

in native apps

allen pike
steamclock software



steamclock
software



build
delightful
apps.

embed a
javascript
runtime.

embrace our
platforms.

enable

tinkering.

render

native

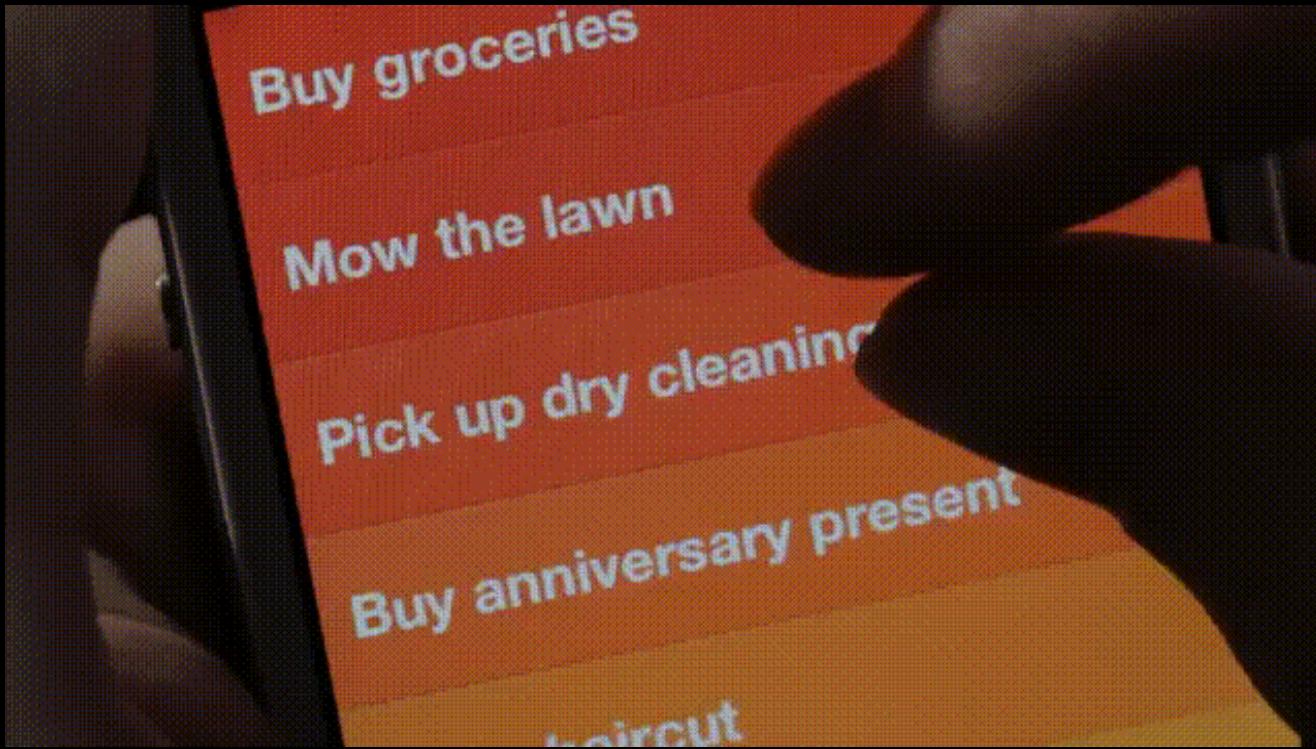
open gl.

