



Future-proofing your skills
for 2018 and beyond...

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JP Morgan & Chase

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About Me

How do I live up to my name?

DV == 'Deepak Vadithala' || DV == 'Data Visualization'



Time Travel



Life as a Developer before QlikView



Source: The IT Crowd

Life as a Developer after QlikView



Introspection!

Is what I'm
working on today;
going to stand the
test of time?



Mikeal Rogers
@mikeal



This is going to sound harsh, but the tech industry isn't something you can make a long term career in unless you are a lifetime learner.

The ground is going to shift beneath you.

The things you invested in are going to be less valuable as time rolls along.

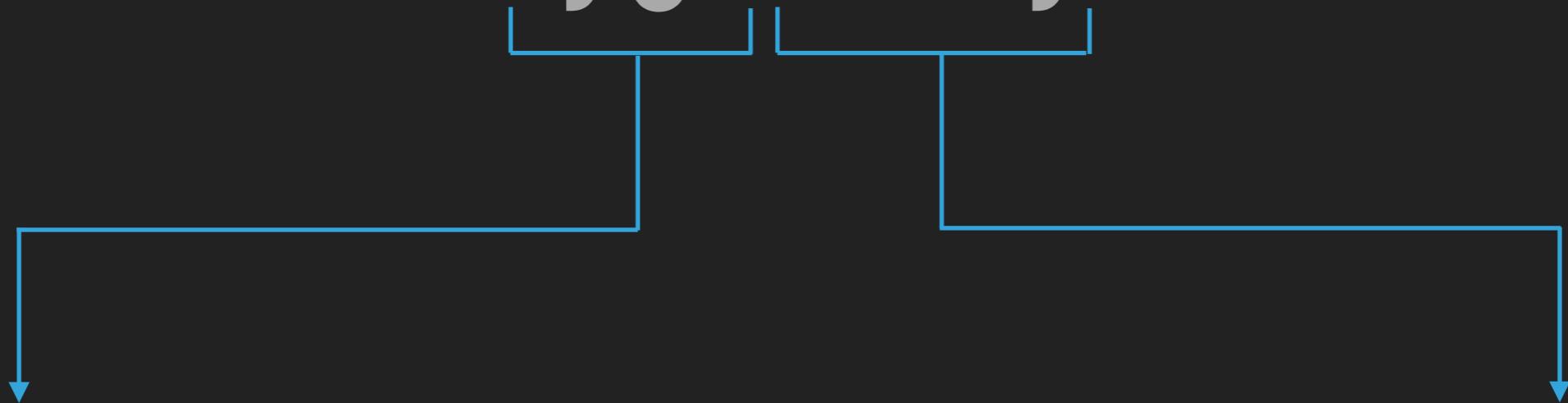
13 Feb 19:50 from [San Francisco, CA](#)

Whether it is harsh
or not that is
debatable
but it is TRUE!

