esri

DEVELOPER SUMMIT

EUROPE

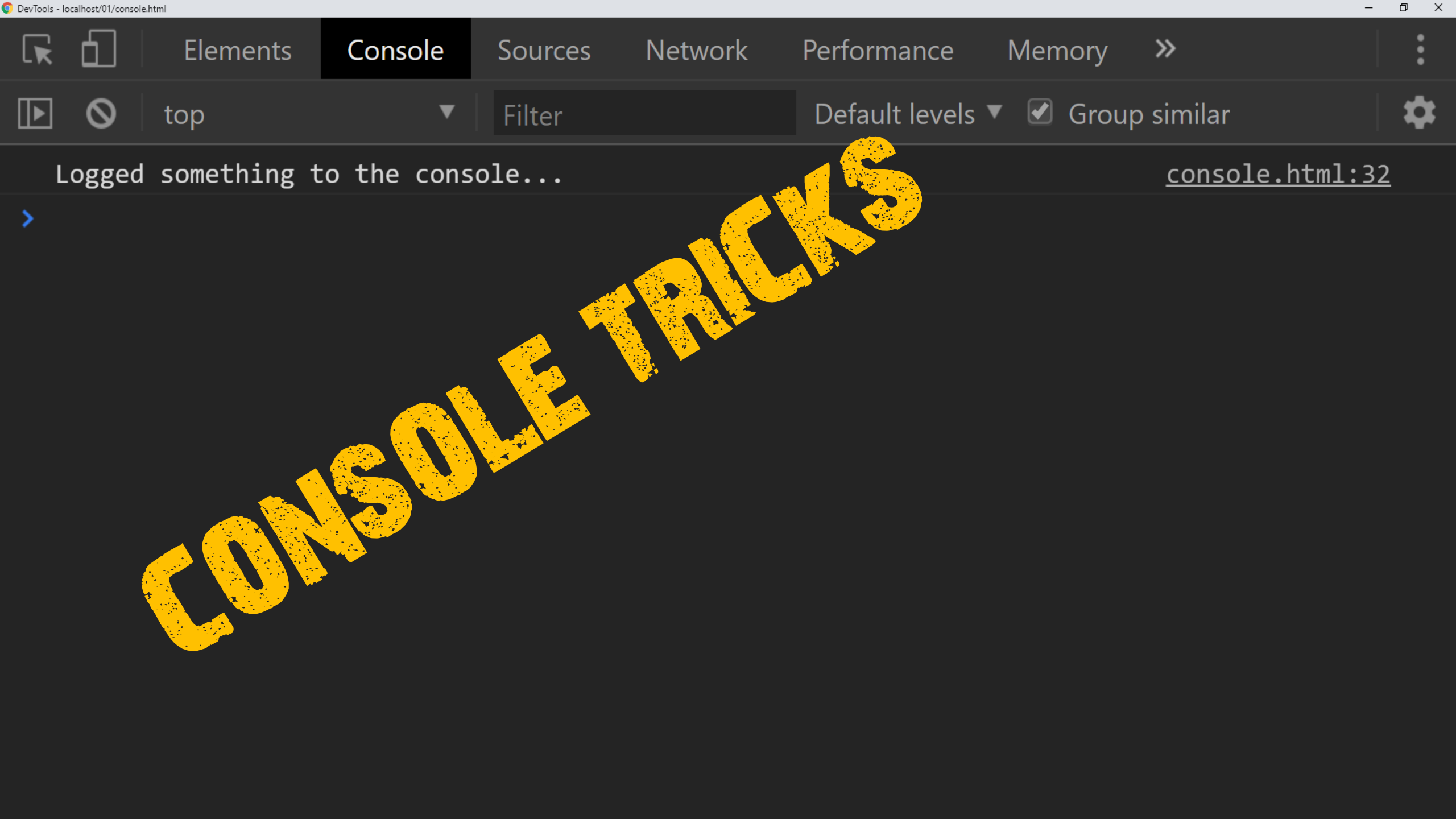
JavaScript Tips ‘n Tricks

Mark Jagt & Maarten van Hulzen

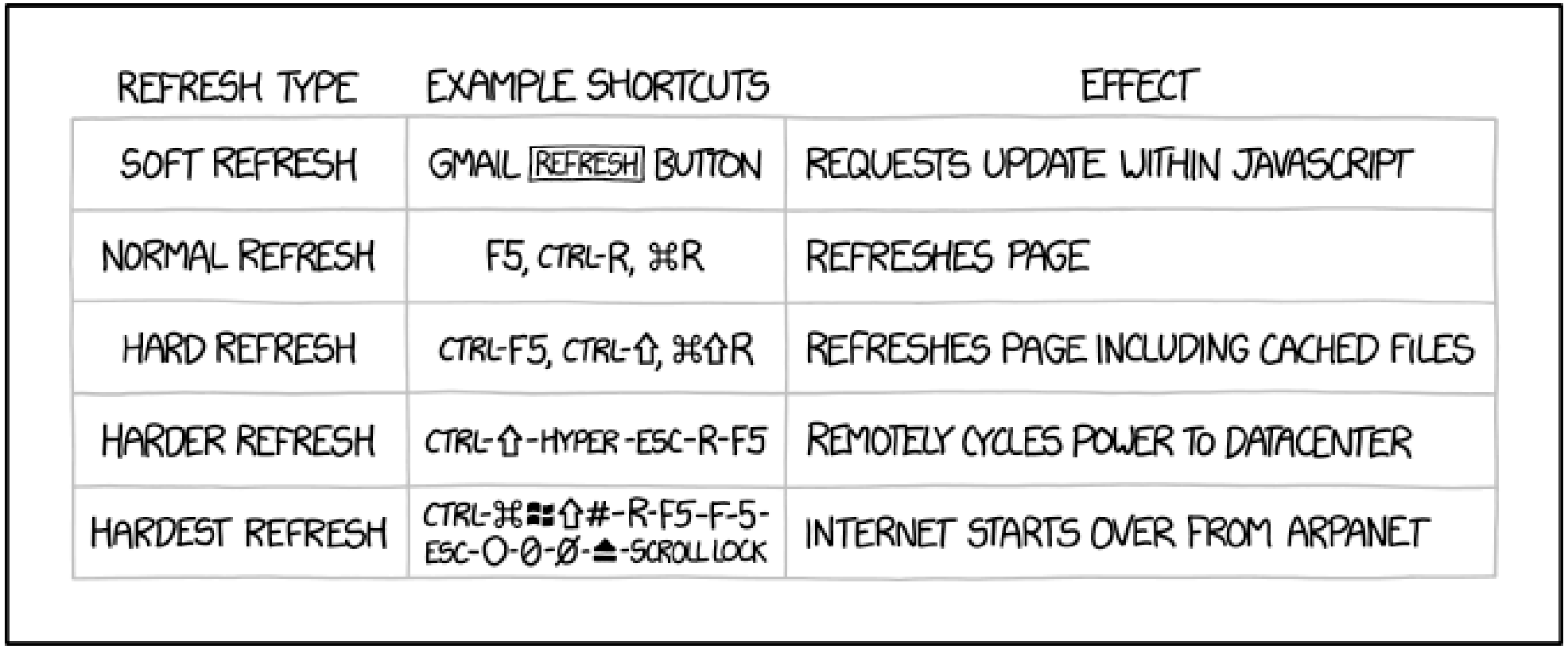
6 STAGES OF DEBUGGING

1. That can't happen.
2. That doesn't happen on my machine.
3. That shouldn't happen.
4. Why does that happen?
5. Oh, I see.
6. How did that ever work?

