Google |

Dart End-to-End: A productive developer experience for the web

#dartlang





+KevinMoore314
@kevmoo



Dart



Developer Experience







UI





Matty



Pretty Cool!



Interface Experience



Intuitive Enjoyable Productive





More than... Syntax color coding test framework



End-to-End



Language Tools Libraries



Visual Studio XCode Android Studio





Dart





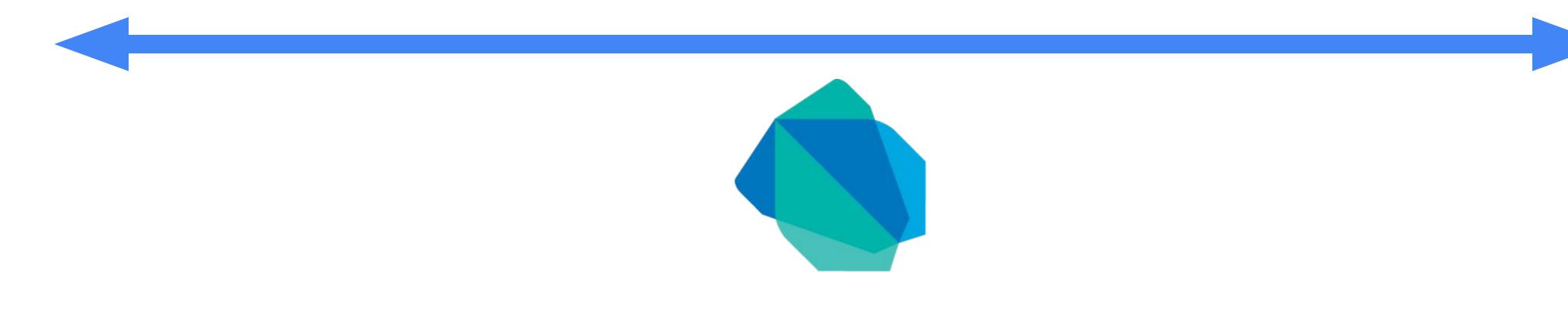
end-to-end Developer Experience for the web