mix

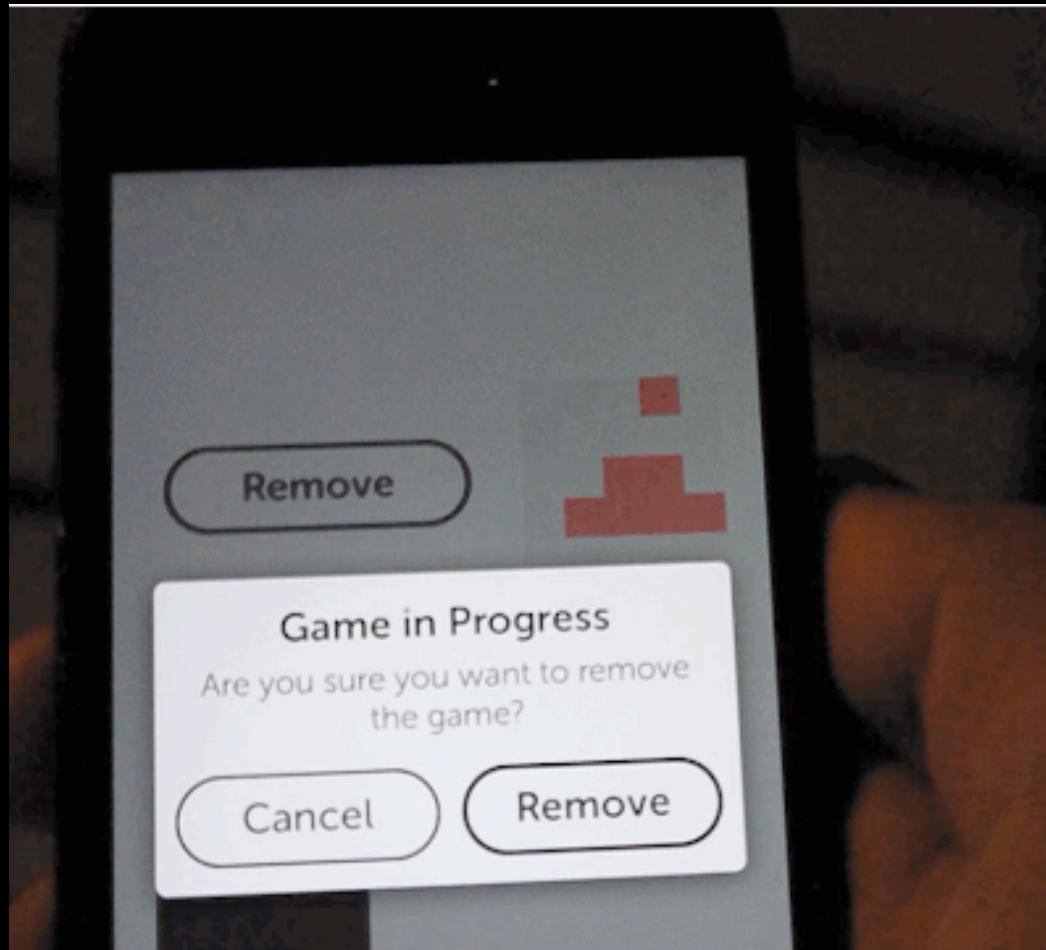
javascript
and native.

share
javascript
in native apps.

build
delightful
apps.









Blow people's minds.

embed a
javascript
runtime.

```
git clone git://github.com/v8/v8.git
```



V8
V8 JavaScript Engine

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BuildingWithGYP

Instructions to build V8 using GYP

Updated Jul 1, 2013 by [danno@chromium.org](#)

Build issues? File a bug at [code.google.com/p/v8/issues](#) or ask for help on [v8-users@googlegroups.com](#).

Building V8

V8 is built with the help of [GYP](#). GYP is a meta build system of sorts, as it generates build files for a number of other build systems. How you build therefore depends on what "back-end" build system and compiler you're using. The instructions below assume that you already have a [checkout of V8](#).

Prerequisite: Installing GYP

First, you need GYP itself. On systems that have `make` (Linux, Mac, most other Unixes), this is as easy as:

```
make dependencies
```

Otherwise (e.g. on Windows), you need to get GYP manually. From the root of your V8 checkout, run:

```
svn co http://gyp.googlecode.com/svn/trunk build/gyp
```

Building

GCC + make

Requires GNU make 3.81 or later. Should work with any GCC 4.x version.

https://developers.google.com/v8/embed



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ajpike@gmail.com

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Chrome V8  33

Introduction

Getting Started

Embedder's Guide

Note: The handle stack is not part of the C++ call stack, but the handle scopes are embedded in the C++ stack. Handle scopes can only be stack-allocated, not allocated with `new`.