KEEP CALM AND HIT F12


DevTools - localhost/01/console.html
Elements
Console
Sources
Network
Performance
Memory
top
Filter
Default levels
Group similar
Logged something to the console...
console.html:32
CONSOLE TRICKS

Refresh Types



REFRESH TYPE	EXAMPLE SHORTCUTS	EFFECT
SOFT REFRESH	GMAIL [REFRESH] BUTTON	REQUESTS UPDATE WITHIN JAVASCRIPT
NORMAL REFRESH	F5, CTRL-R, ⌘R	REFRESHES PAGE
HARD REFRESH	CTRL-F5, CTRL-⇧, ⌘⇧R	REFRESHES PAGE INCLUDING CACHED FILES
HARDER REFRESH	CTRL-⇧-HYPER-ESC-R-F5	REMOTELY CYCLES POWER TO DATACENTER
HARDEST REFRESH	CTRL-⌘-❖-⇧-#-R-F5-F-5-ESC-O-Ø-Ø-Ø-⏏-SCROLL LOCK	INTERNET STARTS OVER FROM ARPANET

https://xkcd.com/1854/

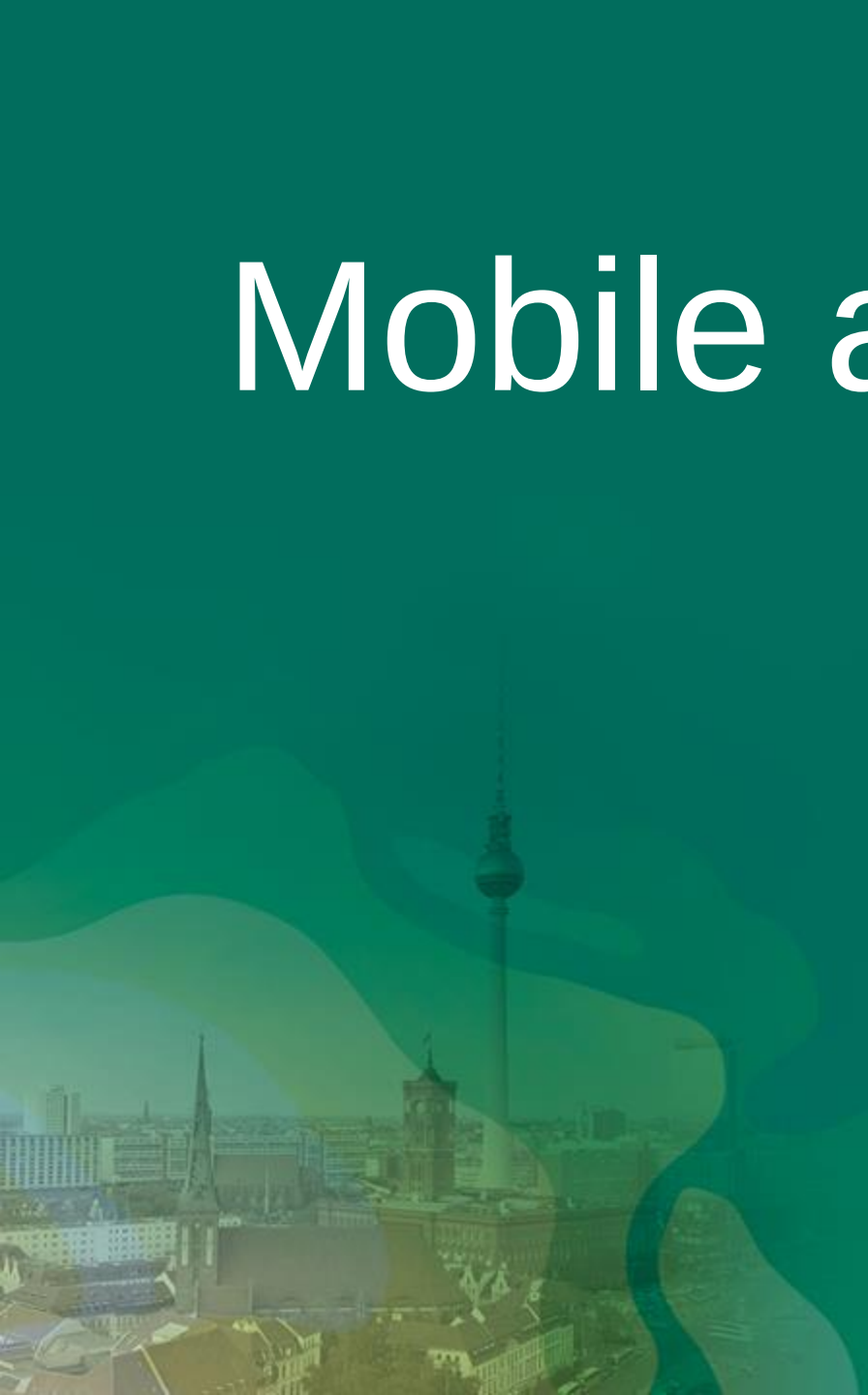
Blackboxing

IDE bugging

Fiddler

FREE WEB DEBUGGING PROXY

Mobile applications



Use what’s there

Web AppBuilder:
https://developers.arcgis.com/web-appbuilder/

Templates:
https://www.arcgis.com/home/group.html?id=2f0ec8cb03574128bd673cefab106f39#overview