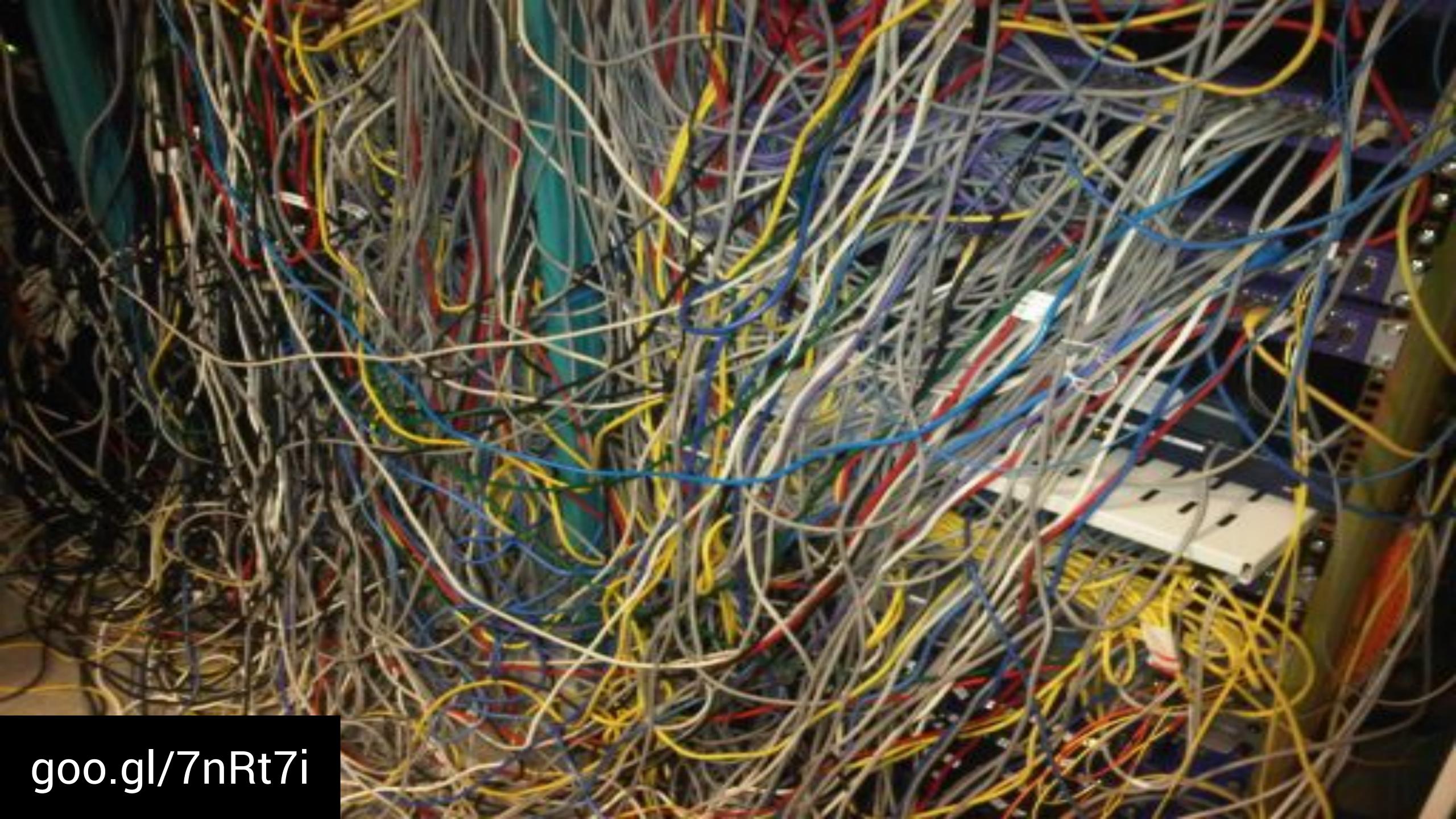






Demo Pretty cool context







Wish List

Structure
Smart Tools
Integration



Demo Hello, Dart

dartanalyzer

Static errors, warnings, and hints

pub serve

Development server. On-demand compilation.

dart2js

Compiles Dart into Javascript

Dart Editor

All of the tools under one roof.



"Dartium"