Rediscover

Lygometry

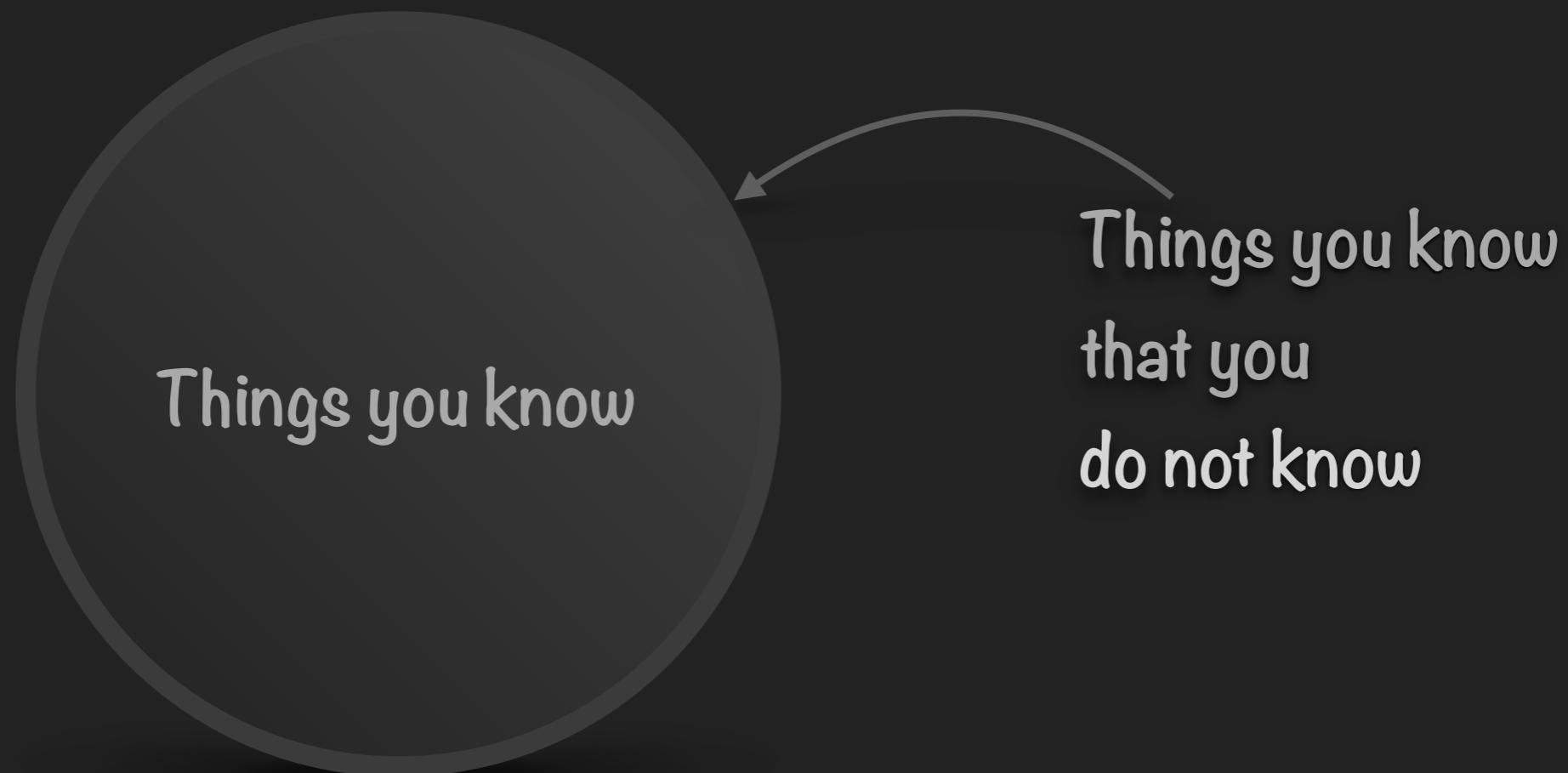
~ Amin Toufani



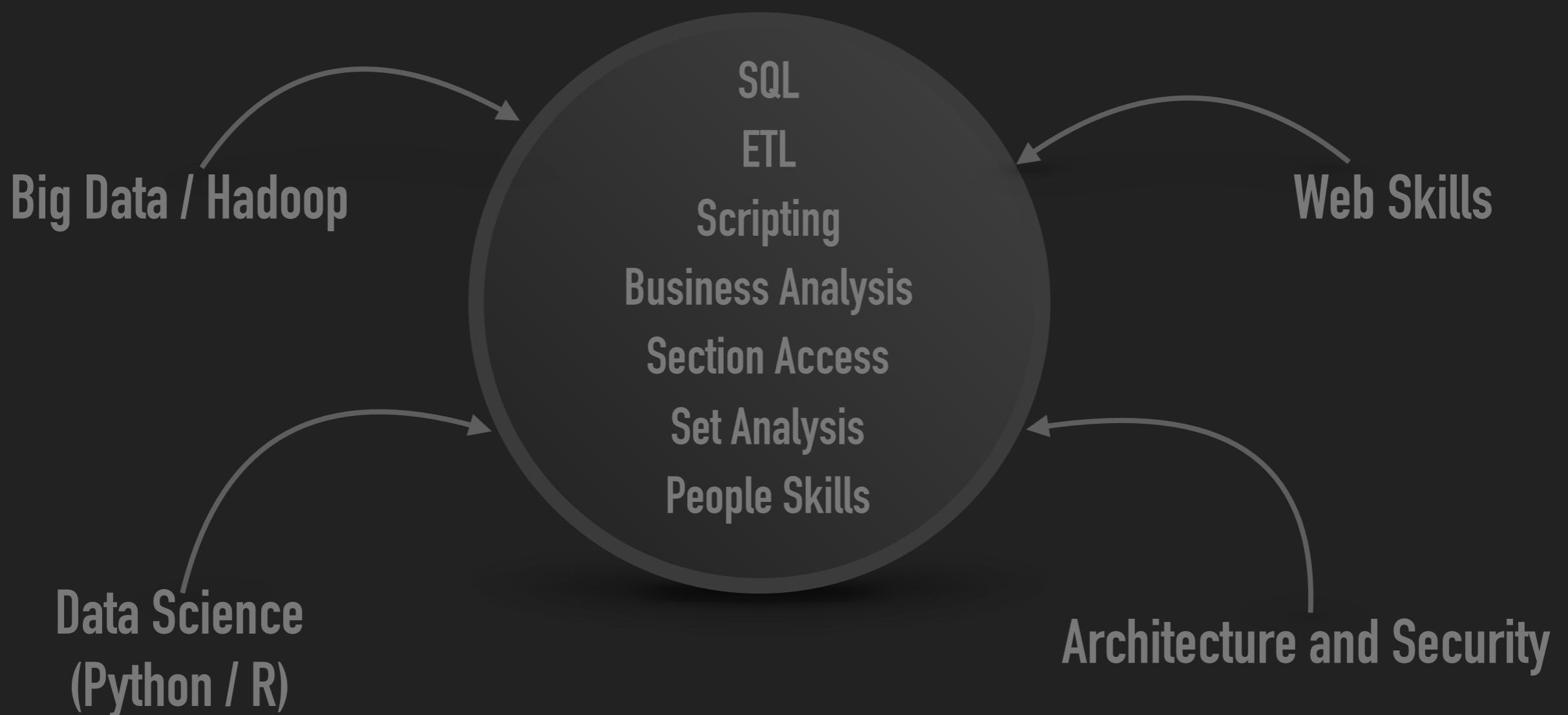
“Lygo”: latin for shadow or darkness

“Metry”: Measurement

Lygometry



Lygometry in Qlik Developers' Context



What makes a Qlik Sense Developer?



Products ▾ Videos More Resources ▾

Search for topics and videos



English ▾

Qlik Sense® Developers

February 2018



- Home
- › Get started
- › API reference
- › Qlik Engine API
- › Mashups
- › Widgets and extensions
- › Custom connectors
- › Windows (.NET) applications
- › Dev Hub

Build widgets and extensions

By using standard web technologies, you can build custom visualization objects to extend the visualization capabilities of Qlik Sense.

Build mashups

Build mashups by embedding Qlik Sense apps, sheets, and visualizations in web portals, applications, intranets and extranets.

Create connectors

Use the Qlik QVX SDK to develop new custom connectors to retrieve data from custom data sources.

Build Windows (.NET) applications

Use the .NET SDK to integrate Qlik Sense in your own software, either as a Windows application, or as a web-based application.

Automate administrative functions

Use the server side APIs to automate jobs like creating and triggering tasks, applying licenses, and uploading extensions.



What's new in Qlik Sense February 2018?

What makes a Qlik Sense Developer?