Oh but why?

Conversation Between Browsers

What are we? Browsers! ... Browsers! Browsers!

What do we want? Faster! ... Faster! Faster!

When do we want it? Now! ... Now! Now!

Browsers!

Search API Reference

- esri
- esri/core
- esri/core/accessorSupport
- esri/core/workers
- esri/geometry
  - Circle
  - Extent

geometryEngine

Methods | Type definitions

```
require(["esri/geometry/geometryEngine"], function(geometryEngine) { /* code goes here */ });
```

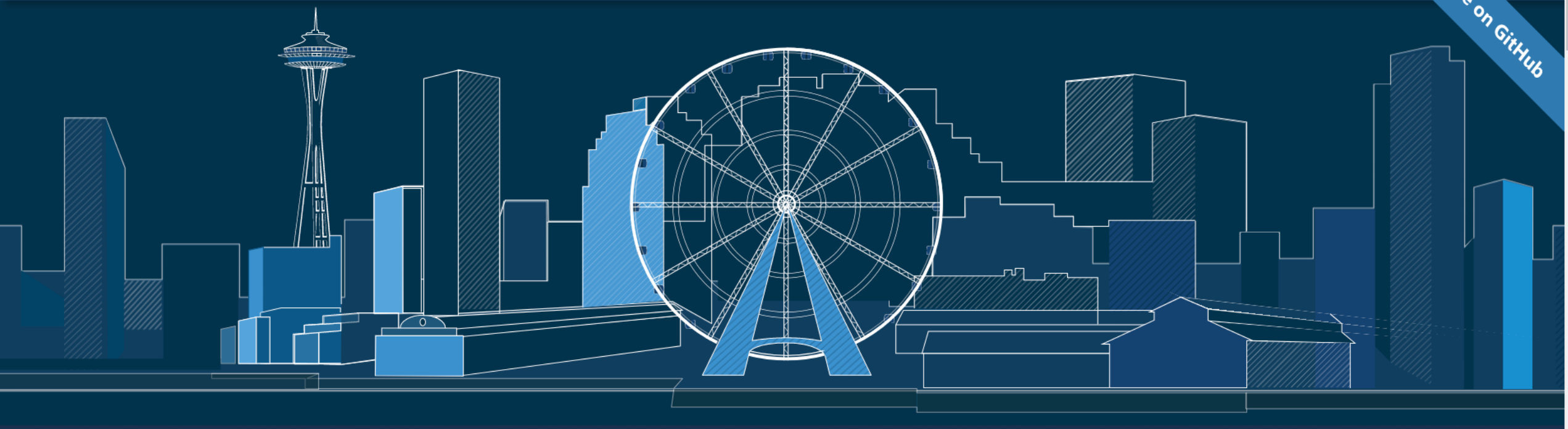
Object: `esri/geometry/geometryEngine`

Since: ArcGIS API for JavaScript 4.0

A client-side geometry engine for testing, measuring, and analyzing the spatial relationship between two or more 2D geometries. Read the following blog series to learn more about GeometryEngine:

- ArcGIS Blog - GeometryEngine: Testing spatial relationships and editing

Fork me on GitHub



TypeScript

JavaScript that scales.

