



## Why Oracle JET & What did we learn?

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3<sup>rd</sup> December 2018  
UKOUG Tech18 – Liverpool



@Jmneate

# Today's Agenda



JavaScript in 2018



So Why JET?

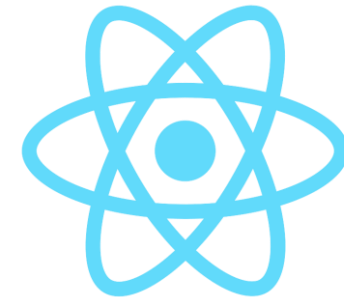
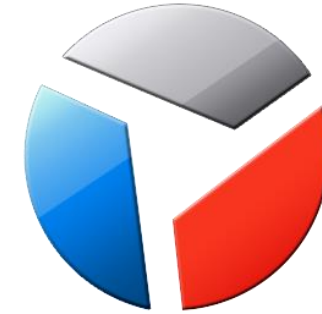


JETting through the ages



My Best Practices

# JavaScript in 2018



jQuery



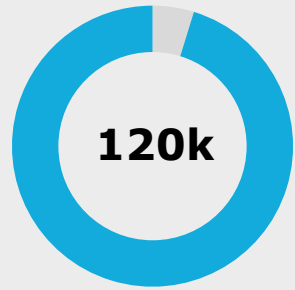
ember<sup>®</sup>





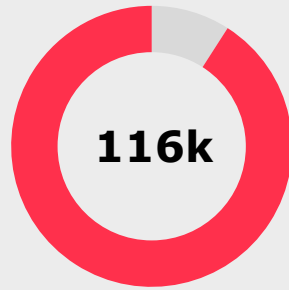