Senior BI/QlikSense Engineer

Apply Now

You need to have:

- 5+ years of experience in BI Tools with expertise in implementing QlikSense in an Enterprise environment.
- Strong Data Reporting and Visualization experience with the ability to tell a story and drive analytics solutions.
- Knowledge of database design techniques and advanced SQL skills. Experience working with extremely large data volumes is a plus.
- Demonstrated experience and ability to work with business users to gather requirements and manage scope
- Team player with strong oral and interpersonal skills

We'd love to see:

- Experience in the creation of Extension objects using Qlik Capability APIs and QLIK Engine API
- Prior web development experience using languages such as HTML, CSS, JavaScript, AngularJS, Node.js

If this sounds like you, then we want to talk! Please apply here.

Senior QlikSense Developer

Apply Now

reporting tool to provide customized data for reporting

Requirements:

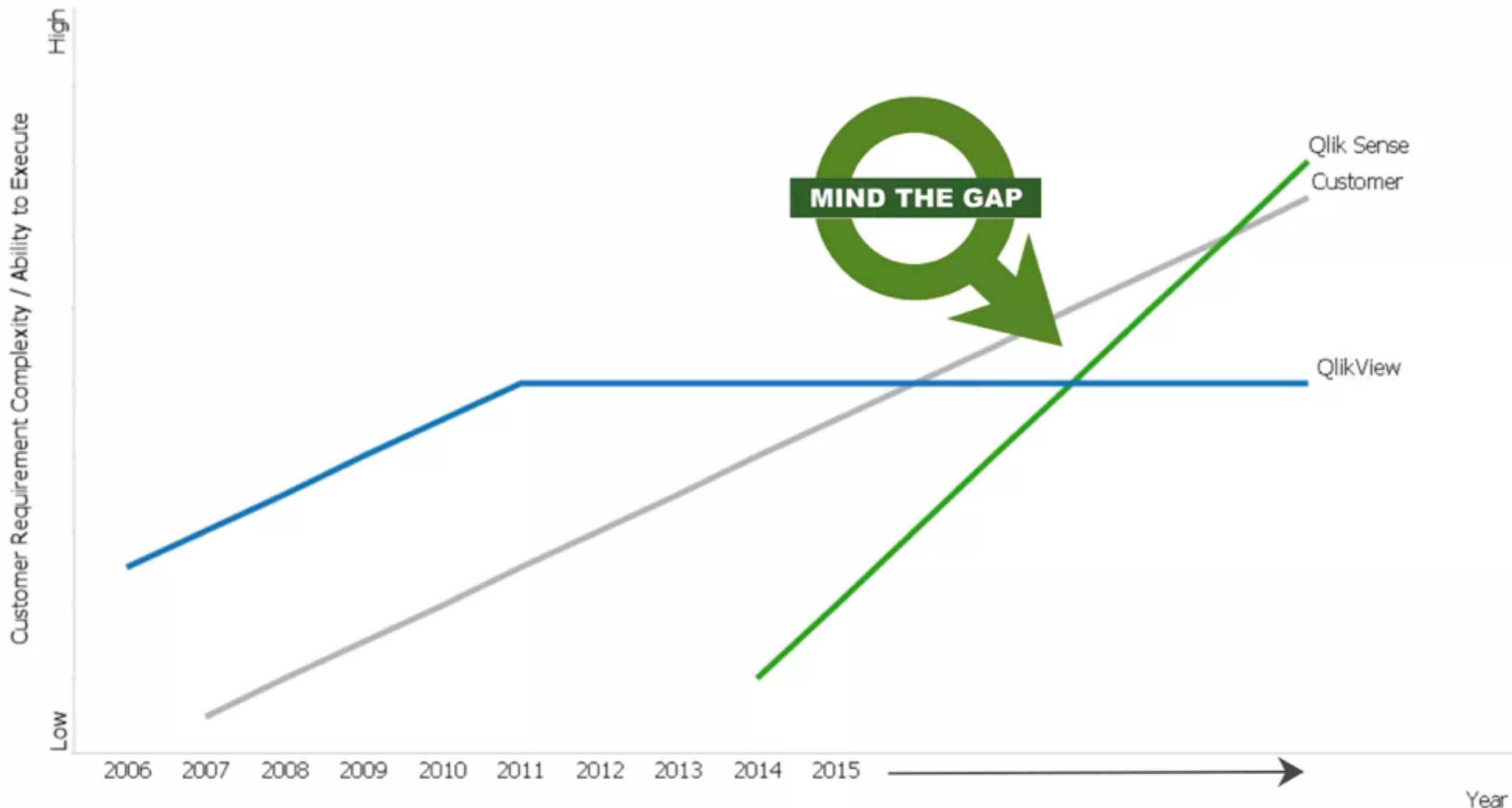
- BS/BA degree in Computer Science, Information Systems or related field
- Experience either developing, maintaining and/or administering QlikSense
- Experience developing and deploying micro-services using tools such as Docker or Kubernetes
- Experience working and developing services for SaaS organizations.
- Experience working with Big Data platform such as AWS Redshift, Apache Spark
- Experience working with relational datasets using SQL and sql scripts
- Excellent oral and written communication skills
- Excellent problem-solving skills
- Highly analytical with the ability to work independently

We provide competitive salaries as well as all of the other standard benefits. Most importantly, we provide a really interesting working