Resources

Terms of Service

Contents

[Audience](#)

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WebKit / webkit

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Unwatch 110

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Unofficial mirror of the WebKit SVN repository http://www.webkit.org/

10,000+ commits

5 branches

0 releases

0 contributors



branch: master

webkit /

[curl] Use utf8 for headers in CurlDownload.

commit-queue@webkit.org authored 2 hours ago

latest commit 585f3eae7c

Examples Rollback 88521 2 years ago

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ManualTests Background doesn't fully repaint when body has margins. a month ago

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.gitattributes Tell git-archive to not export .gitattributes and .gitignore a year ago

.gitignore Modify .gitignore file to remove entries for chromium generated files 5 months ago

.qmake.conf [Qt] Workaround to make syncqt run and generate forwarding headers... a month ago

CMakeLists.txt [CMake] Fix detection of x86_64 platform with MSVC 9 days ago

ChangeLog [GTK] Remove Gail dependency from build system for GTK3 a day ago

Code

Pull Requests 0

Pulse

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Network

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[SSH](#), or [Subversion](#).

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WebKit / webkit

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106

[Star](#)

558

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History for [webkit / Source / JavaScriptCore / API / JSContext.mm](#)

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ggaren@apple.com authored 4 months ago

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mhahnenberg@apple.com authored 7 months ago

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Objective-C API: Need a good way to

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Mar 04, 2013



Remove contextInternalContext from

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← → C GitHub, Inc. [US] https://github.com/steamclock/javascriptcore-api-test/stargazers

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apike

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Stargazers



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Ruby, JavaScript

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JavaScript, Ruby, CSS

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CoffeeScript, JavaScript, C++

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Coty Rosenblath
Ruby, Shell, VimL

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Objective-C, JavaScript, Pyt...

+ Follow

NDA

NDA





JavaScriptCore.framework

let JS

be JS

In JavaScript

```
var multiply = function(arg1, arg2) {  
    return arg1 * arg2;  
}
```

In Objective-C

In JavaScript

```
var multiply = function(arg1, arg2) {  
    return arg1 * arg2;  
}
```

In Objective-C

```
[jsContext evaluateScript:jsFile];
```

```
JSValue* jsMultiply = jsContext[@"multiply"];  
JSValue* jsResult =  
    [jsMultiply callWithArguments:@[@5, @17]];
```

In Objective-C

```
int (^multiply)(int, int) =  
^ (int arg1, int arg2) {  
    return arg1 * arg2;  
};
```

```
jsContext[@"multiply"] = multiply;
```

In JavaScript

In Objective-C

```
int (^multiply)(int, int) =  
^ (int arg1, int arg2) {  
    return arg1 * arg2;  
};
```

```
jsContext[@"multiply"] = multiply;
```

In JavaScript

```
var result = multiply(1, 2);
```

JSContext

Load a JavaScript VM

JSExport

Objective-C to JavaScript

JSValue

JavaScript to Objective-C

JavaScriptCore

- WebView
 - + Nice bridging
 - + Reference cycles
 - + More flexibility
-
- = Delightful possibilities

embrace our
platforms.