# JavaScript in 2018

## GitHub Stars Count



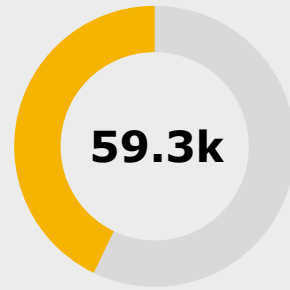
**120k**

VueJS



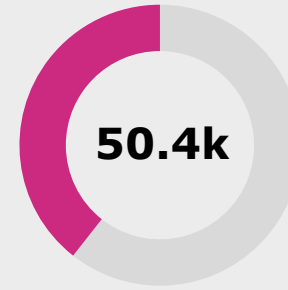
**116k**

ReactJS



**59.3k**

Angular



**50.4k**

jQuery



**20.2k**

EmberJS

# JavaScript in 2018



● VueJS  
Search term

● ReactJS  
Search term

● Angular  
Search term

● EmberJS  
Search term

● jQuery  
Search term

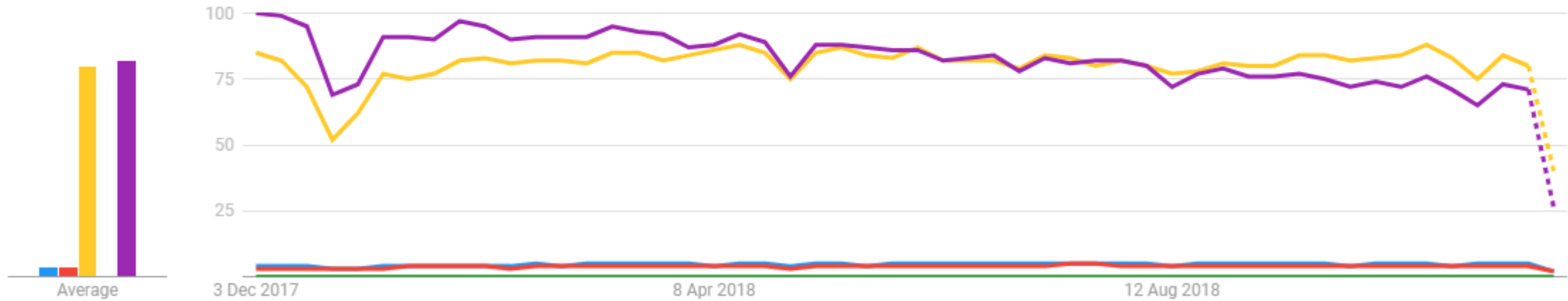
Worldwide ▾

Past 12 months ▾

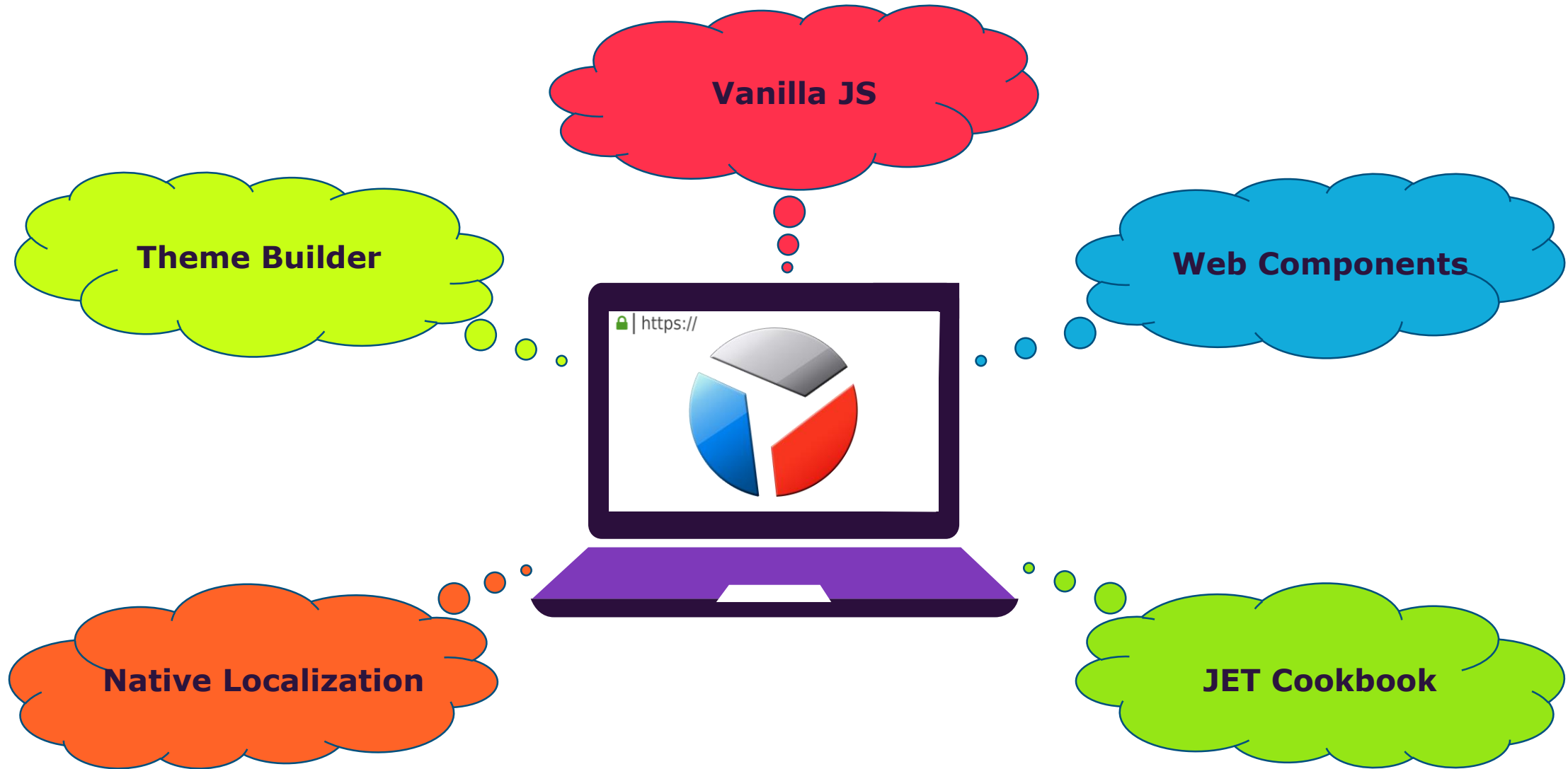
All categories ▾

Web Search ▾

Interest over time ?

