

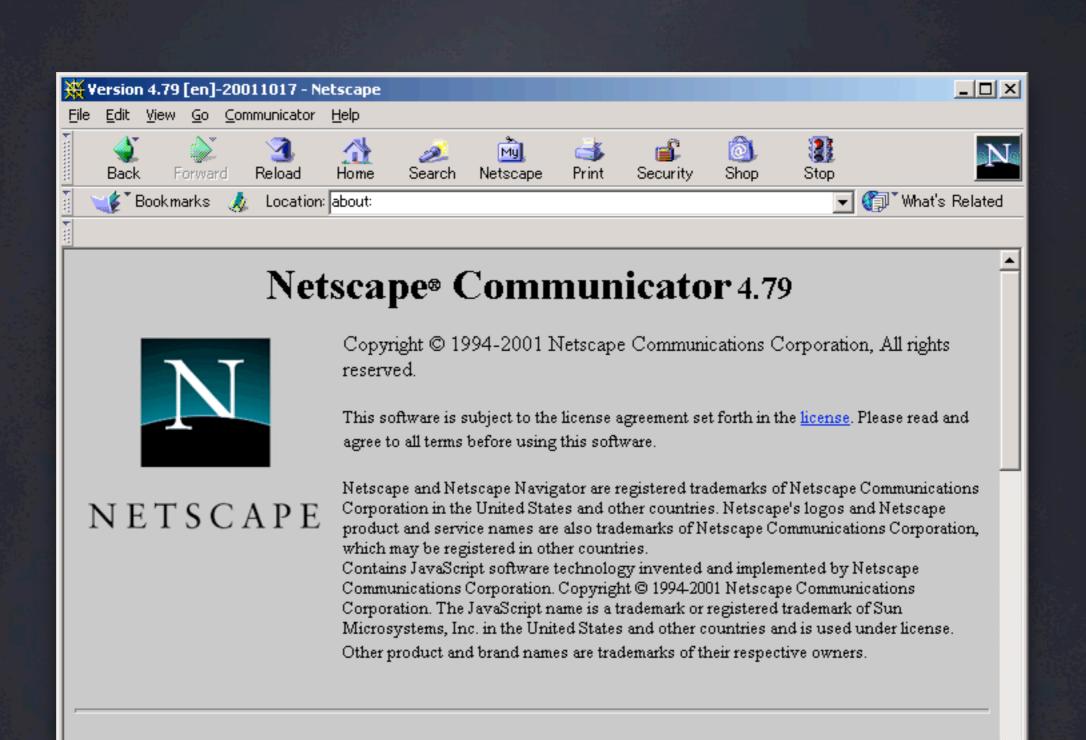
Bespin and the Open Web

Ben Galbraith and Dion Almaer



mozilla Laiss Concept series





Powered by Java TM technology from Sun Microsystems, Inc. Copyright @ 1992-1997 Sun



Contains VisiBroker for Java software, copyright © 1996-1998 Borland Software Corporation.