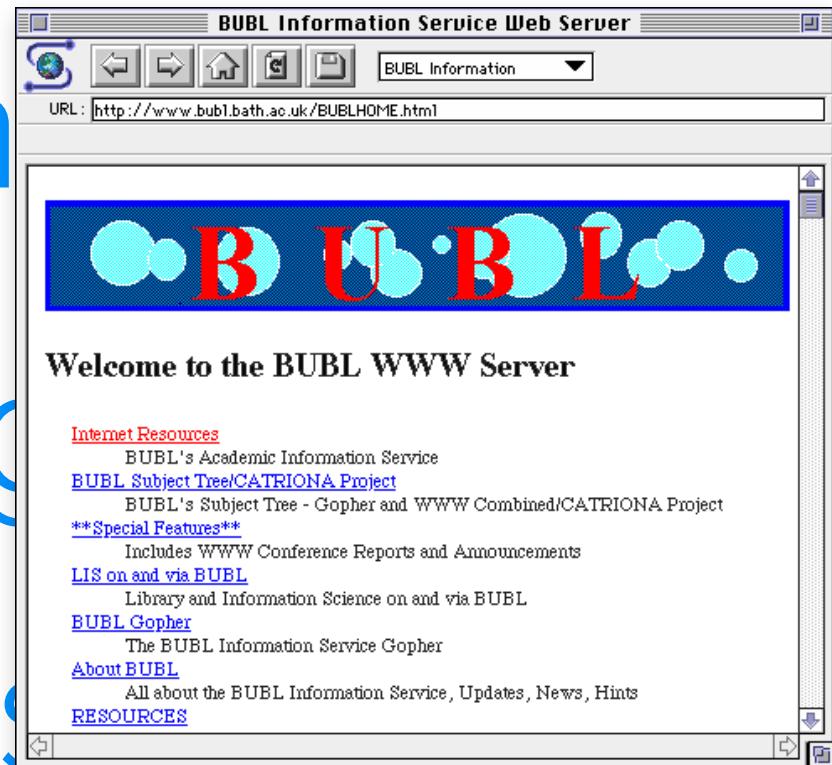
white backgrounds

type-heavy layout

focus on images

flat rectangles

blue text you can click



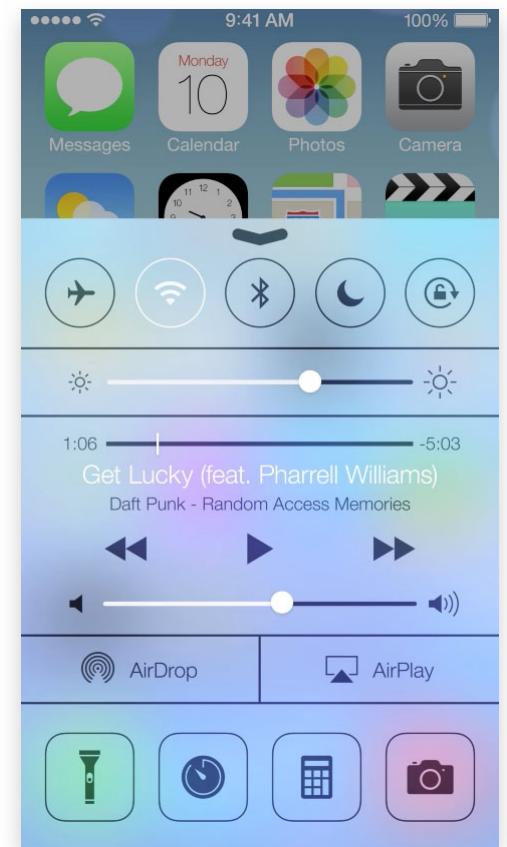
physics-based gestures

beautiful 3d

gorgeous scrollin

real-time blur

highly responsive touch



Verizon LTE 5:47 PM 98%



"Washington is a study in juvenile petulance," writes @AlexCast for @CNNOpinion. on.cnn.com/ Do you agree?



Rebecca Hains @RCHains
Many thanks to Toward The for recommending my book! 2eogATGj6



The New York Times @nyti.
Skepticism Surrounds Resu of Nuclear Talks With Iran nyt.co/ZEVx84



broadwayworld @broadway.
STAGE TUBE: Oscar Winner Hathaway & Lawrence Chat GMA... bit.ly/XX1DKg



runDisney @runDisney
Thanks for attending #Prince Weekend and #PrincessHalfMeetup, AliVincentL.twimgpic.com/cf



Home



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Discover

••••• AT&T 9:23 AM



Emanuel Sá @emanuelsa

Playing a bit with Android... widgets you can recommend Store is basically just lots of clocks/weather widgets.

6m



Dave Shea @mezzoblue

Read an article. Agreed with comment. Time to shut down internet.