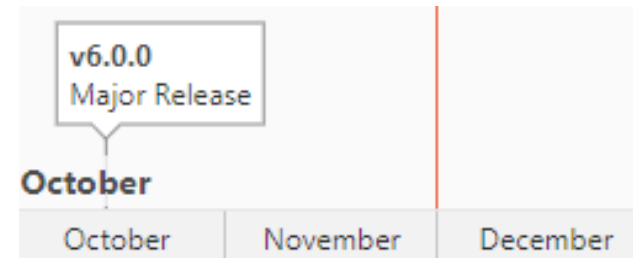
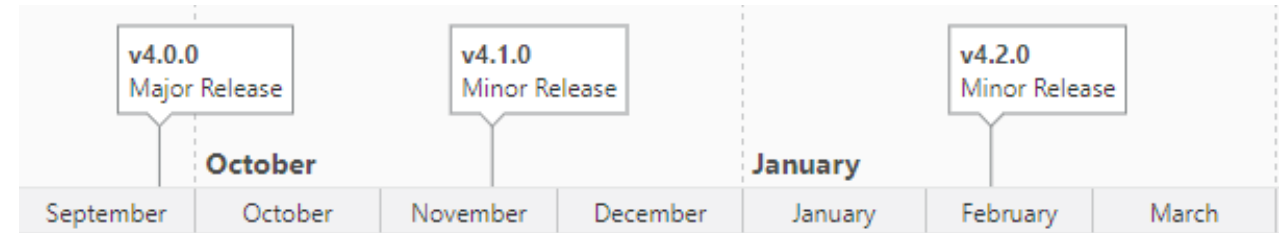


# So why JET?





# JETting through the ages





# JET v4.0.0 – September 2017

## HTML Elements using ojComponent Data-Binding

### Before

```
<div id="appNavDrawer"  
  role="navigation"  
  data-bind="ojComponent: {component: 'ojNavigationList',  
    optionChange: drawerChange,  
    navigationLevel: 'application',  
    item: {template: 'navTemplate'},  
    beforeSelect: selectHandler,  
    selection: router.stateId,  
    data: dataSource, edge: 'start'}">  
</div>
```

### After

```
<div id="navDrawer" role="navigation">  
  <oj-navigation-list  
    data="[navDataSource]"  
    edge="start"  
    item.renderer="[oj.KnockoutTemplateUtils.getRenderer('navTemplate', true)]"  
    on-click="[toggleDrawer]"  
    selection="{router.stateId}">  
  </oj-navigation-list>  
</div>
```






## Composite Components

```
context.props.then(function (propertyMap) {  
    //Store a reference to the properties for any later use  
    self.properties = propertyMap;  
    self.currentUsername(self.properties.currentUsername);  
});  
  
context.properties.currentUsername
```

## Messages

 EMAIL


**Email message summary**  
Email message detail

 CALENDAR

**Calendar message summary**  
Calendar message detail

 CHROME

**Chrome message summary**  
Chrome message detail

 Large Fx Rate Deviation

02:57 PM

Fx Rate has decreased by 32% from [10] to [6.8110824]

