VISUALIZING SOFTWARE PROJECTS IN JAVASCRIPT

Tim Disney



Google

programming is

programming is hard

programming is boring

programming is too hard

programming is like a dream

programming is a race between

programming is an art

programming is fun

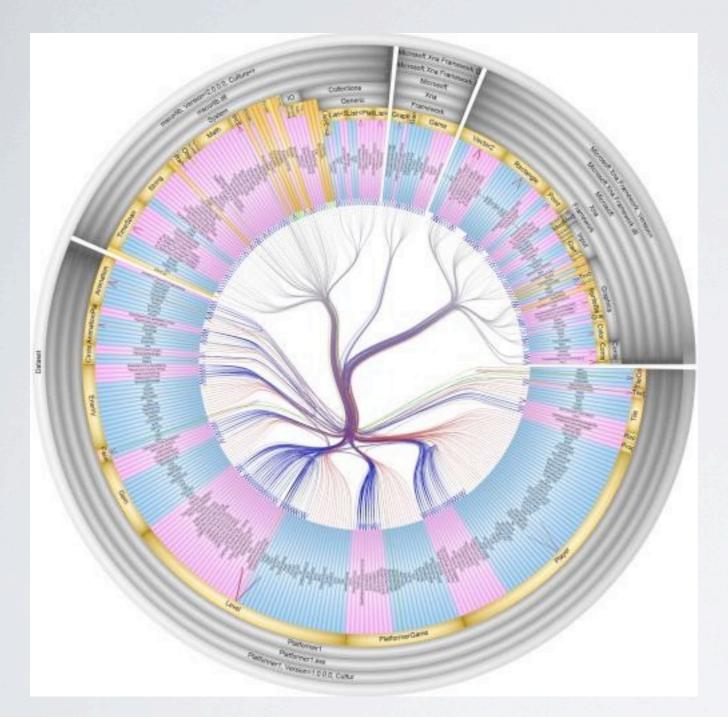
programming is awesome

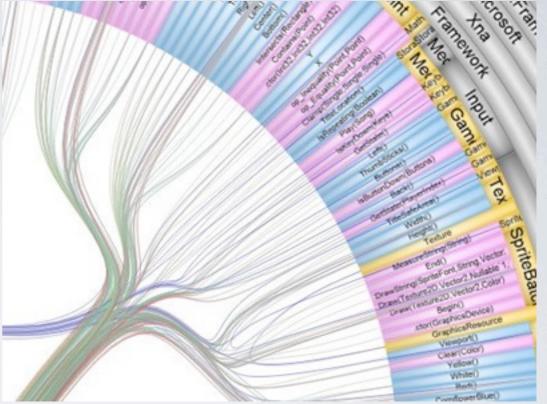
programming is dead

programming is difficult

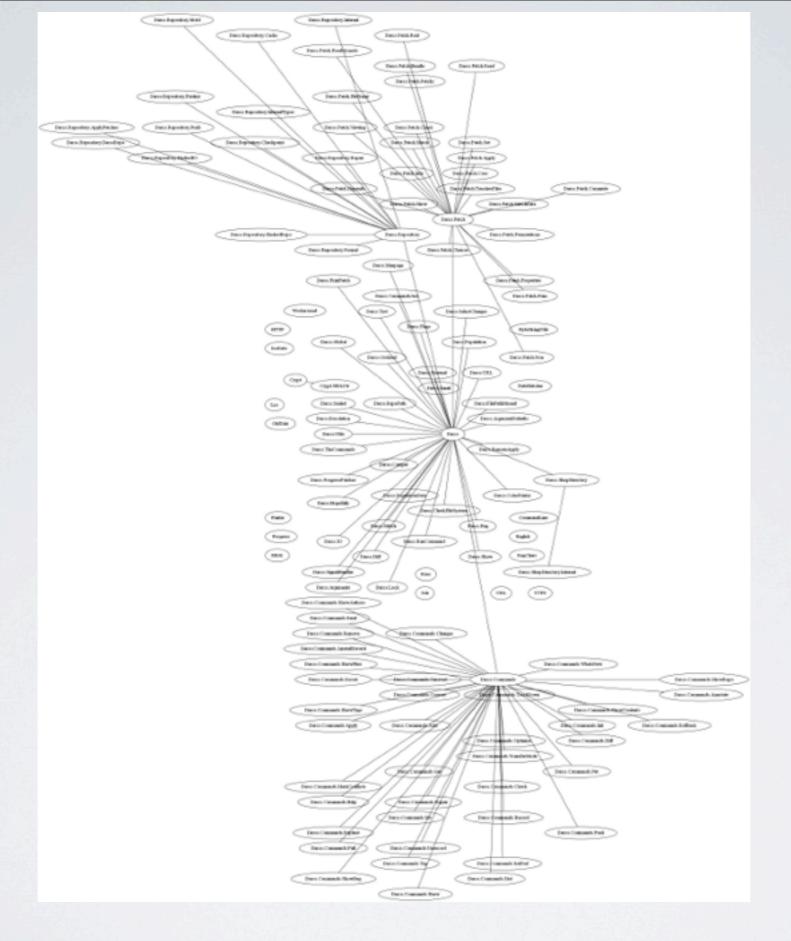
Google Search

I'm Feeling Lucky





SolidSX (Java/.net)



Haskell

JAVASCRIPT CRASH COURSE

- Very dynamic language
- No modules or packages
- All about objects
 - · no class/object distinction
 - objects are dictionaries/maps/hashes