TypeScript is a typed superset of JavaScript that compiles to plain JavaScript.

Any browser. Any host. Any OS. Open source.

Resources

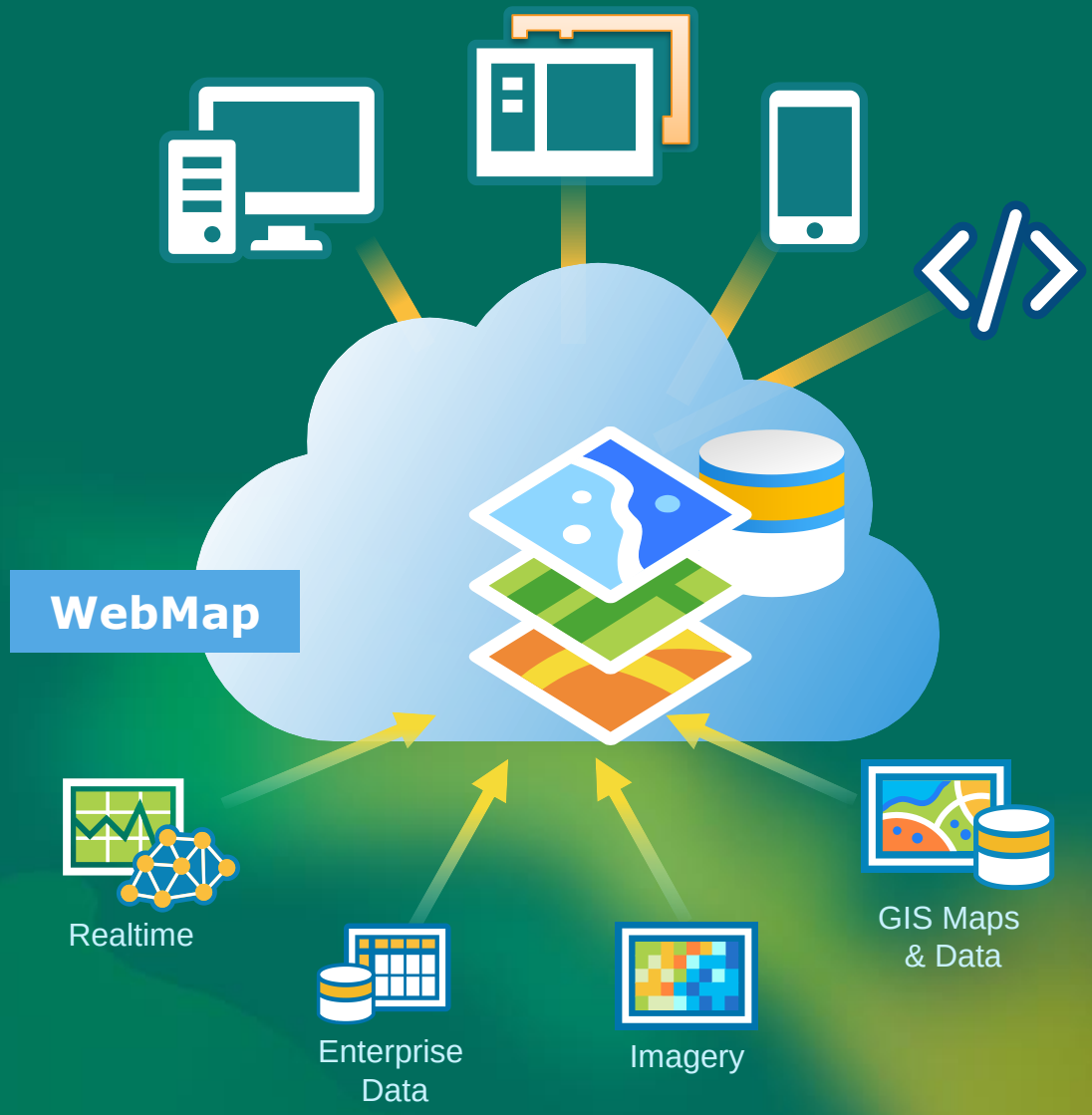
JavaScript API documentation & samples:
https://developers.arcgis.com/javascript/index.html

