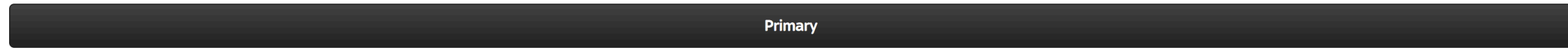
## Organisms

StandardMarket

PriceboostMarket

## &lt;Buttons /&gt;

## Buttons

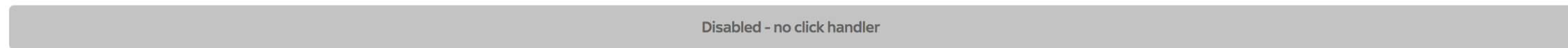


## Inline buttons

Primary

Secondary

## Click handlers



You've clicked the button 9 times

```
<Button type="primary" href="foo.com">Jump to foo</Button>
```

## Overview

These are our buttons, use them wisely.

## PropTypes

## UI Library

## Atoms

Global

Accordion

Buttons

Dividers

Glyphs

List

OutcomeTitle

PriceboostBadge

PriceSpacer

Tabs

TickBox

Toggle

## Molecules

Price

MarketHeader

NoteEssential

NotePromotional

Selector

## Organisms

StandardMarket

PriceboostMarket

## &lt;Buttons /&gt;

## Buttons

Primary

Secondary

Confirm

Info

Disabled

## Inline buttons

Primary

Secondary

## Click handlers

Disabled - no click handler

Click me!

Sheesh, don't you think you've done enough clicking?

```
<Button type="primary" href="foo.com">Jump to foo</Button>
```

## Overview

These are our buttons, use them wisely.

## PropTypes

**THE ELEVENTH HOUR CURVE BALL**



sky BET

## PREMIER LEAGUE REQUEST-A-BET

ANY PREM LEAGUE TEAM TO WIN EUROPEAN TROPHY	2/1
ARSENAL & TOTTENHAM BOTH TO FINISH OUTSIDE TOP 4	3/1
ALL 3 PROMOTED TEAMS TO STAY UP	9/1
MAN UTD TO WIN PREM LEAGUE & SUNDERLAND RELEGATED	14/1



**DELIVER A MARKET LEADING  
REQUESTABET™ PRODUCT FOR THE START  
OF THE PREMIER LEAGUE SEASON**

(That gave us less than six weeks)

```
const App = (props) => <div>
  {props.showRabBar &&
    <RequestABet
      onToggle={props.rabOnToggleClick}
      onRequestAPrice={props.rabOnRequestAPrice}
      priceFormatter={props.priceFormatter}
      onRemoveSelection={props.rabOnRemoveSelection}
      onAddToBetSlip={props.rabOnAddToBetSlip}
      onReset={props.rabOnReset}
    />
    {props.rabModeEnabled
      ? props.showRabMarkets && <RabMarkets onRabClick={props.onRabClick} />
      : <FootballMarkets
        onOutcomeClick={props.onOutcomeClick}
        priceFormatter={props.priceFormatter}
        showMyRabs={props.showRabBar}
      />}
  </div>;
```

Allow customers to request a bet consisting of outcomes from the same event

Request the bet – if it can be priced immediately you'll see the result in real-time, otherwise it will be sent to the trading team