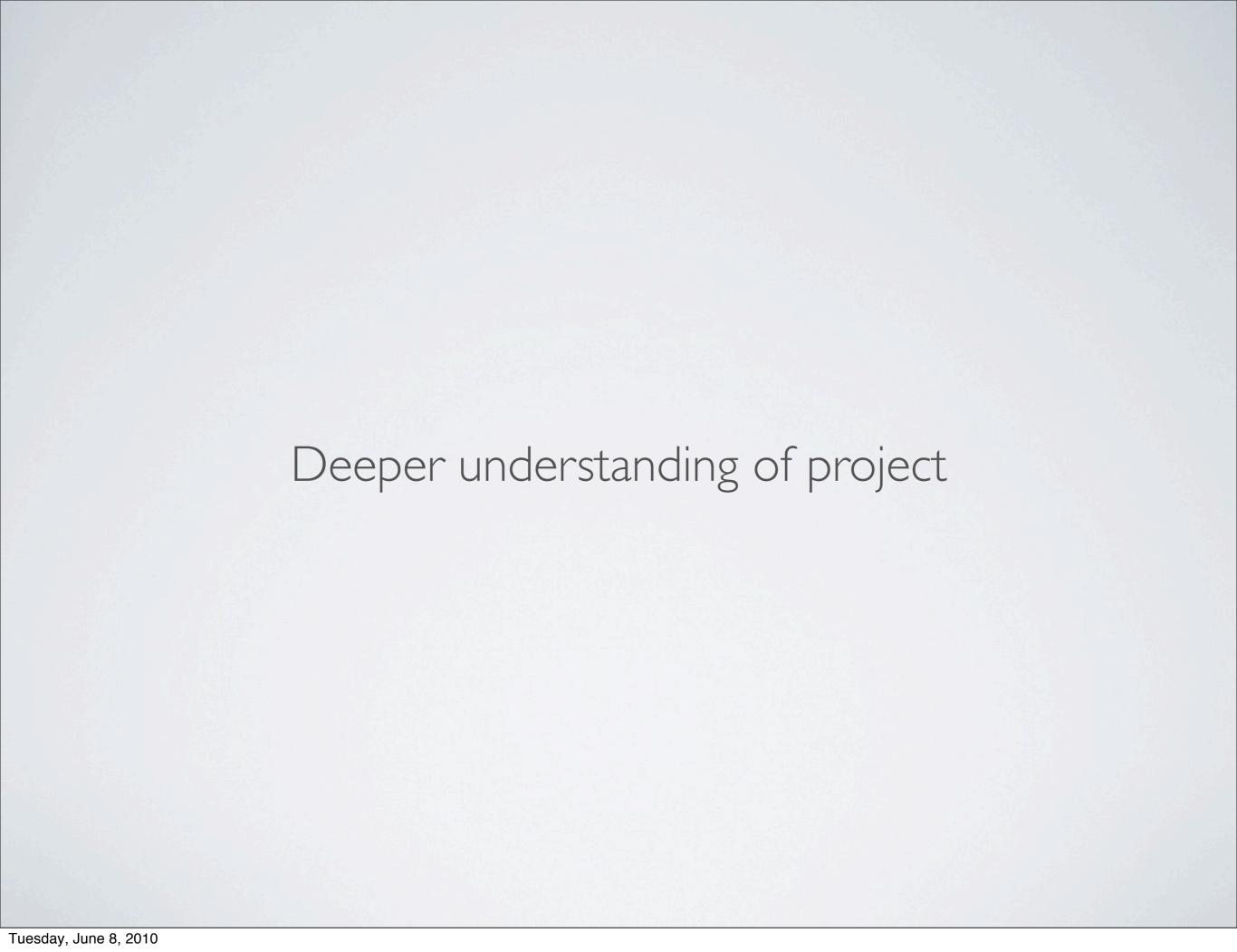
```
S top level script
var my0bj = {
  foo: "bar",
  baz: 42.34
myObj.foo; // "bar"
function myFun() {
  var localVar = 5;
  globalVar = 22;
```

```
JS top level script
```

```