DevLabs
https://developers.arcgis.com/labs/?product=JavaScript&topic=any

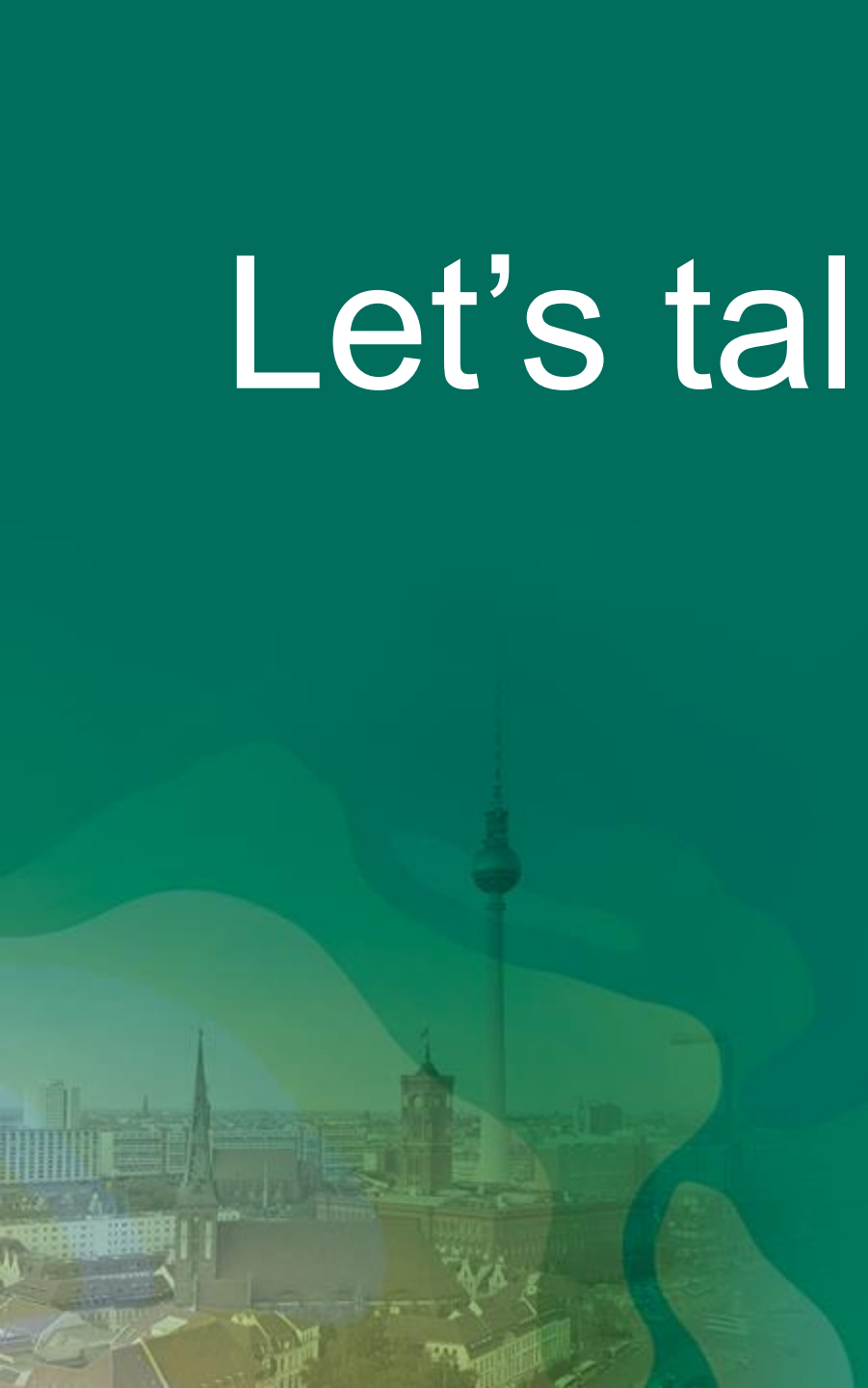
Sandbox

Symbol Playground
https://developers.arcgis.com/javascript/latest/sample-code/playground/live/index.html