Chromium + Dart VM

Dart in the Browser

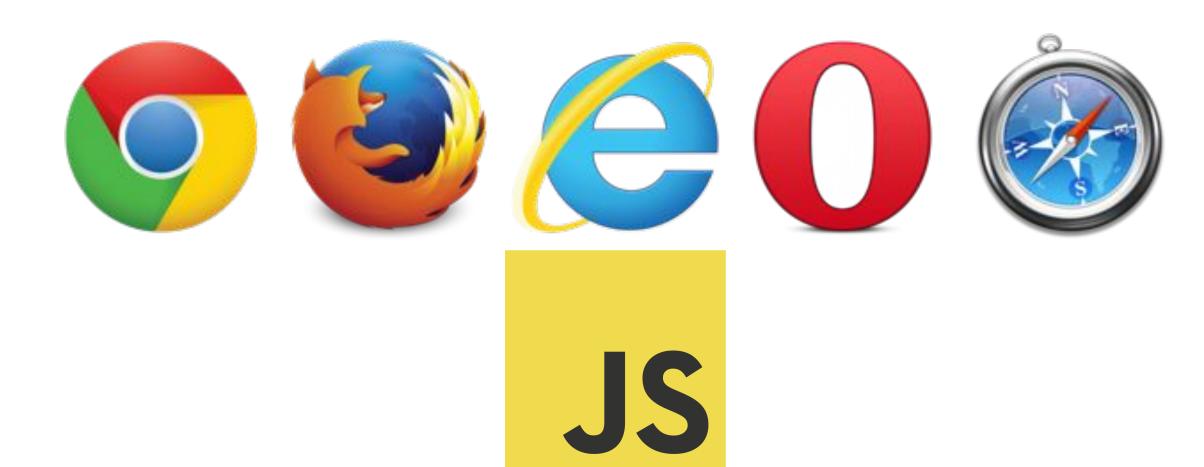
Part of the Dart SDK



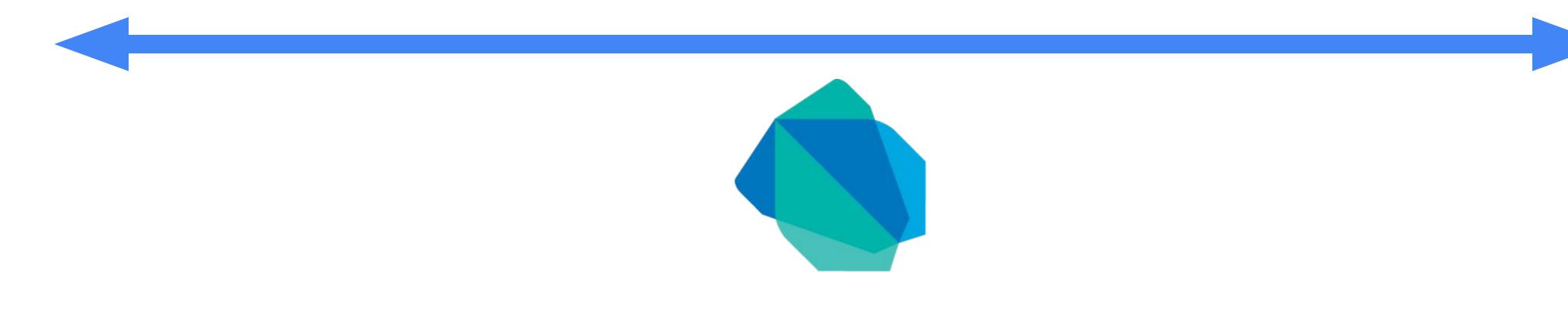
Develop Debug

Deploy



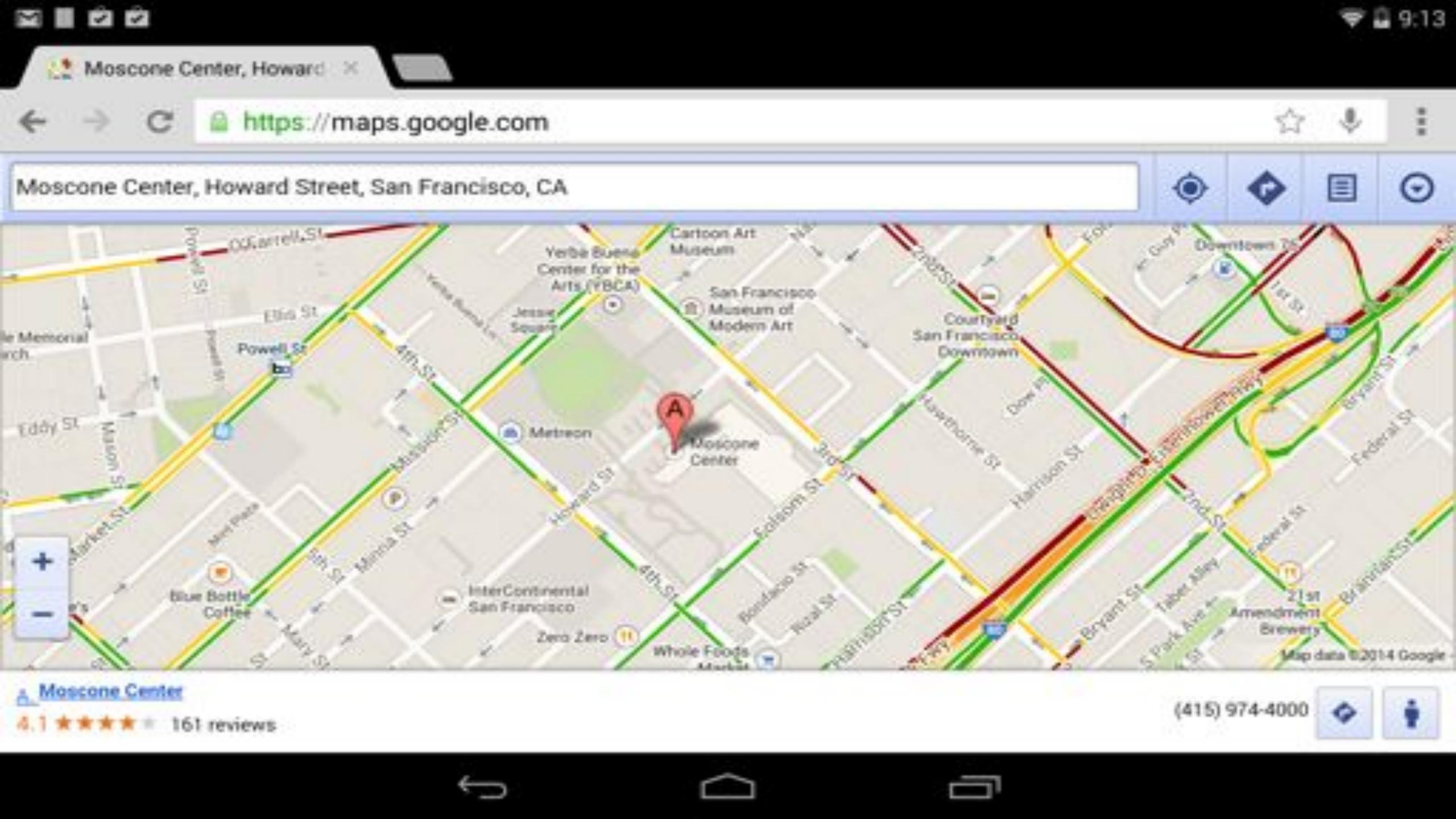












Rich UX!



Rational DX?