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  foo: "bar",
  baz: 42.34
myObj.foo; // "bar"
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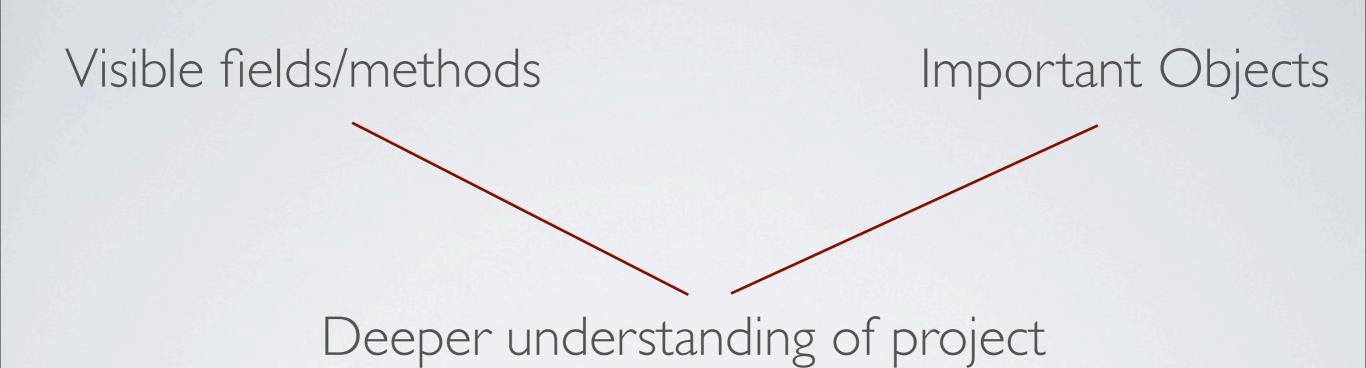
window object

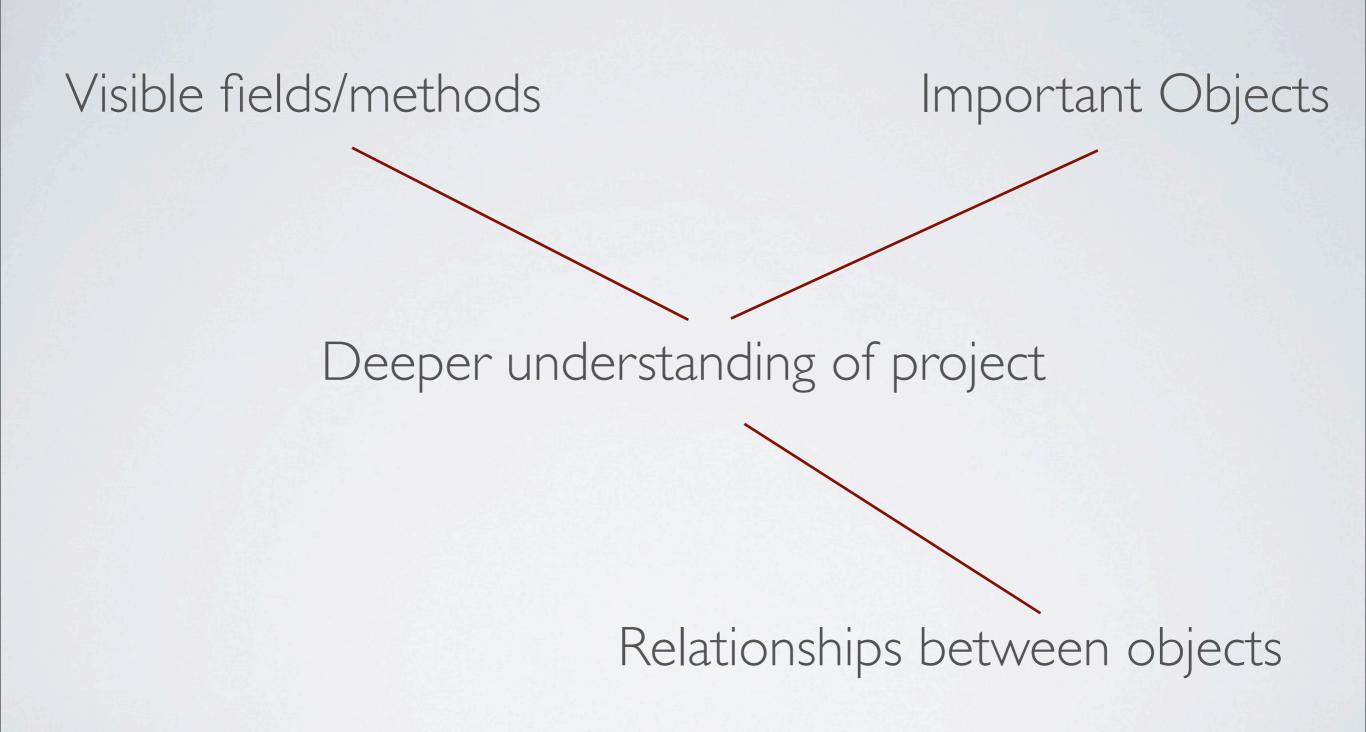
```
myObj: {
  foo: "bar",