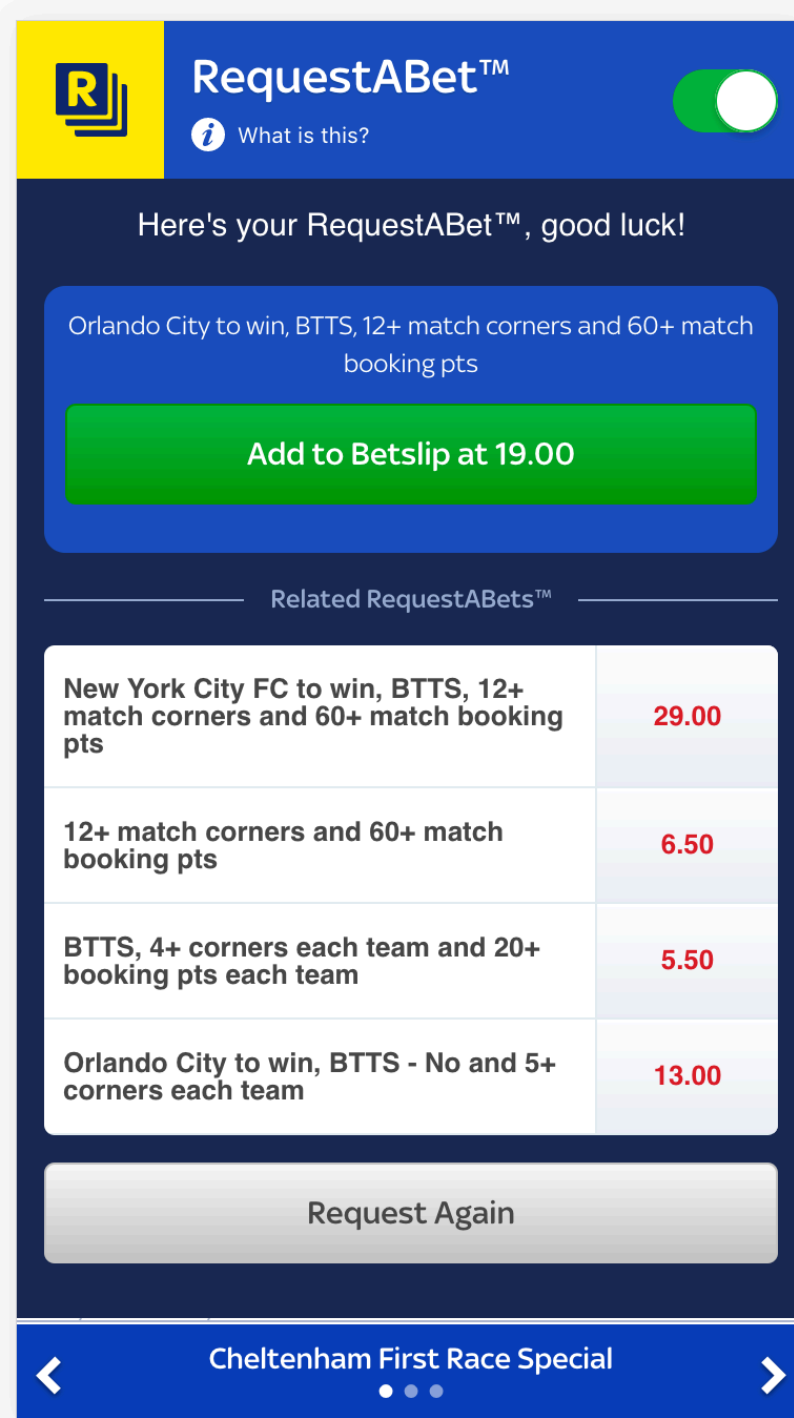
The screenshot shows the RequestABet mobile app interface. At the top, there is a yellow logo with a white 'R' on a blue background, followed by the text 'RequestABet™' and a green toggle switch. Below the logo is an information icon and the text 'What is this?'. The main content area is a dark blue card with three blue buttons, each with a white 'X' icon: 'To Score in 90mins: Andy Carroll', 'Corners Taken: 11+ Match Corners', and 'Full Time Result: West Ham'. A green button labeled 'Request' is positioned below these. Underneath the 'Request' button is the text 'Can't find what you'd like? Tweet us!'. Below the card is a list of outcomes: '40+ West Ham Booking Points', '30+ Chelsea Booking Points', '30+ Booking Points Each Team', 'Correct Score', 'Full Time Result', '✓ West Ham', 'Draw', and 'Chelsea'. The 'West Ham' outcome is highlighted in green.

Select outcomes from a curated list of markets and add them to your request cart

Your requests are stored locally and a push notification is sent to the device to notify when the trading team have stopped pricing requests

When a selection is added we calculate suggestions using a web worker

Web worker runs in separate JavaScript thread to minimise performance overhead



When a request is submitted, we can use the pre-built suggestions list to show you highly related options

WORKING WITH REACT AND THE CLIENT-SIDE  
COMPONENT APPROACH ALLOWED US TO  
DEVELOP THE FEATURE IN PARALLEL TO THE  
EXISTING ROADMAP

**CUSTOMERS LOVE THE FEATURE**

(And we delivered it with a week to spare)