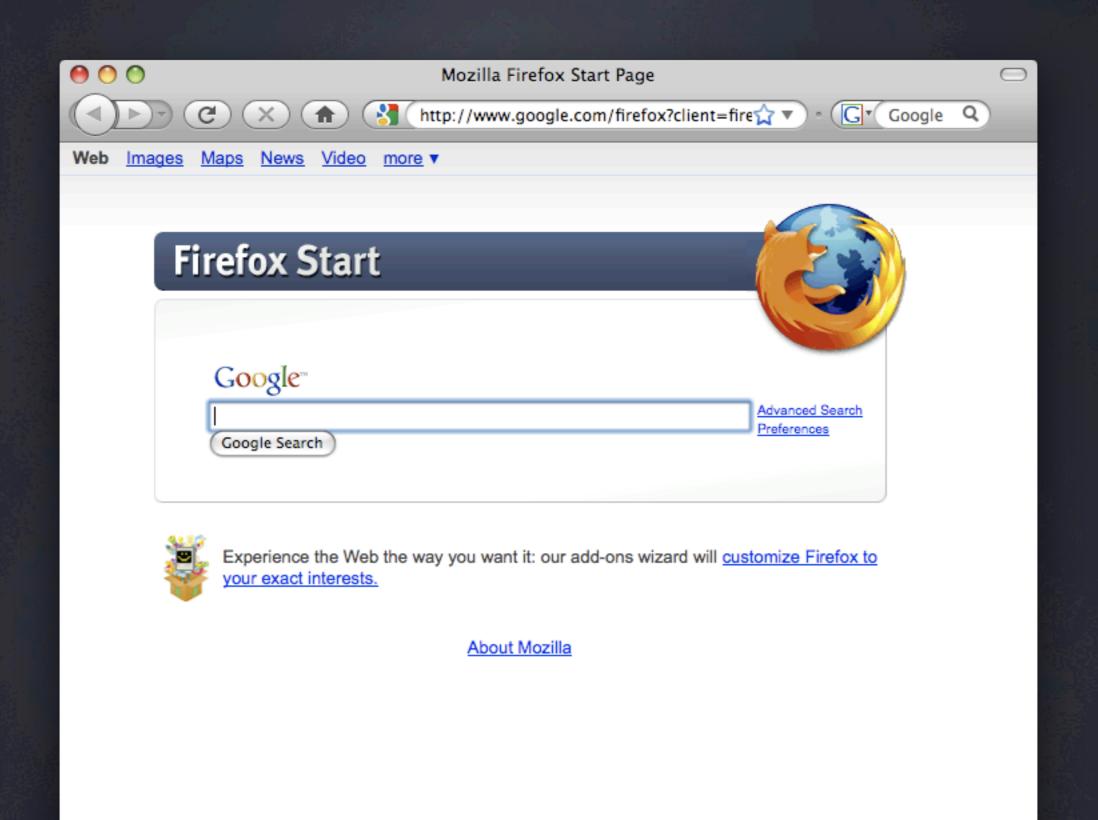


Document: Done

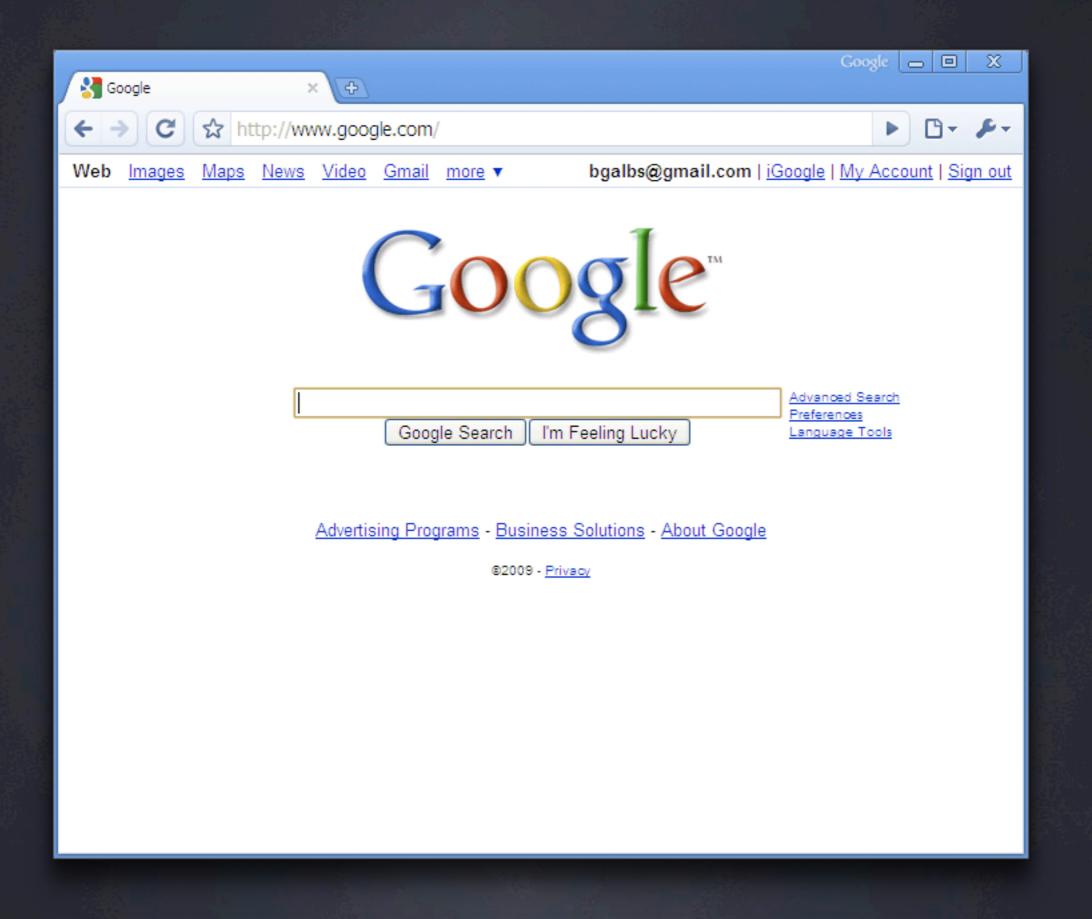








Done





Be cool to have a series of engines to show that they are getting better

```
var xhr = new XMLHttpRequest();
xhr.onreadystatechange = function() {
   if (xhr.readyState == 4) {
      processChange();
   }
}
xhr.open("GET", "/foo/bar");
xhr.send(null);
```

dōjō









The Editor of Our Dreams



Accessible from anywhere

Any device in any location



Simple to use, like Textmate

An editor, not an IDE



Wicked fast

Performance, performance



Rock-solid real-time collaboration, like SubEthaEdit



Integrated command-line, like vi

Fun like Quicksilver, social like Ubiquity



"Self-hosted" environment, like Emacs

For extreme extensibility, but with JavaScript!

Demo of Bespin

Revolutionary Technologies:



Canvas



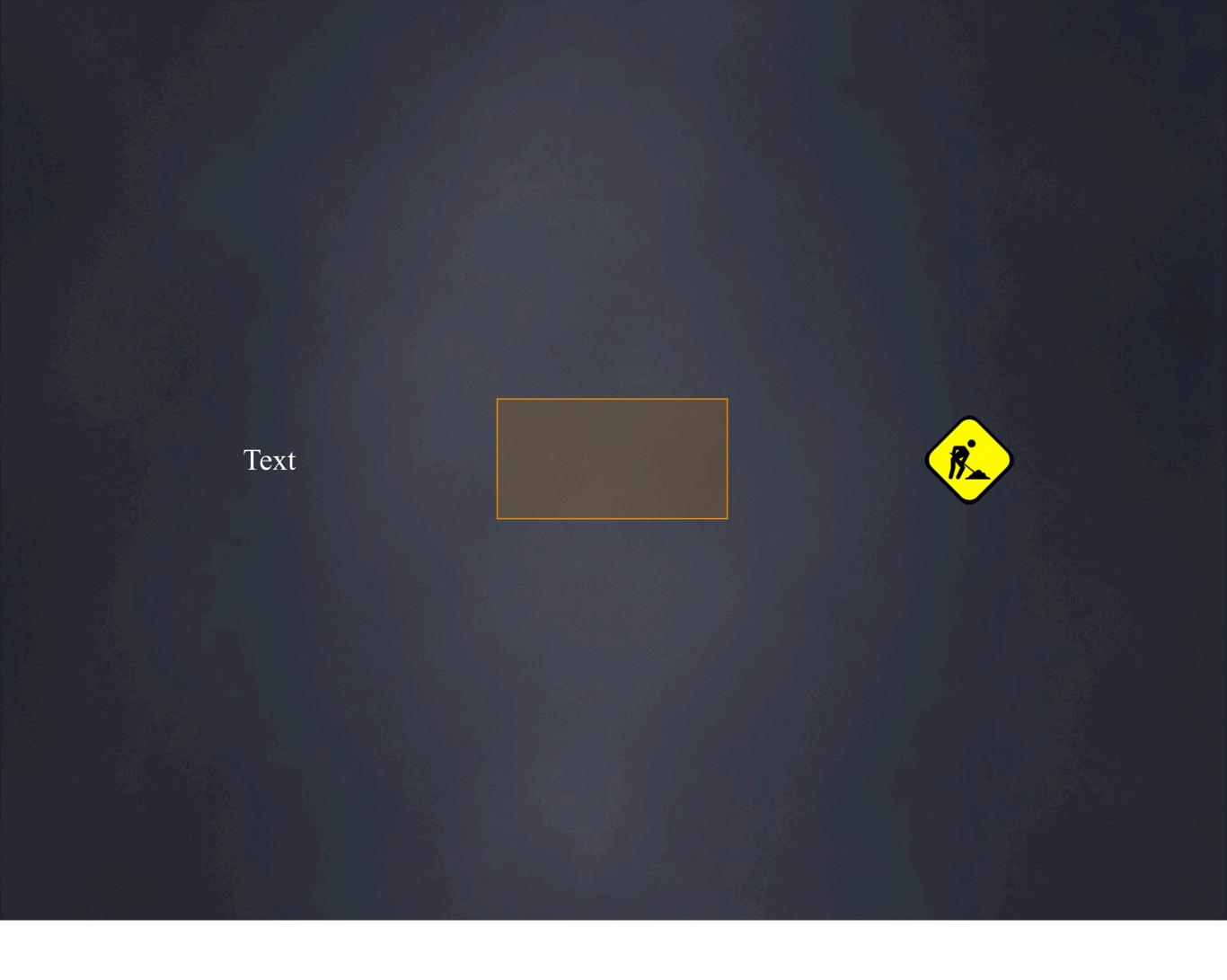
Fast JavaScript

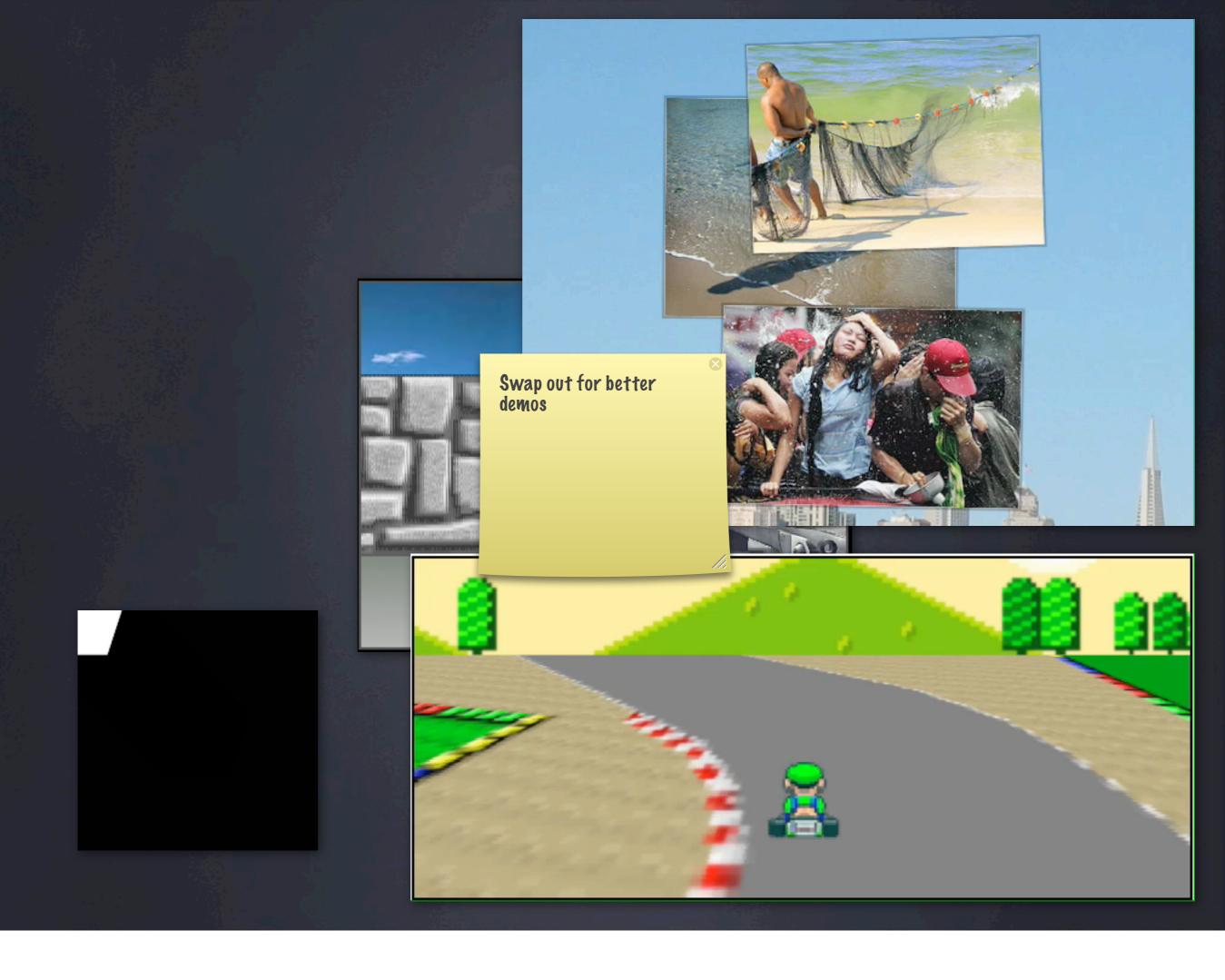


Web Workers



Desktop Integration







No start-up delay



Available on mobile devices today



Rendering fidelity with browser (especially important for typography)