  baz: 42.34
myFun: <function>,
globalVar: 22
```

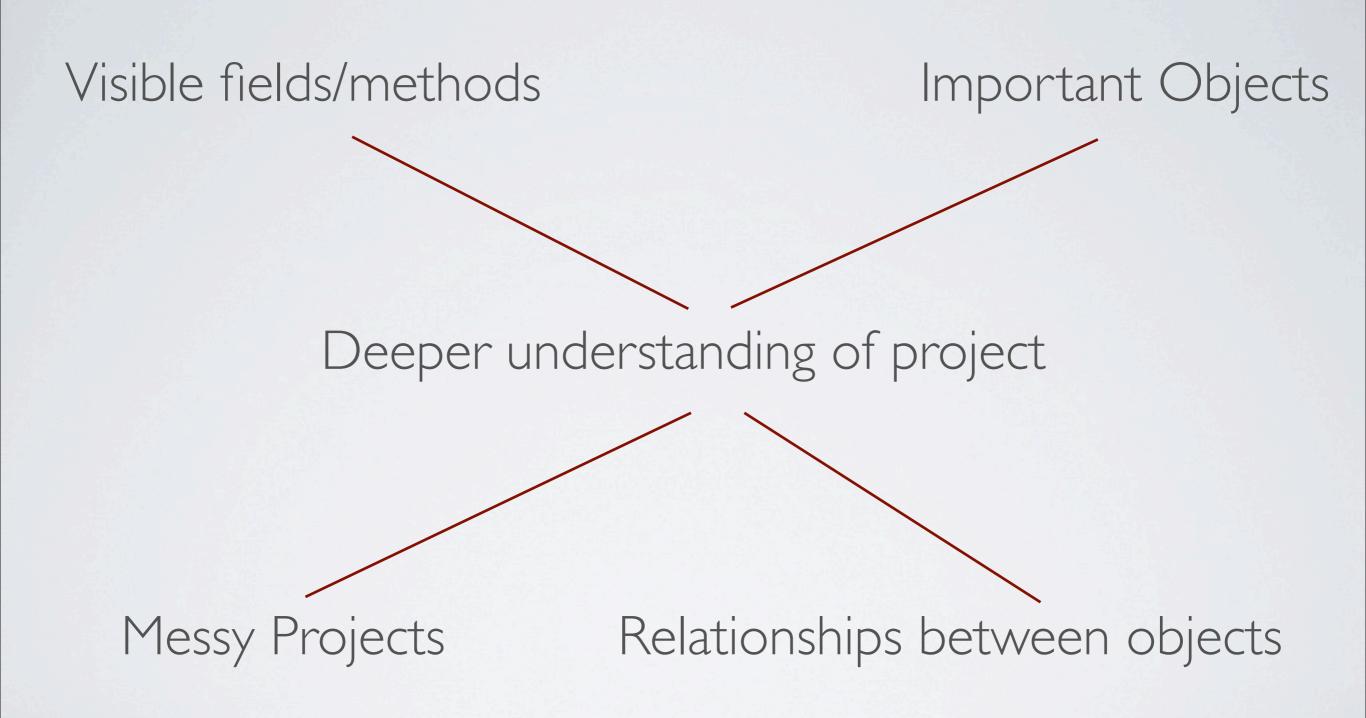


Important Objects

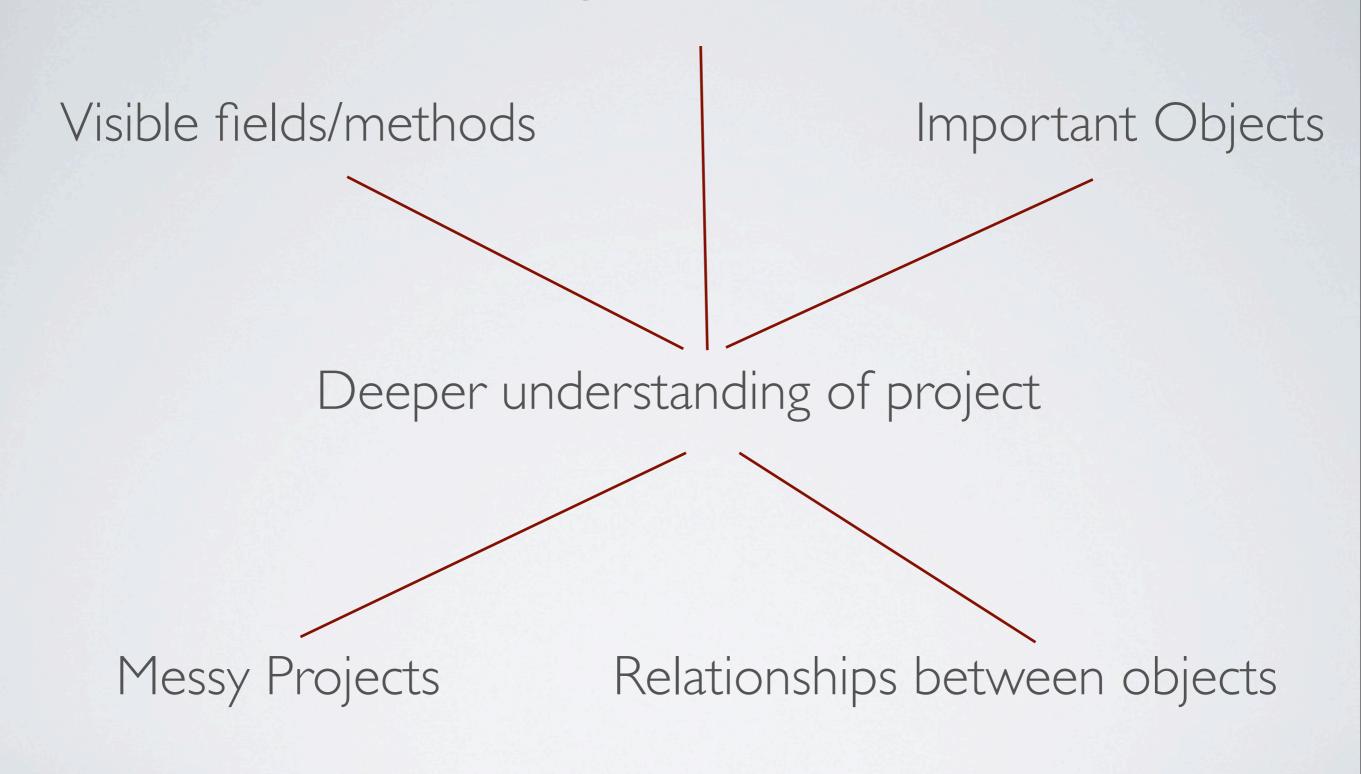
Deeper understanding of project







Change of structure



HOW

- Runs in the browser
- Walks the starting object
 - · by default window but can be changed in the interface
 - gathers object names and types (function, number, string)
- Passes resulting data to the JavaScript InfoVis Toolkit (JIT)

gatherData

window
-myObj
-foo
-bar
-myFun
-num