Accept

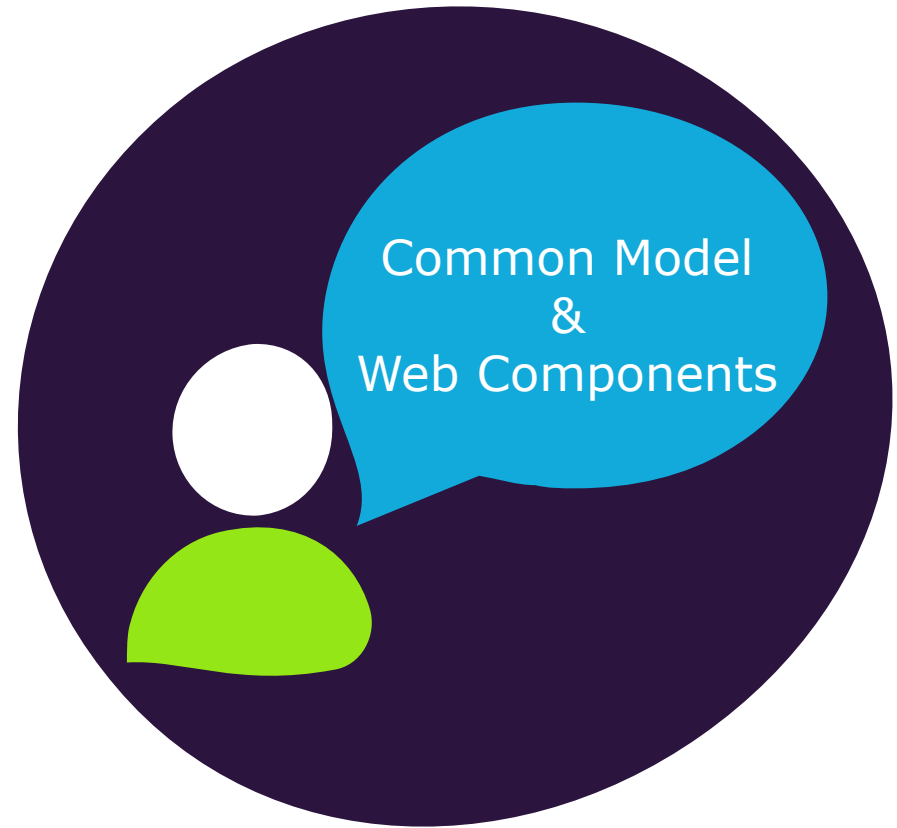
Reject



# TypeScript



# JET Best Practices



# Common Model

Rationale for use



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API Design



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Model & Collection



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Reduced Boilerplate



# Common Model - Example

Still not convinced?

Before

```
$.getJSON("example URI")  
  .done(function (value) {  
    // Do something with the response  
  })  
  .fail(function (error) {  
    // Do something when failure  
  });
```

```
product.name = "Updated Name";  
  
$.ajax({  
  type: 'PUT',  
  url: 'http://example-rest-service/products/1',  
  data: JSON.stringify(product),  
  dataType: 'json'  
});
```

After

```
productCollection.fetch({  
  success: function(productCollection, response, options) {  
    // Do something with the response  
  },  
  error: function(productCollection, xhr, options) {  
    // Do something when failure  
  }  
});
```

```
productModel.set("name", "Updated Name");  
  
productModel.save();
```

# Web Components

## Rationale for use



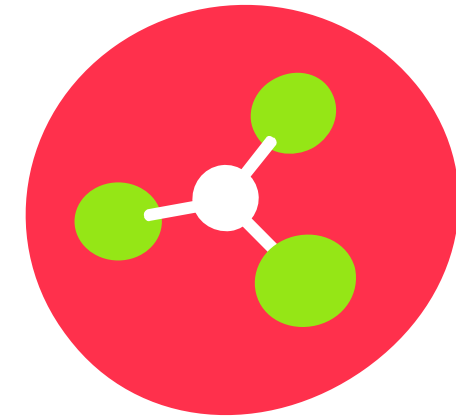
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Reusable UI



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Easily Shareable



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VBCS Integration



# Web Components - Example

Still not convinced?

Master Language Content

Retail Country Specific Content

Retail Country Administration

User Management

Select Country and Language

- Australia  
English
- Egypt  
Arabic
- Iceland  
Icelandic
- United Kingdom

```
<language-selection id="languageSelection"  
  on-option-selection="[[onSelectionChanged]]">  
</language-selection>
```

# Questions?







People matter, results count.

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