Qlik Developers: Mind the Gap

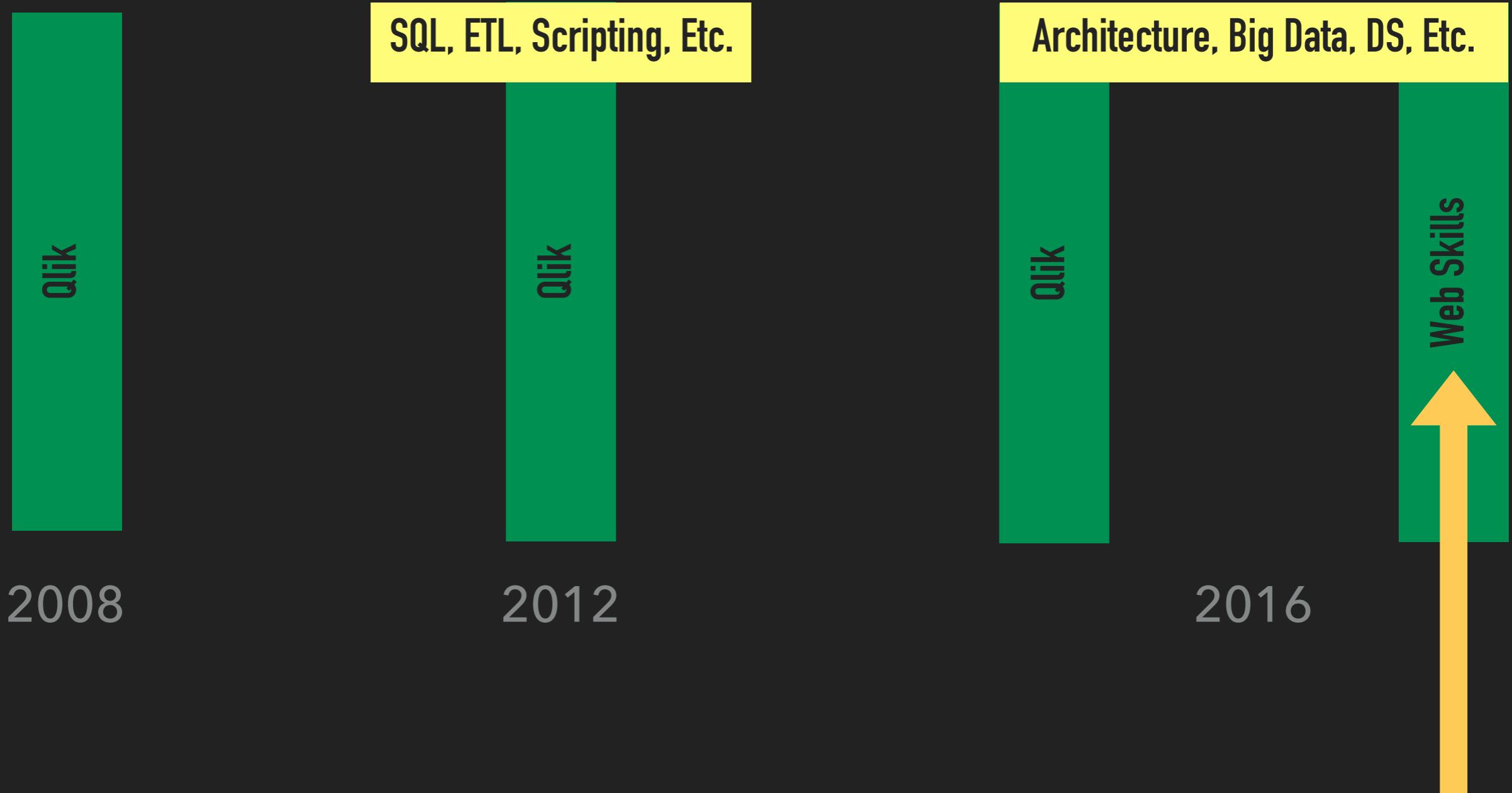
The Qlik Gap

Customer Requirement Complexity vs. Qlik's Ability To Execute



Source: Karl Pover

Transformation



Web Skills

Web Developer

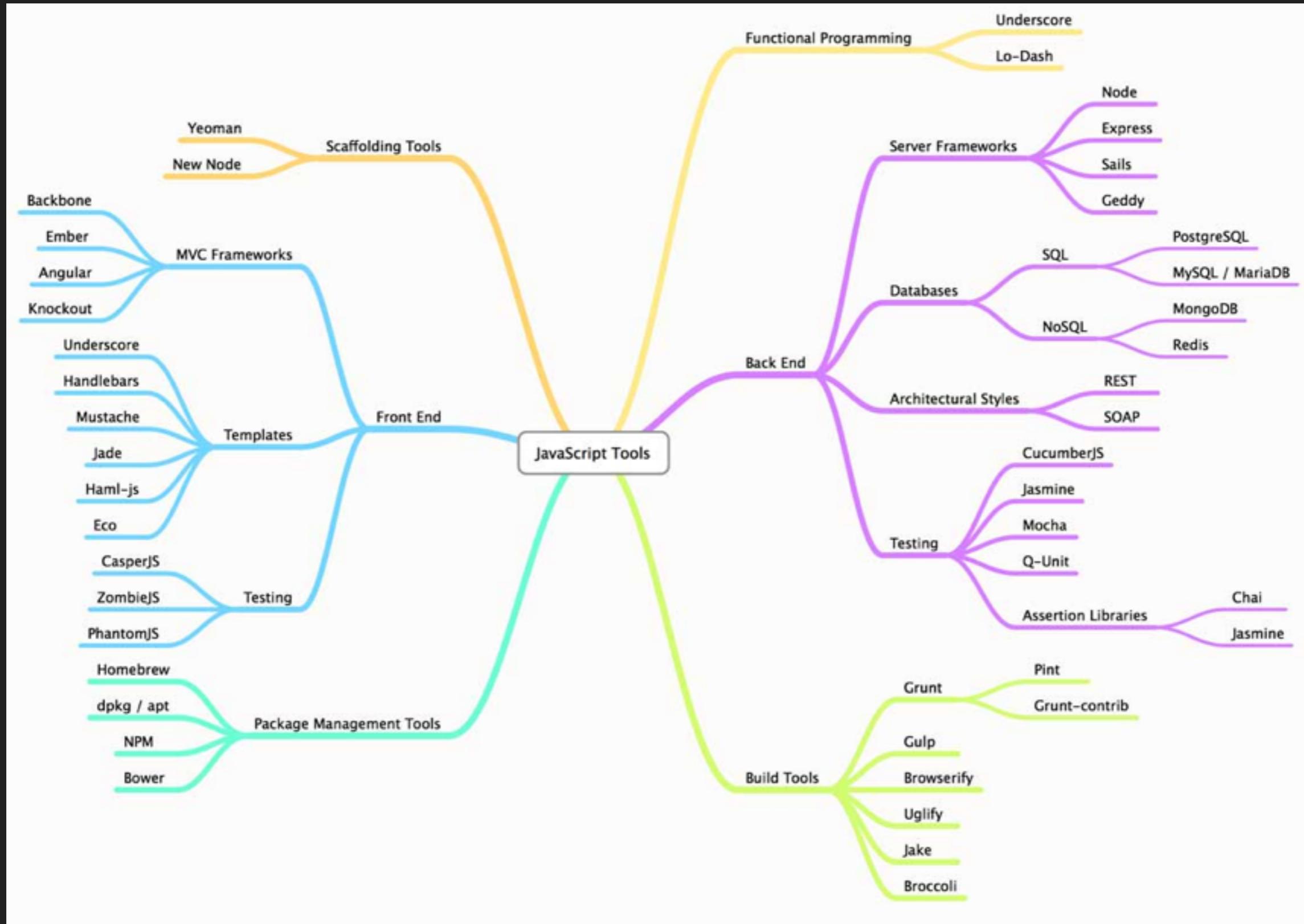


Source: <https://imgur.com/gallery/aAD6hRW>

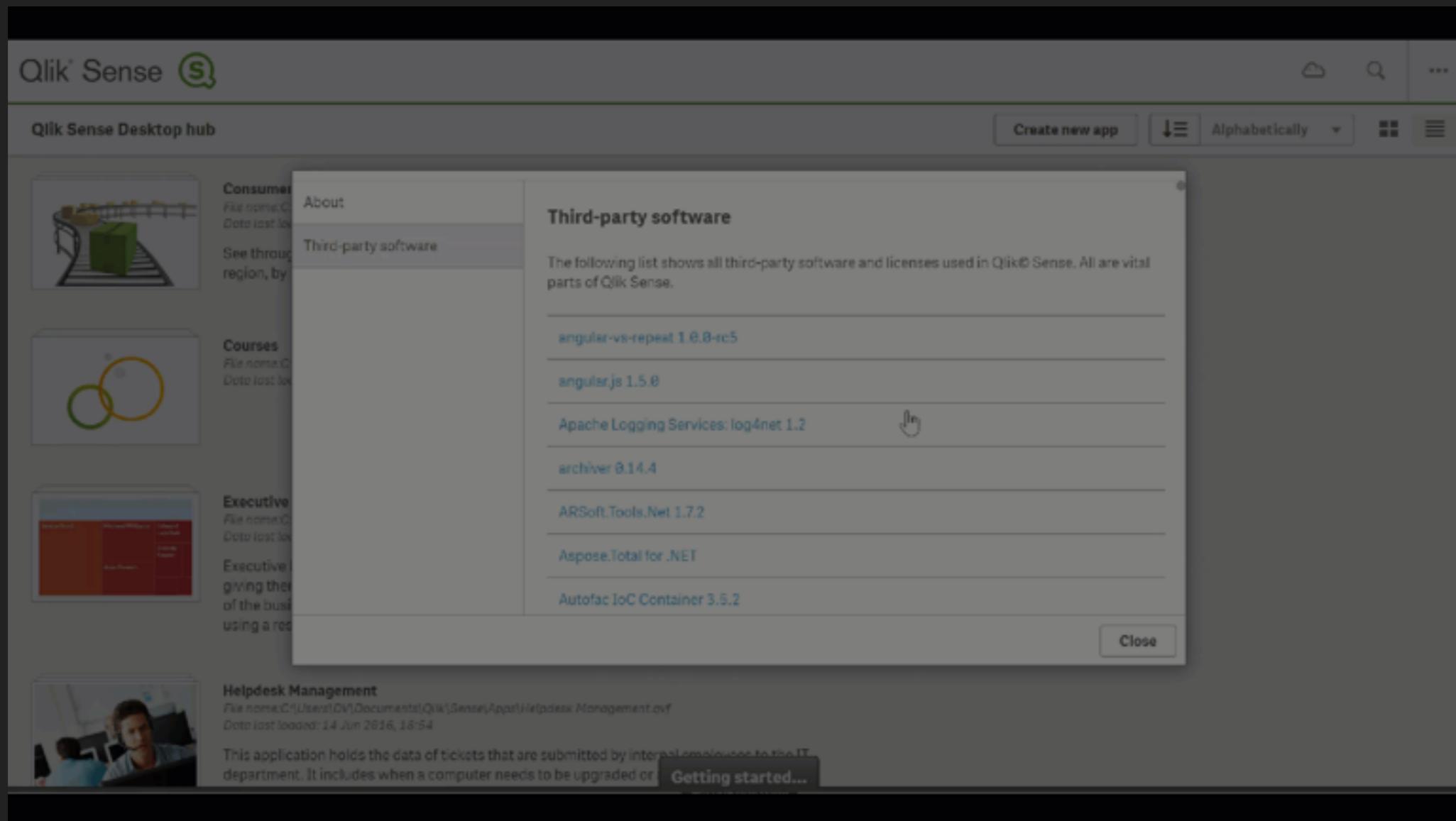
Extension Object Dependencies



A List of Foundational JavaScript Tools



Qlik Sense Desktop: Third Party Software



Web Developer



Source: Source: <https://www.pexels.com/photo/man-in-white-shirt-using-macbook-pro-52608/>

How I ruined my weekend: Understanding “==” equality Testing

Source: <https://dorey.github.io/JavaScript-Equality-Table/>

How I ruined my weekend: Understanding “==” equality Testing

Good news:

ES2016 (ES7) and ES2017 (ES8) will save us!