No bridges necessary



Not a plug-in













Pemo of Bespin's canvas features

- editor
- pie menudashboard



Beta

Beta



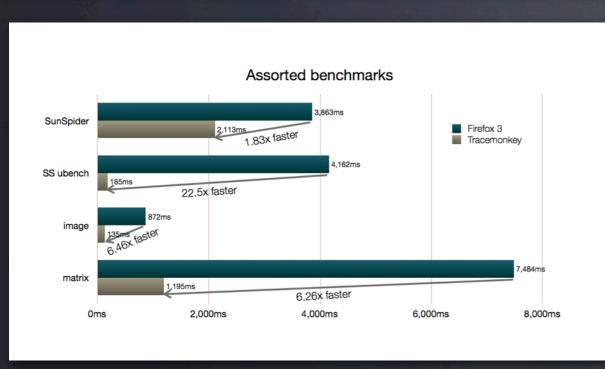
Chrome's V8

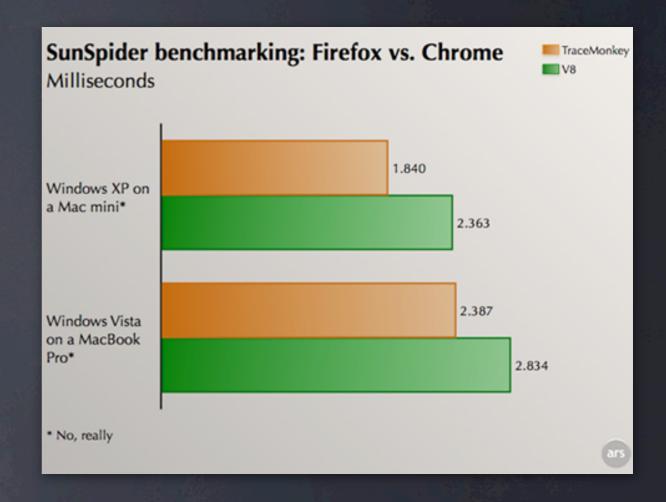
Safari's SquirrelFish Extreme

Firefox's TraceMonkey

Opera's Carakan

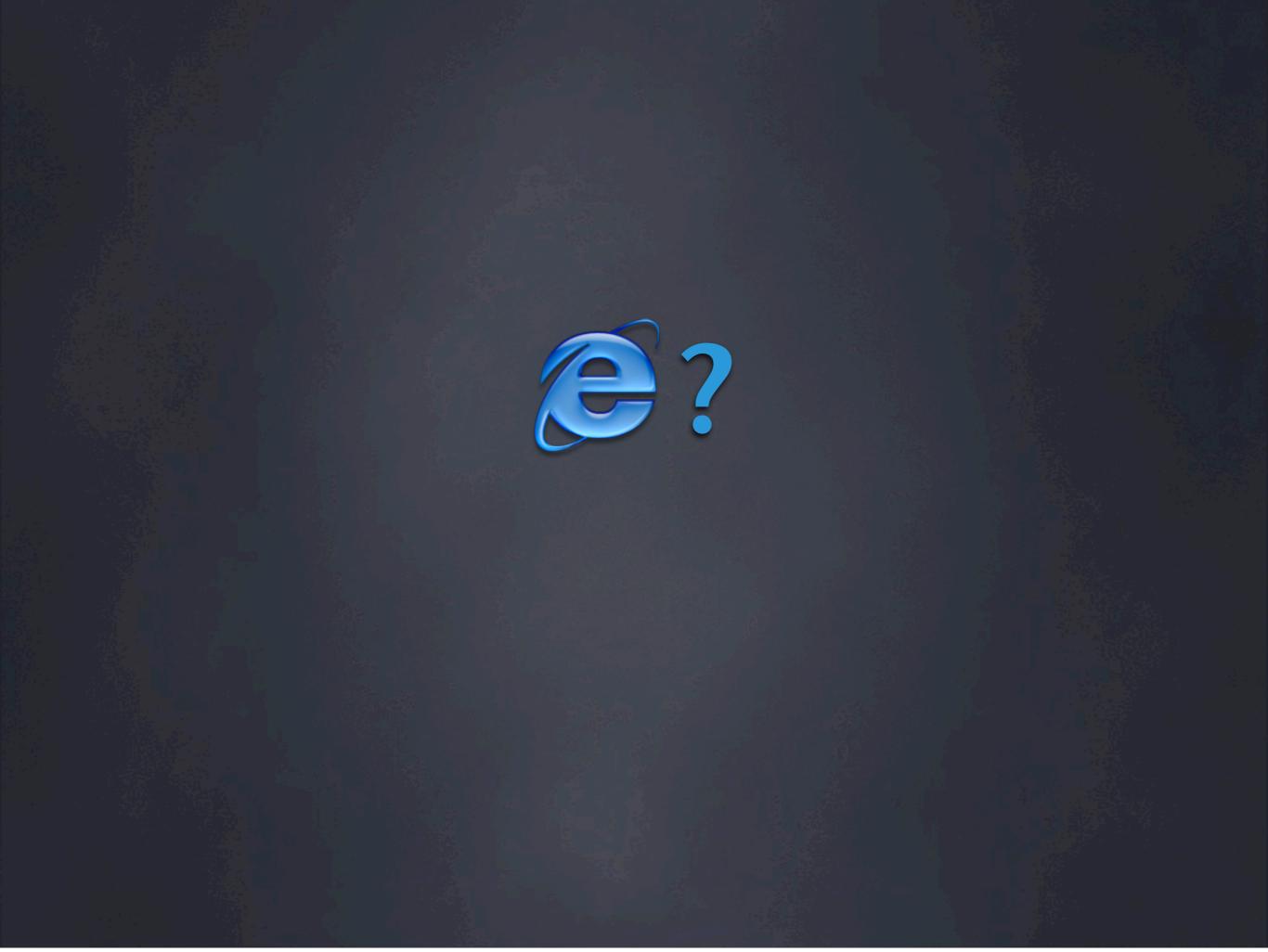






GC slide, focusing on either (a) generational collection or (b) garbage collection as a bottleneck