WebMap



Let’s talk about Security

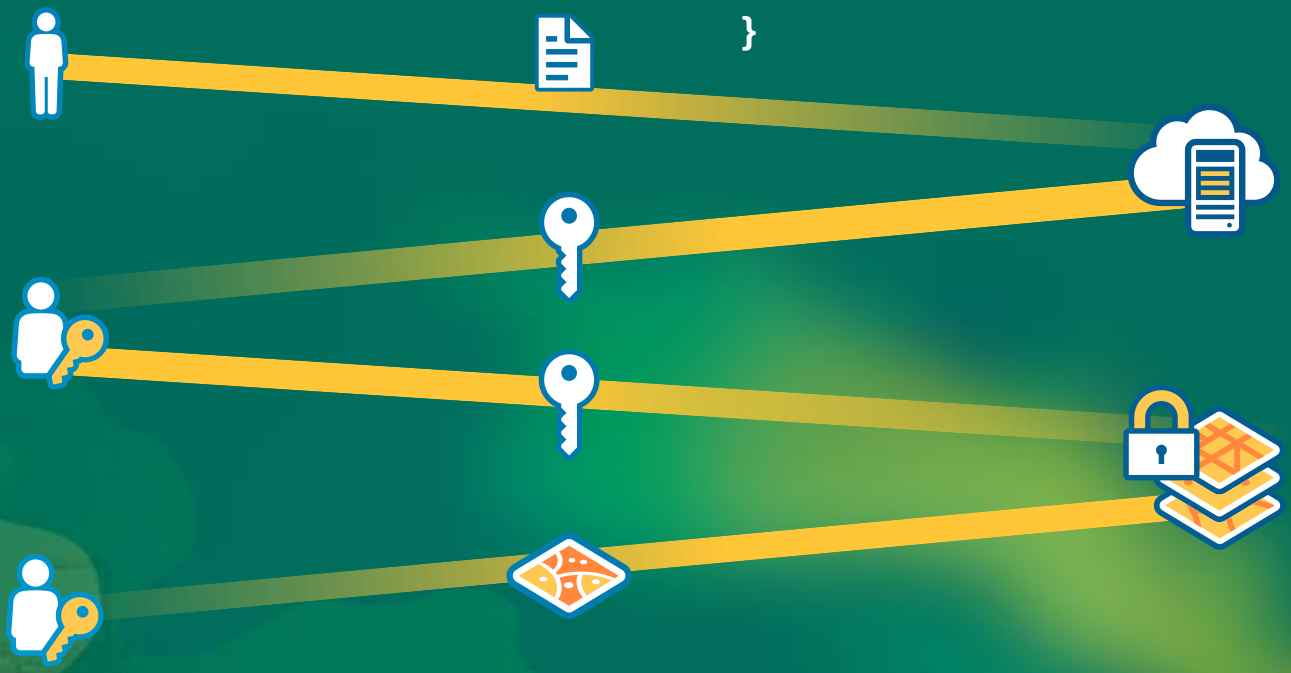


Security options

Token
OAuth2
Proxy

Token


```
{
  "token": "4UhLJHdC8B1HuXZQNqtoWEsQ68vZKybwZg369..",
  "expires": 1540220767529,
  "ssl": false
}
```

OAuth Basic

https://developers.arcgis.com/javascript/latest/sample-code/identity-oauth-basic/live/index.html

DevSummitBerlinApplication

Summary: No summary.