Datagrid	

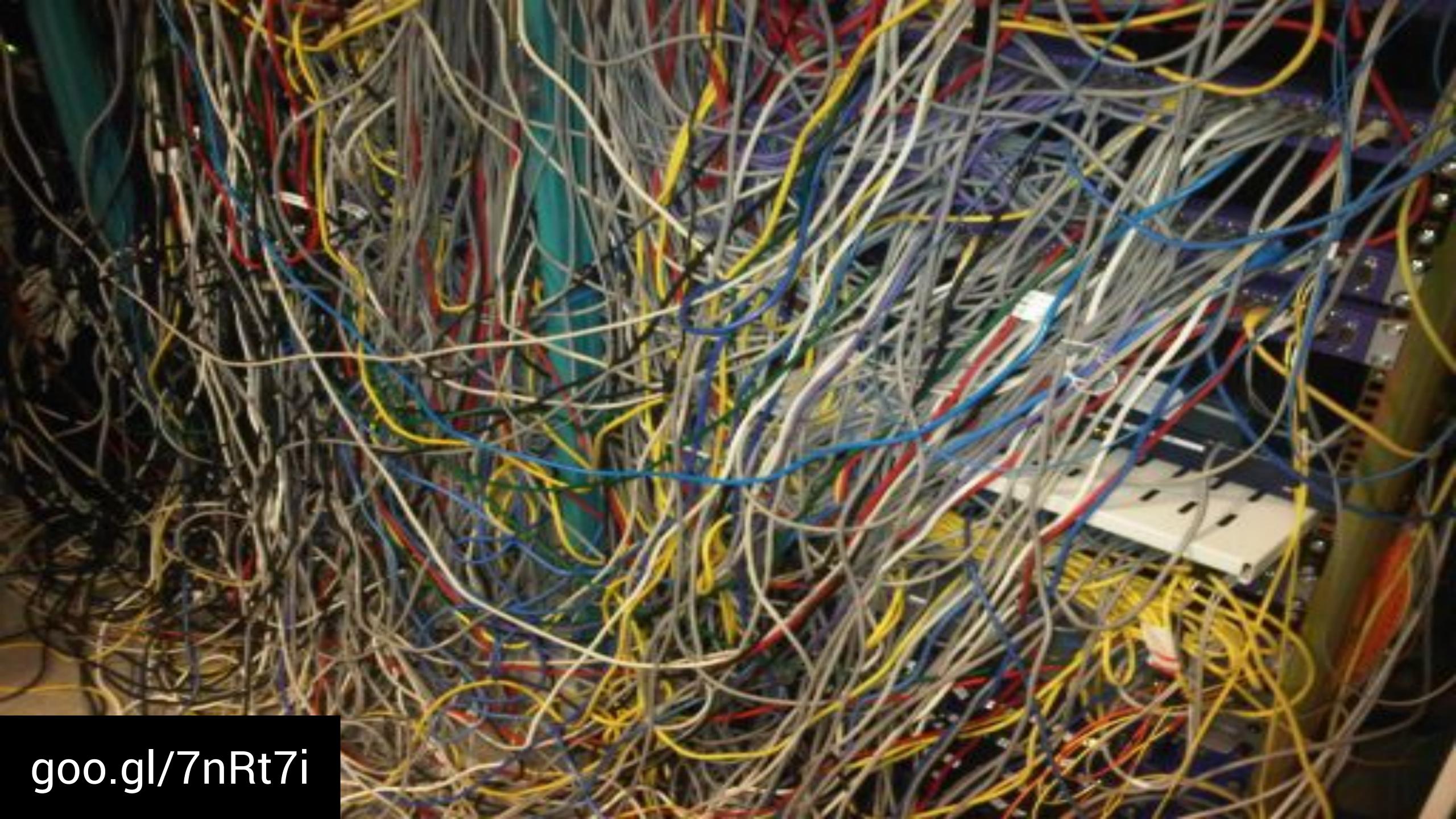


<div class='data-grid'>



<script> <style> <div>





<div class='data-grid'>

Not Rational





MyComponent extends BaseComponent



Visual Studio XCode Android Studio



<data-grid>

Rational



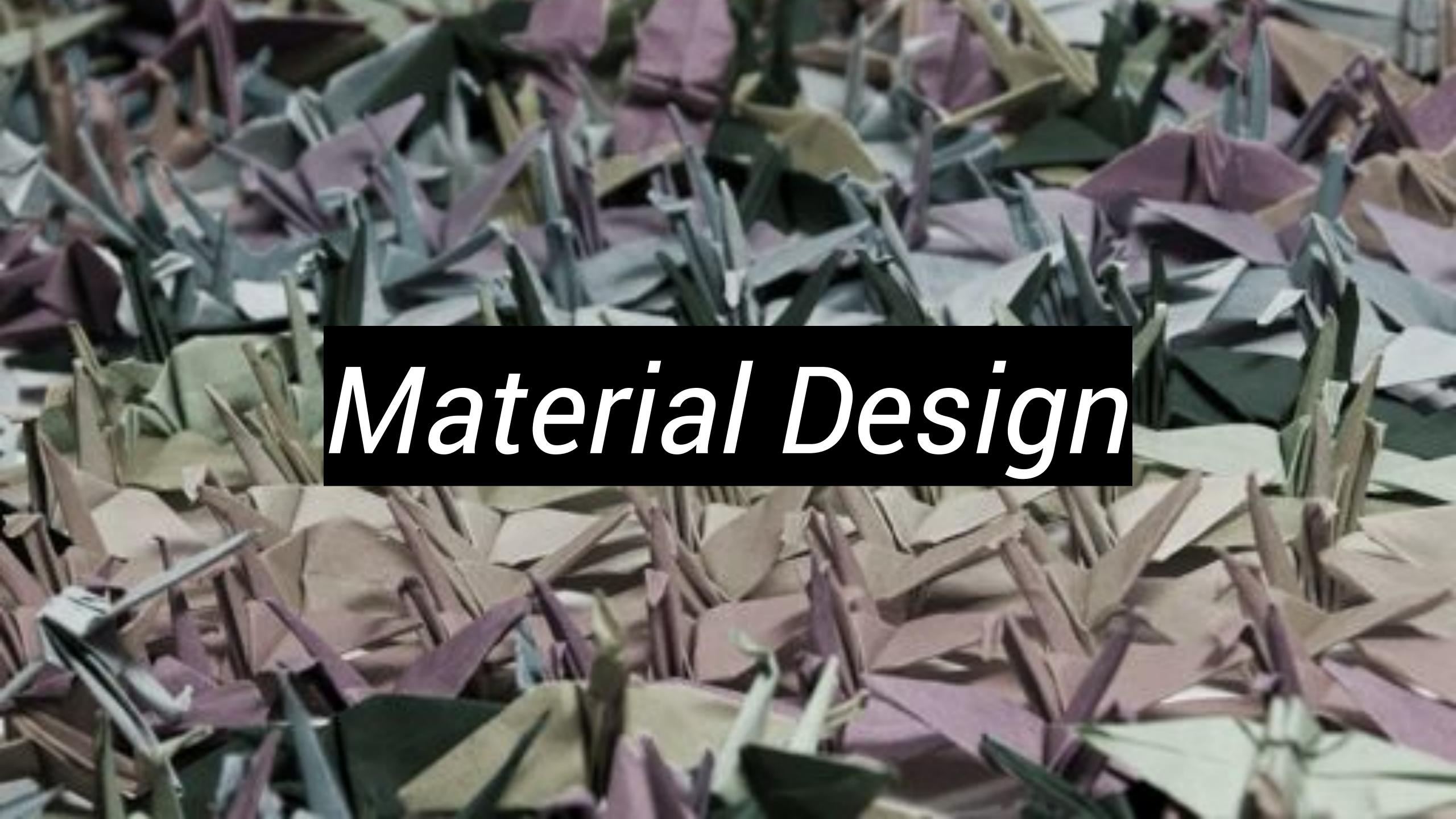




Shadow DOM Template Custom Element









Wish List

Structure
Easy to make
Easy to use
Easy to share