Federico Viticci @viticci

"If you like..." - interesting App Store team this week: pic.twitter.com/ub5axAAKh



Geoff Teehan @gt

Great image showing just how the home screen for iOS has progressed. Surely they have killer concepts. <http://twitpic.com/cwyz3s>



Emanuel Sá @emanuelsa

Playing a bit with Android...



Twitter Home Person Search Compose More

Home At #



Erica Anderson @EricaAmerica

Lady Gaga is such a boss--counteracted negativity of her upcoming album, ARTPOP, with this video: rollingstone.com/magazine

Tweets photos, articles, conversations



rob_blog @rob_blog

A highly entertaining video by @aaronpaul_8 mom Right: youtube.com/watch?v=_



Kevin Weil @kevinweil

WHOA. First ever human brain interface done at @UW--using to control someone else's hand washington.edu/news/2013/0

MESSL01

timeline mention



bfrank

16 hours
Hockey time! (@ Yerba Buena Ice Skating & Bowling Center) 4sq.com/KoORy5



gracelee

16 hours
Love when it brings your family to work day - thx @TwitterSF pic.twitter.com/jj5k6uxx



amy

16 hours
Just drove past Pier 29- that was one intense fire! pic.twitter.com/7Jj21YJ5



miradu

16 hours
The people next to me are comparing the number of likes they get on their facebook posts



miradu

17 hours
Party in the aquarium pic.twitter.com/LdXd1YCO



...



titaniumTM

“A 211 MB monolith
of Eclipse and licensing”



titaniumTM

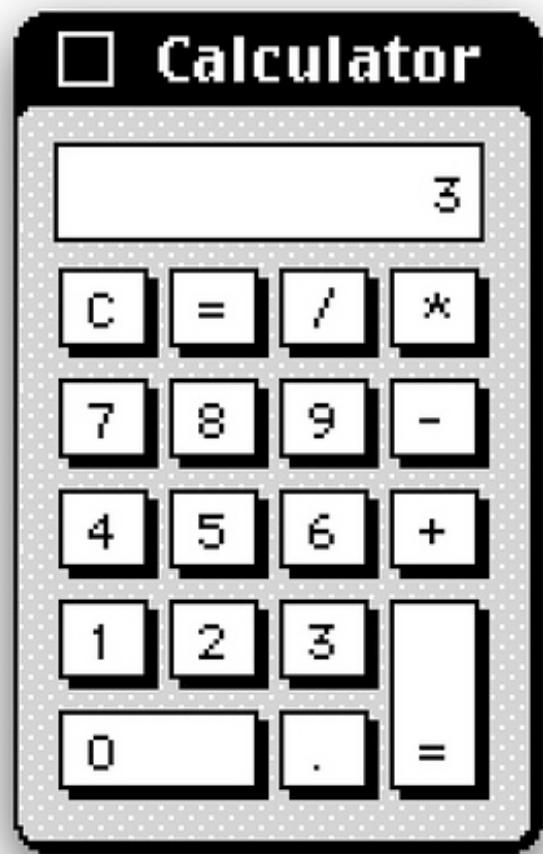
rewritium

enable

tinkering.



JS



Format Operation PenSize Pattern PenMode Text

Save Picture as what file? #5:calc1

~~RECORDED IN THE OFFICE OF THE CLERK OF THE COURT~~

十一

Save
www.mnn.com

卷二

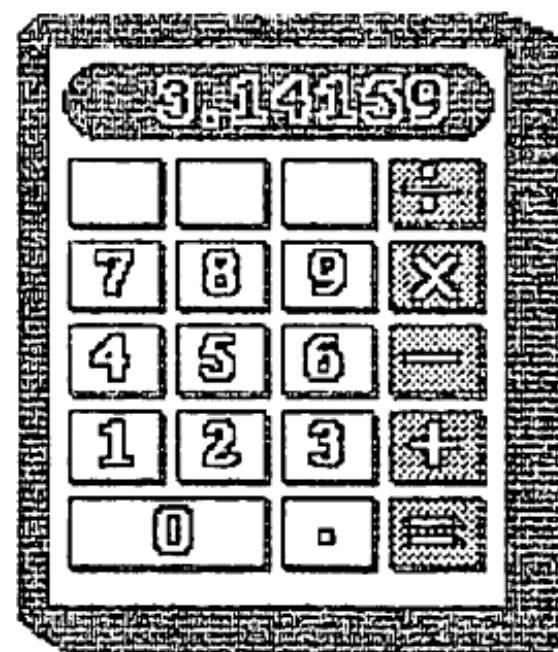
2112

三

10

26

picture as what file ? #5:calc2



show them
the demo
now allen.