**Conor Fussell**  
@Fuss1991

Follow

I bloody love #RequestABet. #BettingBetter with @SkyBet

lette

27 Last 14 days

Single @ 125/1 Stake: £10.00

You won £1,260.00 (inc. stake)

**Kane to score, Tottenham 4-0, 12+ match corners and Wanyama to be carded @ 125/1**

RequestABet Specials 80/1 and above  
Tottenham v Stoke

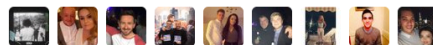
Event: Football  
Premier League

Event date: 13:30 26<sup>th</sup> Feb 2017

Resulted: Yes

RETWEETS  
2

LIKES  
13



3:29 PM - 26 Feb 2017

2

2



13



**Phil Suckling**

@PhilSuckling

Follow



When you have 40p left in your sky bet account so stick it on a random #RequestABet 😂 @Oddschanger

Single @ 100/1

Stake: £0.40



You won £40.40 (inc. stake)



**Ibrahimovic to score 2+ goals and Stephens & Romeu to be carded @ 100/1**



RequestABet Specials 80/1 and above Manchester Utd v Southampton

Event: Football

EFL Cup

Event date: 16:30 26<sup>th</sup> Feb 2017

Resulted: Yes



Bet details



15:32 26<sup>th</sup> Feb 2017

RETWEET

1

LIKES

9



7:16 PM - 26 Feb 2017



OVER 1 MILLION UNIQUE USERS SINCE LAUNCH  
AND ROUGHLY 1.7 MILLION UNIQUE REQUESTS  
RECEIVED BY TRADERS

**THE BITS THAT DIDN'T GO SO WELL**

BUILT COMPONENTS IN THE UI-LIBRARY TOO SOON

SERVER RENDERING

SOME FUNCTIONAL TECHNIQUES CAME WITH A  
STEEP LEARNING CURVE

TEAM NAMES MATTER MORE THAN YOU THINK

**HAVE WELL DOCUMENTED ENGINEERING  
PRINCIPLES WHICH ARE ACTIVELY DISCUSSED**

## Technical Approach




As a team we primarily work with JavaScript and have chosen to embrace the following as best-practice:


- Test Driven Development (Uncle Bob's three laws with a side order of Kent Beck's two rules)
  - Unit tests should be runnable on the devices our customers will use (we've chosen Karma as our test runner)
  - Unit tests should avoid mocks wherever possible
  - Factories should be used to ensure fixtures are kept up to date with the data contracts in the actual application
- Embrace functional programming techniques
  - Immutability and side-effect free functions
  - Functional libraries such as Ramda.js
  - Fantasyland specification
  - Folktale data structures (Maybe, Either, Validation, Task, etc.)
- Performance is a feature
- Static analysis and type safety are important (see Flow and ESLint)
- Understand that JavaScript is now largely a compiled language
  - The code you write is not necessarily the code executed by the runtime
  - Use module bundlers to enable optimisation and better application structure
  - Use transpilers and core.js polyfills to ensure interoperability between supported browsers and devices



TDD, PAIRING AND CODE REVIEW KEEP THE  
QUALITY BAR HIGH

**WHAT'S NEXT?**



Neftchi Fargona v Metalourg Bekabad

33:15


NEF 0 3 MET

 Player (15), Player (19), Player (24)

 Player (31)



 (9)

[Pitch](#)
[Stats](#)
[Scores](#)


Premier League 

75'


 Chelsea

 5 Middlesbrough
 

75'


 1 West Ham
 


75'

 1 Manchester United
 


 0 Hull
 



75'

 4 Manchester City
 



 0 Liverpool
 


75'


 0 Swansea
 

 0 Everton
 

75'


 3 Leicester
 

 0 Sunderland
 

[All Markets](#)
 RequestABets
 [Cash Out](#)

 Full Time Result
 

Win <b>22/1</b>	Draw <b>8/1</b>	Win <b>1/10</b>
-----------------	-----------------	-----------------

[Next Team To Score - 3rd](#)


Create a more engaging customer experience  
Increase the resilience of our core features  
Scale our product  
Scale our teams



JavaScript™



```
function get_attachment_data(attachment_id) {
  return {
    'class': esc_attr( $this->get_class() ),
    'style': esc_attr( $this->get_style() )
  };
}
```

JS

# THANK YOU

Ian Thomas – Principal Engineer, Sky Betting & Gaming

@anatomic