Created: Monday Oct 15 2018, 10:48AM

Modified: Monday Oct 15 2018, 10:48AM

Tags: Berlin | Dev Summit

Description

Demo application for Dev Summit Berlin 2018

Access and Use Constraints

No access and use constraints.

Share

View in ArcGIS Online

Client ID

wRbmeMcGFrMT2kw4

Client Secret

3627[redacted]

Temporary Token Generate New Token

oknuXA090uXaaaT3yzpx3wz7yi-z

Short-lived token for testing. Will expire Oct 15 2018 12:48:32PM.

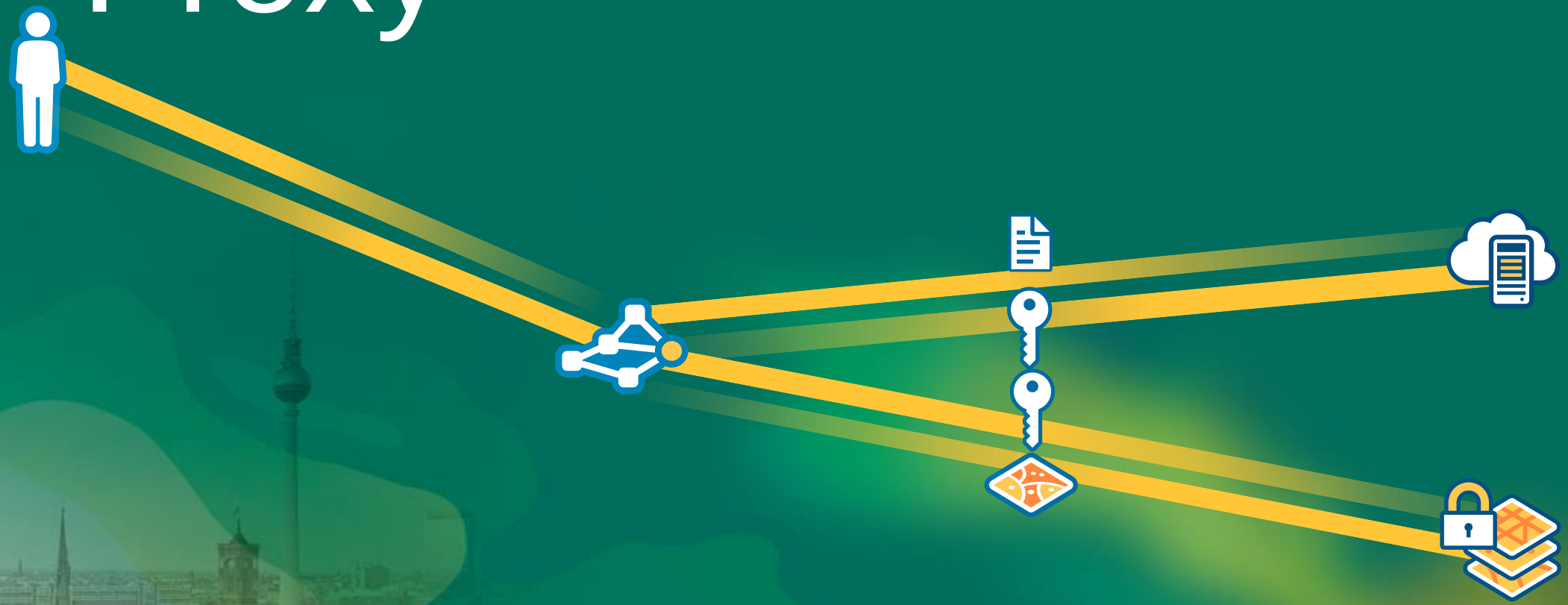
Details

Created: Oct 15 2018 10:48AM

Size: 0 Bytes

https://github.com/Esri/resource-proxy

Proxy



Search groups

WebGL

js

PopQuiz

js

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DEVELOPER SUMMIT
EUROPE

THANK YOU

http://esrinederland.github.io

esri
THE
SCIENCE
OF
WHERE