NaN	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
-Infinity	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
Infinity	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
undefined	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
null	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
".."	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
"-1"	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
"0"	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
"1"	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
false	[1]	{}	[]	"0"	"1"	-1	0	1	false	true
true	[1]	{}	[]	"0"	"1"	-1	0	1	false	true

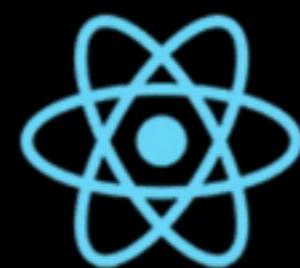
Best JS Library/Framework Ecosystem



Source: Source: <https://www.pexels.com/photo/gray-and-black-assorted-key-761149/>

JavaScript Guessing Game is a browser quiz game built with Vue.js, including more than **100 JavaScript frameworks and libraries** to test your knowledge on the JS ecosystem.

React, Flux, Angular, Aurelia, TypeScript, Flow, oh my! By trying to make things simpler, I have created this game to stay on top of JavaScript in 2016. -Sami Suo-Heikki



SKATEJS

RACTIVEJS

REACT A green button containing the word "REACT" with a small hand cursor icon pointing at the letter "A".

CHAPLIN

Web Dev Tools



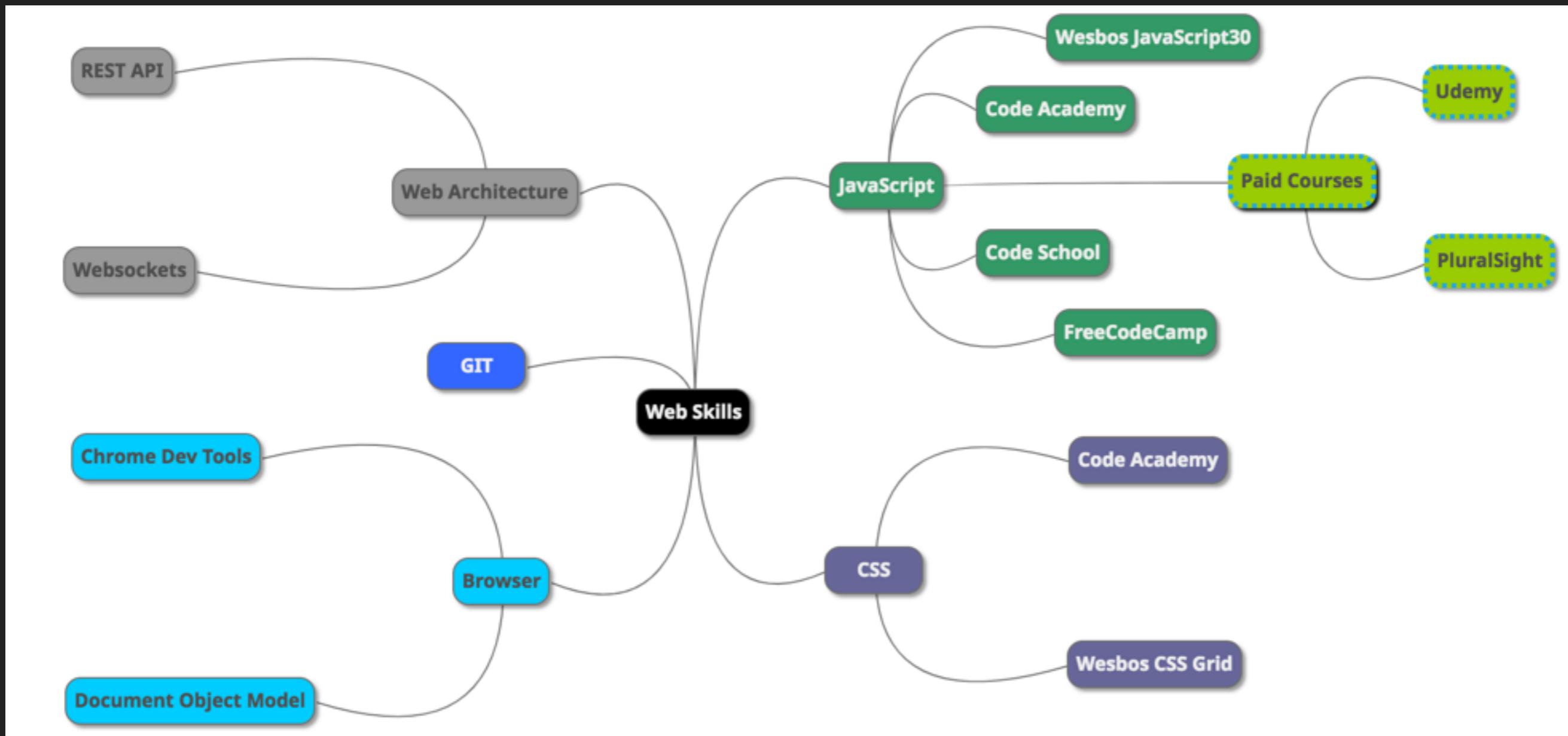
*Mantra: Stick to ONE editor (I recommend VS Code)

Wrong Tools



Source: <https://www.pexels.com/photo/grey-metal-hammer-34520/>

Learning Path



JS Learning Journey



Interview with Karl Pover

- ▶ Easy Start: HTML5 and CSS
- ▶ Hold your Frustration (JS can be intimidating!)
- ▶ To read and not practice is same as not to read
- ▶ When things don't work; it is not you! Change the book or the course.
- ▶ Fail fast and identify what is not important to learn
- ▶ Start simple extensions (Example: Bar Chart)
- ▶ Get early feedback from the community (Twitter, Qlik Branch and Qlik Community etc.)
- ▶ Don't feel embarrassed when you share. You're already better than not starting!
- ▶ Persistence and Iterative learning