Maybe compare to JVM as state-of-the-art runtime





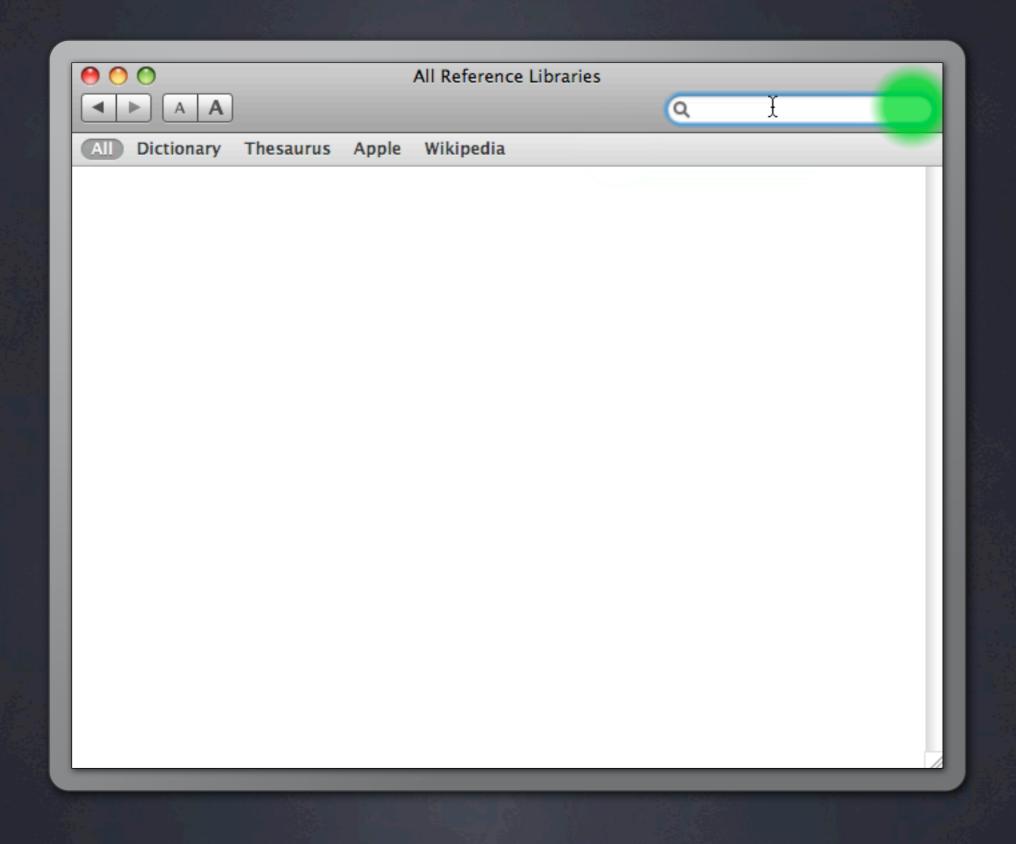
×

Find an app that uses fast JS:

- pixastic?
- our own photo editing demos

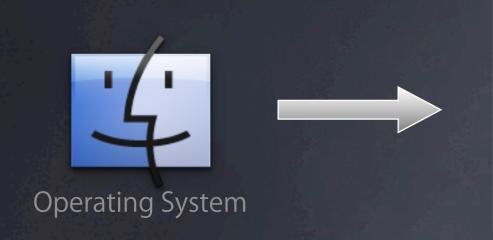
Identify app categories that benefit from this

Story of Bespin and client-side syntax highlighting, animated pies, etc.



Show unresponsive script warnings as another problem - include Safari bug that completely breaks your JS

Show the feedback.html demo



Mouse Moved

Mouse Pressed

Mouse Released

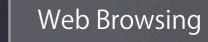
Key Pressed

Key Released

Event Queue

Browser









Browser











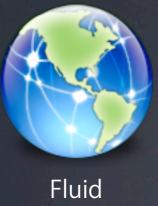


Pemo of iPhone canvas video keyframe substitution blue screen whatever thingie

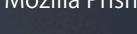
Pemo of client-side web worker syntax highlighter in Bespin

Talk about lack of sleep() or yield()











Adobe AIR



Appcelerator Titanium



Gears



PhoneGap



mozilla Laiss Jetpack



Pemo of Bespin Jetpack integration

Revolutionary Technologies:



Canvas



Fast JavaScript



Web Workers



Desktop Integration