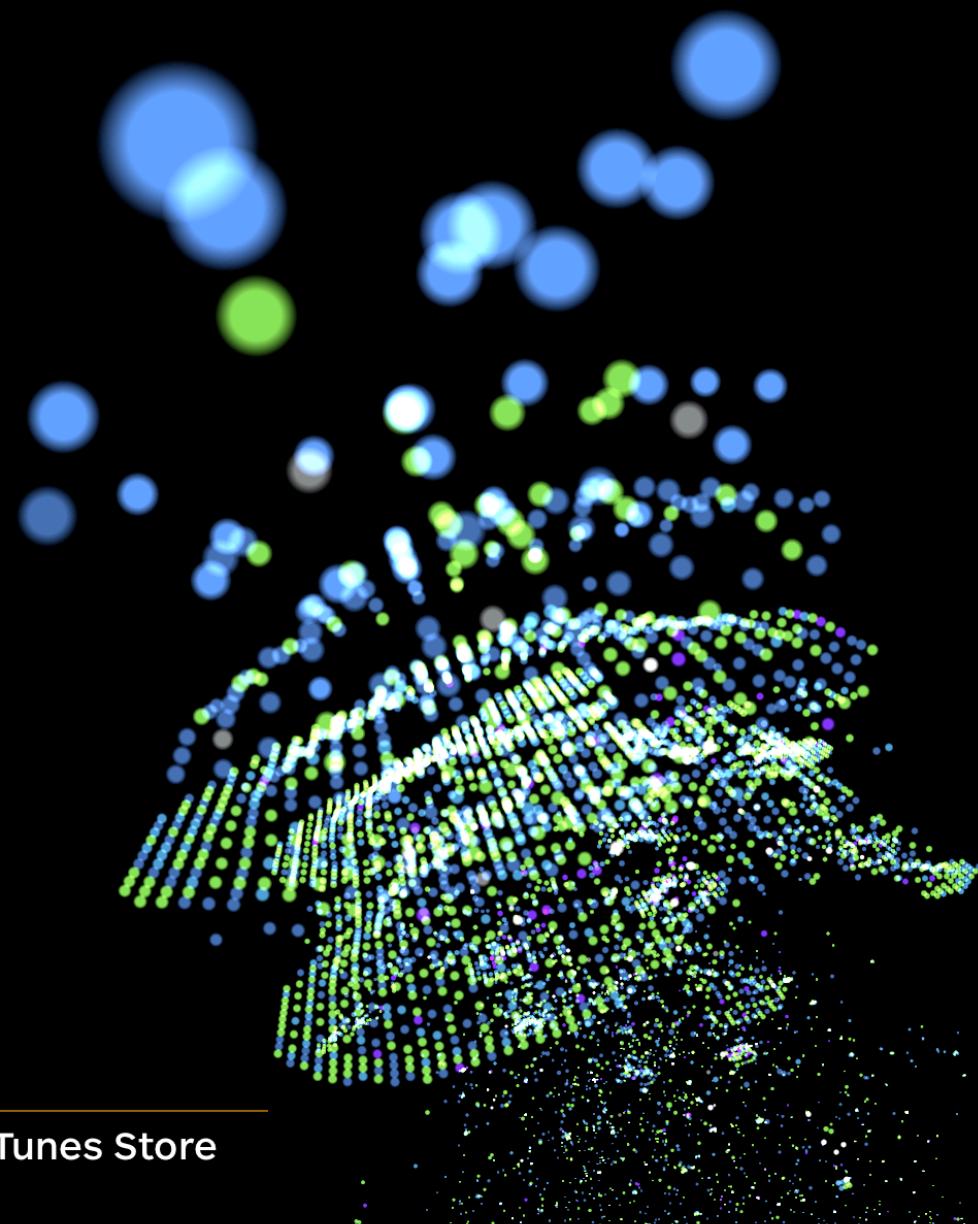
wow, a
calculator.

github.com/SteamClock/JSCalc

render

native

open gl.