Web Dev Learning Path



Start
HTML5 and CSS



Start
Vanilla JavaScript
and Git



Start
D3 objects as
Qlik Sense extensions



Learn
JS libraries and
Web Architecture

Publish
on Qlik Branch
and explore other
Viz extensions

Explore
Qlik Sense APIs
Visualisation
Capabilities
Engine



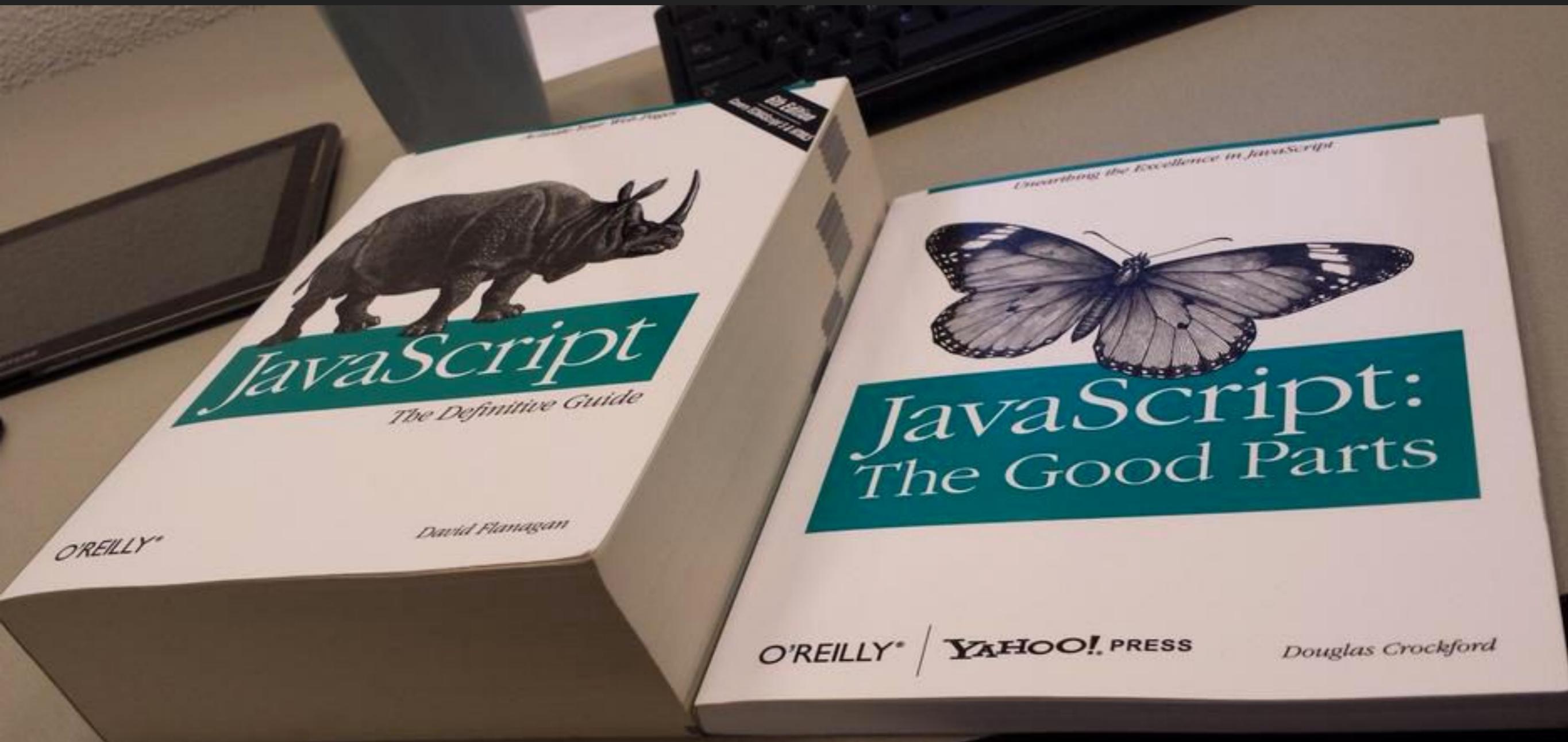
start using
**Capabilities and
Engine API**



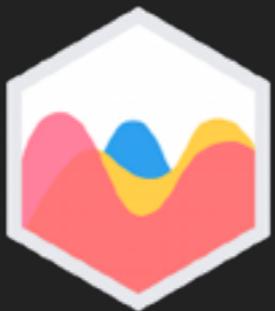
Socialize...
and attend meetups
to collaborate



After all, it's not that bad!



Data Visualization



picasso.js

Notebooks and API Insights

<https://beta.observablehq.com/@mindspank/picasso-js-introduction>

The screenshot shows the Observable platform interface. At the top, there's a navigation bar with a logo, a search bar, and links for 'My notebooks' and '+ New'. Below the header, the page title 'Notebooks and API Insights' is displayed.

Featured collections:

- Introduction**: Welcome to Observable! Get started with these tutorials. This section includes a visualization of a network graph and some explanatory text.
- Visualization**: Explore and explain patterns in quantitative data using D3 and Vega. This section includes a scatter plot, a histogram, and a heatmap.

The screenshot shows the Qlik API Insights interface. The main heading is 'Qlik API Insights' with the subtext 'Provides visibility into API changes in Qlik products'.

The interface is divided into three main sections:

- API changes**: Visualizes API changes per product version and API. It includes a magnifying glass icon and a brief description: 'Visualizes API changes per product version and API. Provides opportunity to compare product versions to identify and present changes to specific APIs.'
- APIs in product versions**: Basic information of the APIs where you can see which functions are included in specific product versions. It includes an 'API' icon and a brief description: 'Basic information of the APIs where you can see which functions are included in specific product versions.'
- Manifest**: Details of the component versions and API versions that are included in specific product versions. It includes a circuit board icon and a brief description: 'Details of the component versions and API versions that are included in specific product versions.'

<https://api-insights.qlik.com/#/start-page>

What about Data?

"Some languages can be read by human,
but not by machines,
while others can be read by machines
but not by humans.
XML solves this problem by being readable to neither."