Demo Dart + Polymer + Paper

Paper Element is a Polymer Element is a Custom Element is a Element



pub.dartlang.org

core_elements paper_elements

beta















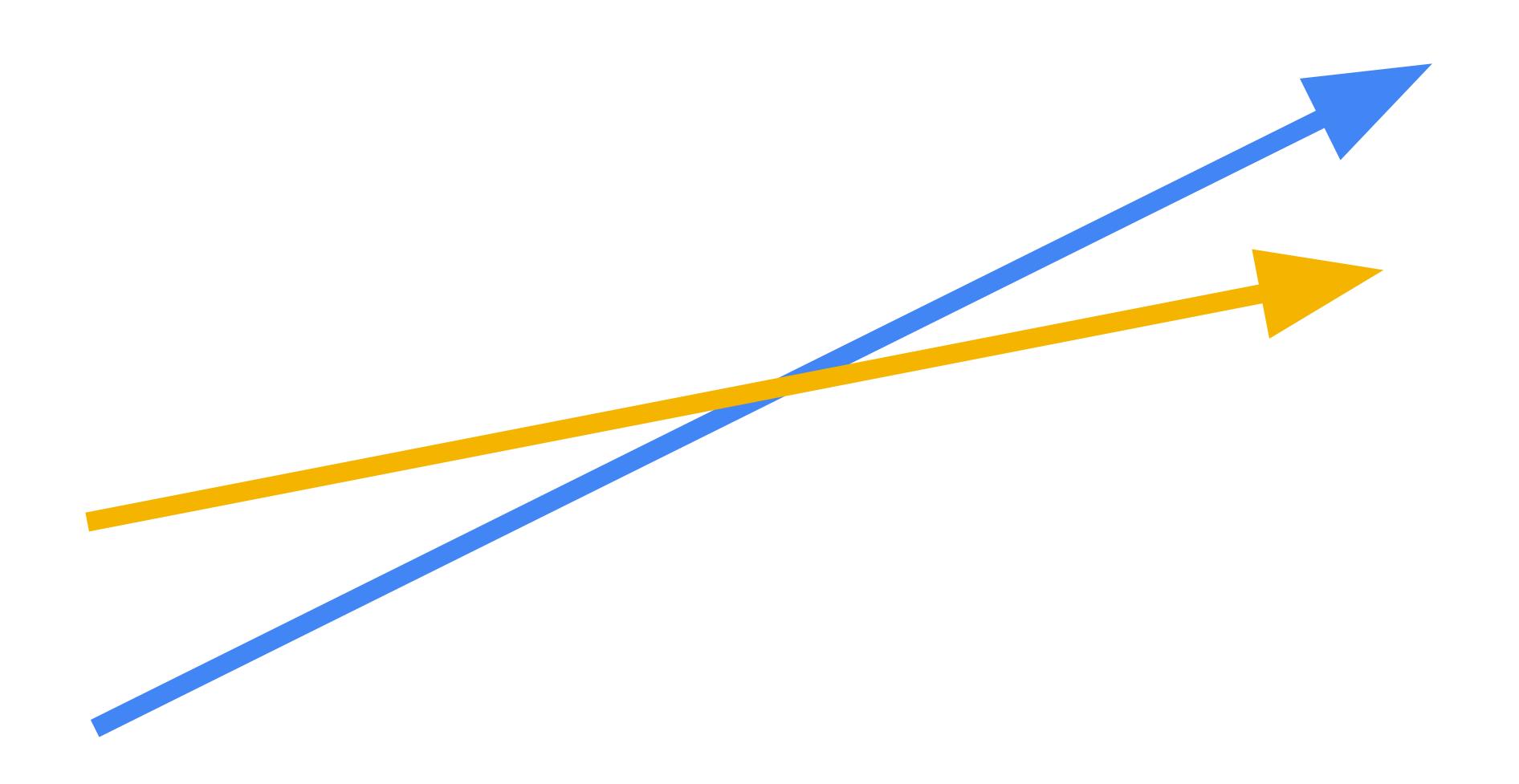










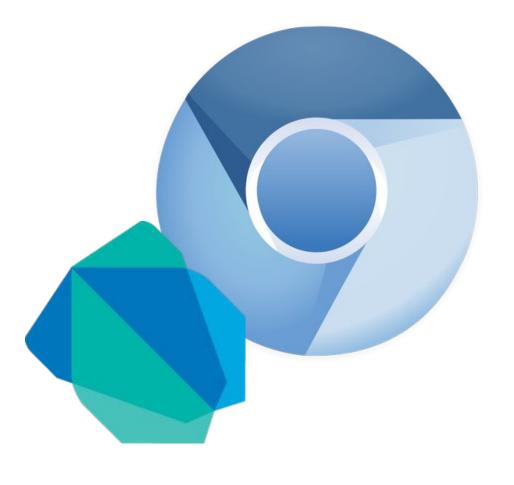




Mobile First











Dartium on Android Chrome tools Dart Editor



Demo Dart DX: Mobile

Dartium on Android Chrome tools Dart Editor



Today.

Dart V1.5

















Dart VIVI



app.dart

```
void main() => print('Hello, Dart!');
```

Shell

```
~/> dart app.dart
Hello, Dart!
```



dart2js
dartanalyzer
pub
docgen



dartio

stderr stdin stdout Directory File FileState HttpClient HttpRequest HttpResponse HttpServer IOSink Link Process SecureSocket Socket WebSocket



Dart I/O Performance

Tracking server-side performance, using the Dart VM and the dart io "library.