Apple launches the **iTunes Store**
Skype launches
MySpace opens its doors

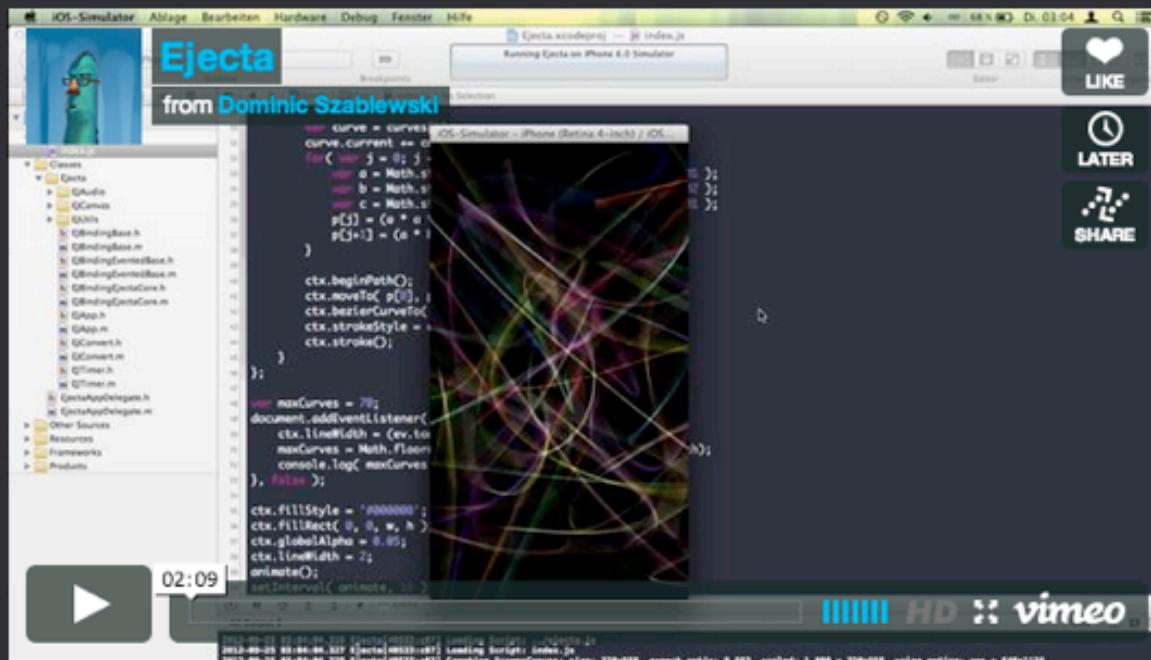
2003



 EJECTA

A Fast, Open Source JavaScript, Canvas & Audio Implementation for iOS

e·jēc·ta, noun – debris that is ejected during the formation of an impact crater



Ejecta is like a Browser without the Browser. It's specially crafted for Games and Animations. It has no DIVs, no Tables, no Forms – only Canvas and Audio elements. This focus makes it fast.

mix

javascript
and native.

UIKit

Android UI

Objective-C

Java

node

JS

UIKit

Android UI

logic JS

logic JS

node JS

HTML

HTML

Objective-C

Java

node

JS

UIKit

HTML

Obj-C

JS

Droid

HTML

Java

JS

node

JS

OpenGL

Text

logic JS

Brainfuck

WebObjects

share
javascript
in native apps.



a wild
rhino
appears!

embed a
javascript
runtime.

go build

delightful apps.



apike

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