JSON: Fat Free Alternative



Resources

Smart Learning



Books

D3.js in Action by Elijah Meeks

You don't JavaScript Series by Kyle Simpson

JavaScript Good Parts by Douglas Crockford

Eloquent JavaScript

Online Courses

Udemy: JavaScript Weird Parts

Speros Kokenes's YouTube Channel

Wesbos: JavaScript 30

Frontend Masters

Websy Classroom Training

Web Dev Ninja's

Alexander Karlsson @mindspank

Stefan Walther @waltherstefan

Ralf Becher @irrelgularbi

@qlik2*

Speros Kokens @sperosck

Karl Pover @karlpover

@Picassodotjs

Nick Webster @websy

Wesbos @wesbox

@getify

Eric Elliot @_ericelliot

Qlik Branch

Qlik Branch dv

All Unreads

Channels

Direct Messages

Apps

#general

☆ | 1,794 | 1 | Welcome to the Qlik Branch slack channel - The Developer community for...

Your workspace has 172,900 messages more than the 10k limit

That's more than 172,900 messages you can't see or search. Upgrade to a paid plan for access to your full history – plus features like guest accounts for contractors, group video calls, and unlimited apps.

[Learn More](#) [Skip for Now](#)

Is there a way around this? Wednesday, April 4th

Claudia Drey 4:07 AM joined #general along with 2 others.

Jose Ignacio Hervás Díaz 5:22 AM Anyone knows why I can't delete sheets from the QMC?
I see in the docu of the version 1.0 that deleting app objects from the QMC does not delete them from the qvf, however in the docu of the version November 2017 this issue is not reflected
So I suppose that the problem was solved

Erica Bertugli 5:29 AM joined #general along with Andreas Buchholz.

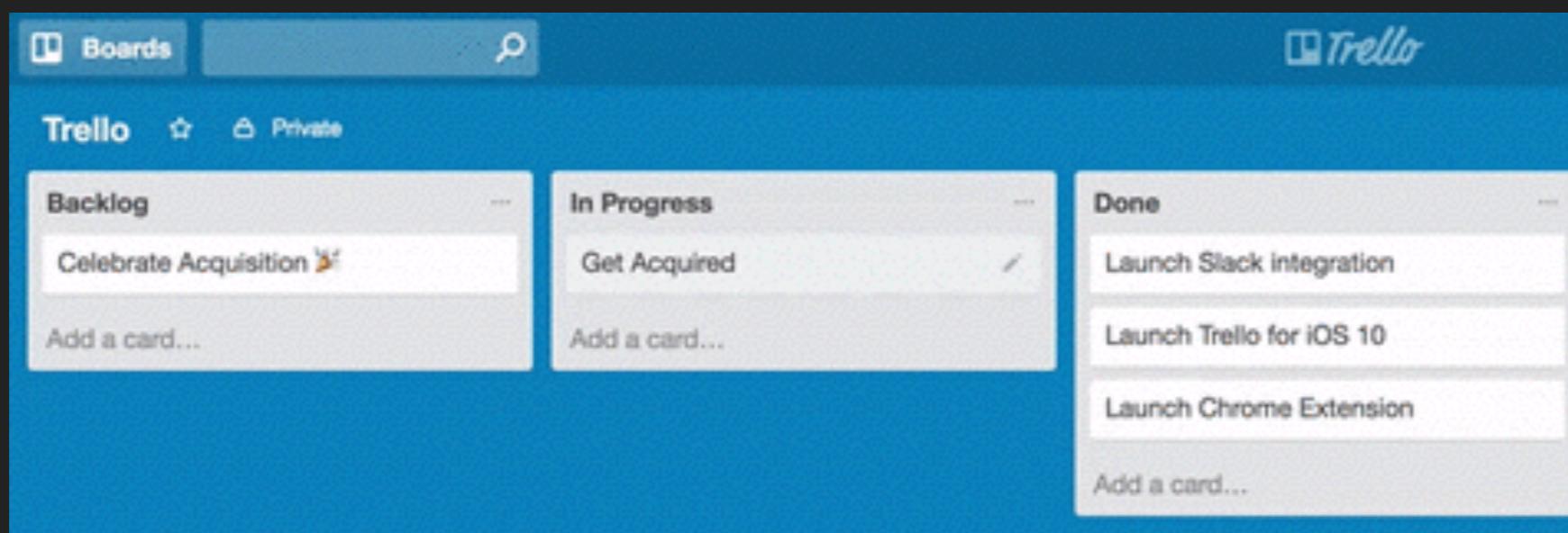
Tracy Russell-Beck 9:20 AM uploaded and commented on this file ▾

Viewing archives from Mar 28th, 2018 - Apr 6th, 2018 [Jump to recent messages](#)

Message #general

Productivity

Prioritisation and Project Management



Pomodoro

Power of Micro Sprints

25:00

START



Pomodoro Preparation



- ▶ **Flight Mode**
- ▶ **Disable Notifications**
- ▶ **Focus on ONE Thing for 25 mins (Only one!)**
- ▶ **Count the number of interruptions**
- ▶ **Avoid context switching**

Final Thoughts

- ▶ Aim for pi-shaped Knowledge
- ▶ JavaScript is evolving and surely getting a lot better
- ▶ Create a github repository and build the portfolio
- ▶ Join Qlik Branch Slack Channel and ask for pair programming

Always bet on JS

- First they said JS couldn't be useful for building "rich Internet apps"
- Then they said it couldn't be fast
- Then they said it couldn't be fixed
- Then it couldn't do multicore/GPU
- Wrong every time!
- My advice: [always bet on JS](#)



All the best

&

Thank you!

Breakout Session Survey

We strive to improve the event each year and are interested in hearing your feedback on this session.

To access the session survey please log into the mobile app and click this session on your personal agenda.

Click the icon in the bottom right to complete the survey.

We thank you in advance!