Google Cloud Platform

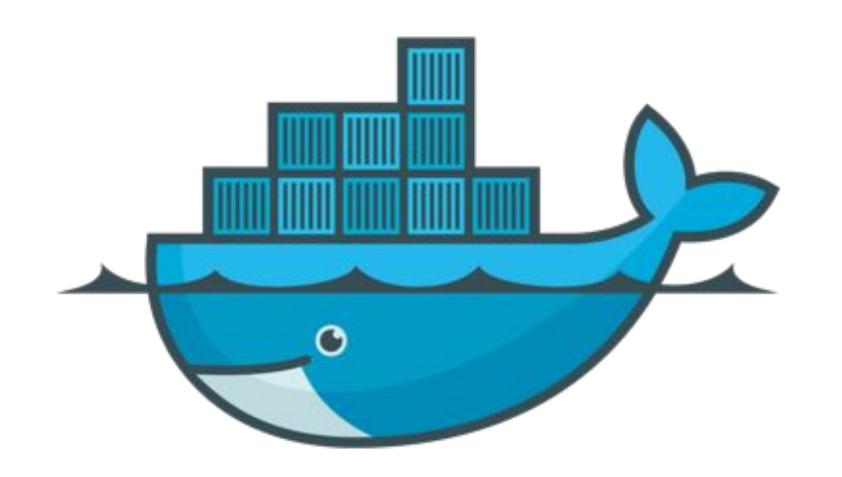




Google Compute Engine











Search: docker google cloud platform

github.com/kevmoo/docker-dart-sample





Google App Engine

Dev Server

Memcache

Data Store

Monitoring and Management



App Engine Custom Runtime

App Engine Features BYO Runtime

private beta

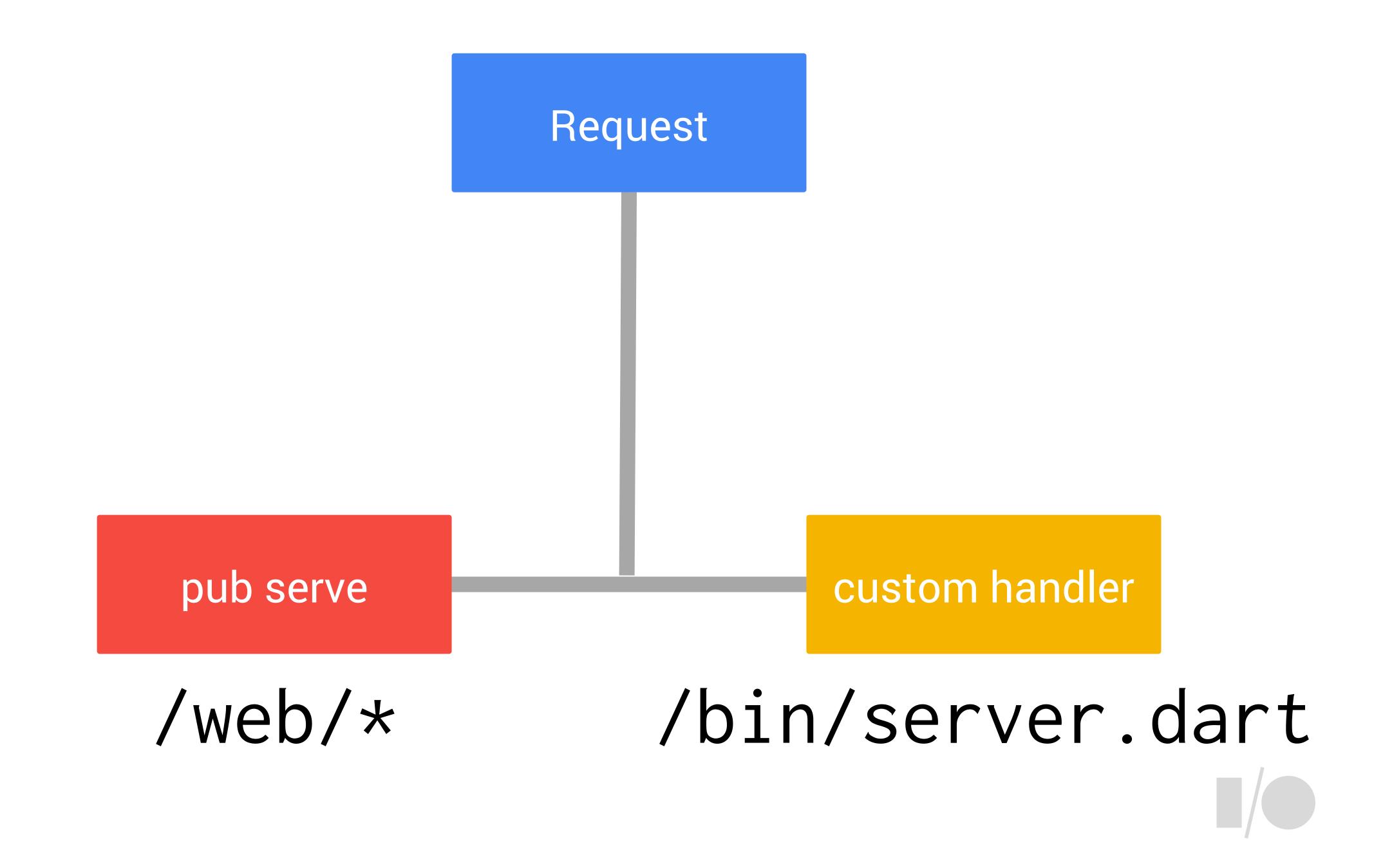


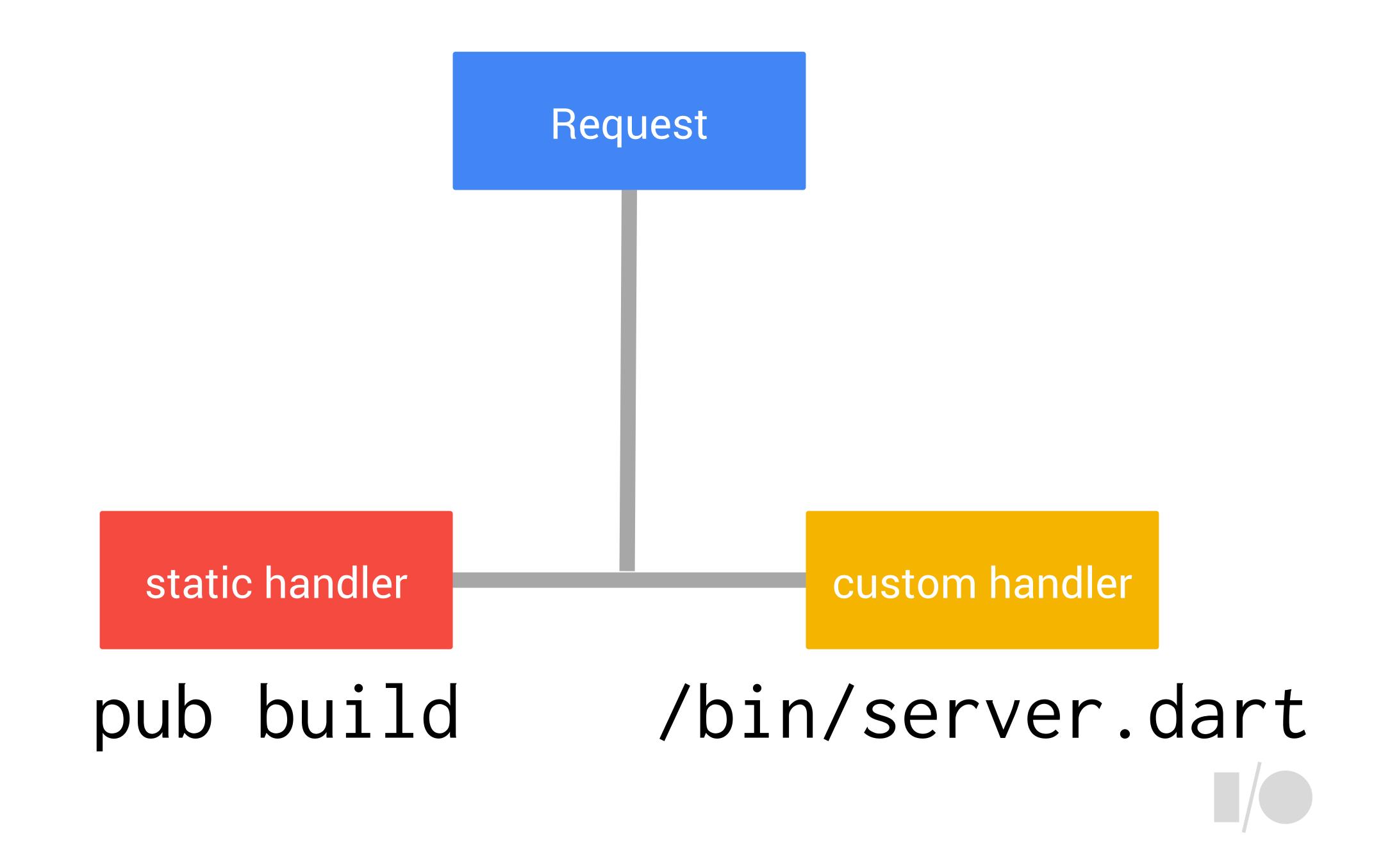


appengine
memcache
cloud_datastore



```
import 'dart:io';
import 'package:appengine/appengine.dart';
void main() {
  runAppEngine((HttpRequest request) {
    // handle request here
    var ds = context.services.data_store;
  });
```





```
@ModelMetadata(const GreetingDesc())
class Greeting extends Model {
  String author;
  String content;
 DateTime date;
class GreetingDesc extends ModelDescription {
  final id = const IntProperty();
  final author = const StringProperty();
  final content = const StringProperty();
  final date = const DateTimeProperty();
  const GreetingDesc() : super('Greeting');
```

Demo Dart Custom Runtime

App Engine Custom Runtime

App Engine Features BYO Runtime

private beta

dartlang.org/cloud

stay tuned









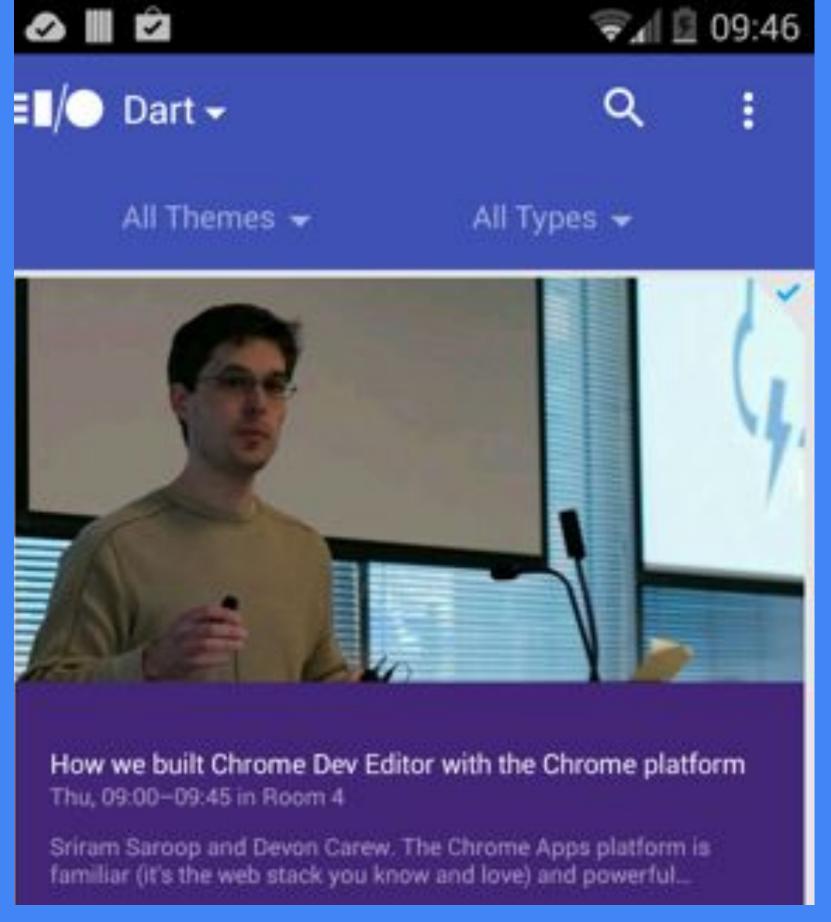




end-to-end Developer Experience for the web



What's next?



What's next?

All Things Dart dartlang.org

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youtube.com/GoogleDevelopers

Thank you!





FEEDBACK



Google |