IDEA TO APPSTORE WITH TITANIUM

js.la - June 28, 2012

console.log(**ME**);

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THE BOSS

The Family

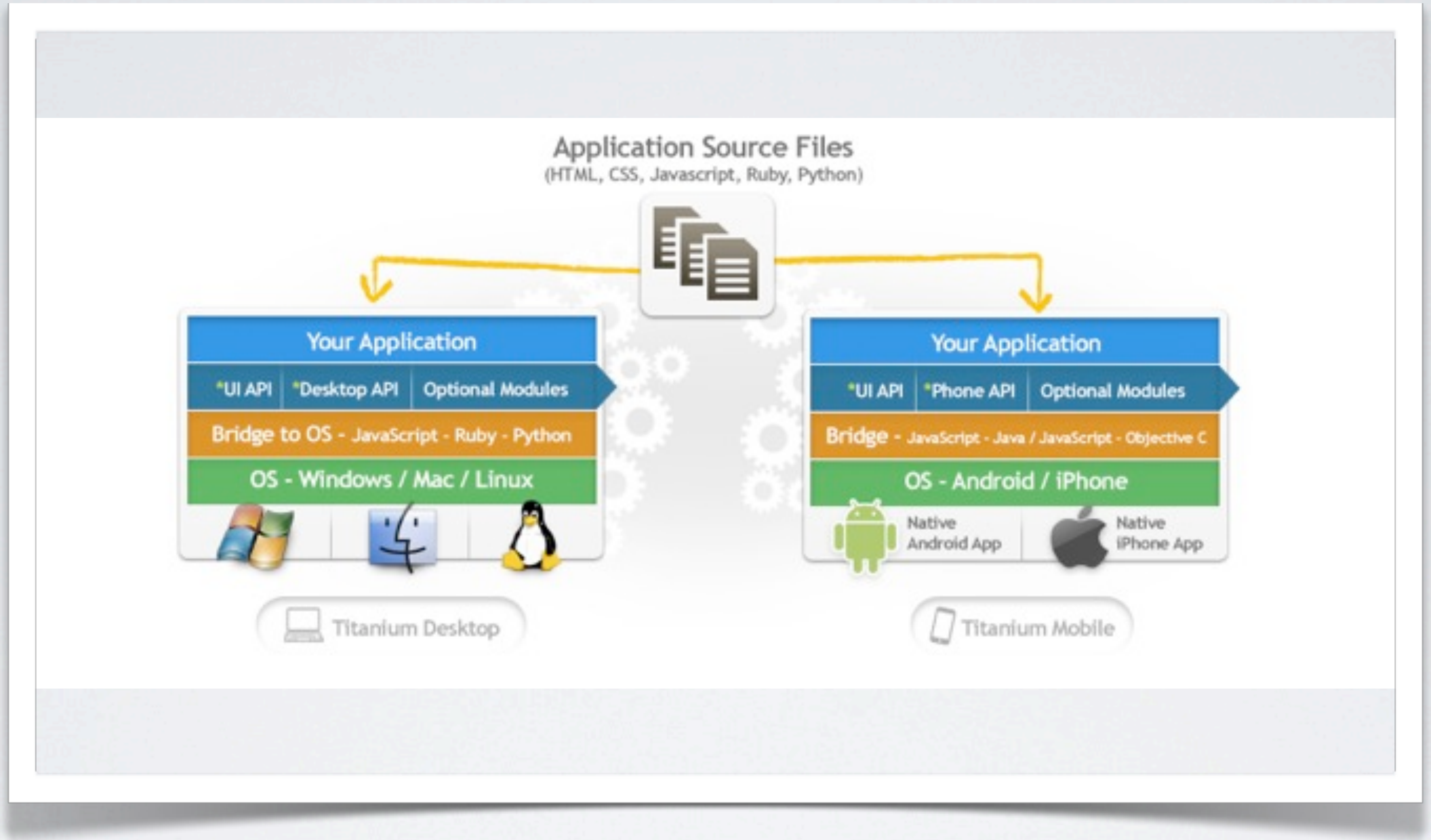
TITANIUM MOBILE

- Rapid development & prototyping tool
- Single high level language: JS
- Multiple deployment platform
- Use many JS libraries work out of the box
- Extendable with native modules

TITANIUM APPS ARE NATIVE

- Is Titanium the same thing as PhoneGap?
- Does titanium compile to objective-c?
- Can we also expect a native user experience?

TITANIUM RUNTIME



Mobile:

- JavaScript APIs for UI (Native)
- JavaScript for scripting
- WebView available, but not required

PLATFORM FEATURES

Native User Experience

Native performance + Native UI (tables, animations, gestures…etc.)

Multimedia

Camera, video camera, streaming/device audio/video

Location-based services

Augmented reality, geo-location, compass, native maps

Analytics

Custom analytics baked into every application, track usage patterns and adoption

Social sharing

Authenticated access to Facebook, Twitter, Yahoo YQL.
Native email/address book

Titanium+Plus

Encrypted database, ecommerce, ads, barcode scanners, custom analytics, in-app purchase

Data

Local SQLite data store, web services, lightweight key/value store

Development tools

Create, test, and publish your app using the same tools across platforms

WHO USES TITANIUM?

Latest Applications:

- Late Night with Jimmy Fallon
- Sugar Mobile
- GetGlue (Android)

Companies:

- NBC/Universal
- eBay and PayPal
- Anheuser Busch
- Jaguar
- MTV
- Many more

App badge shows you overdue

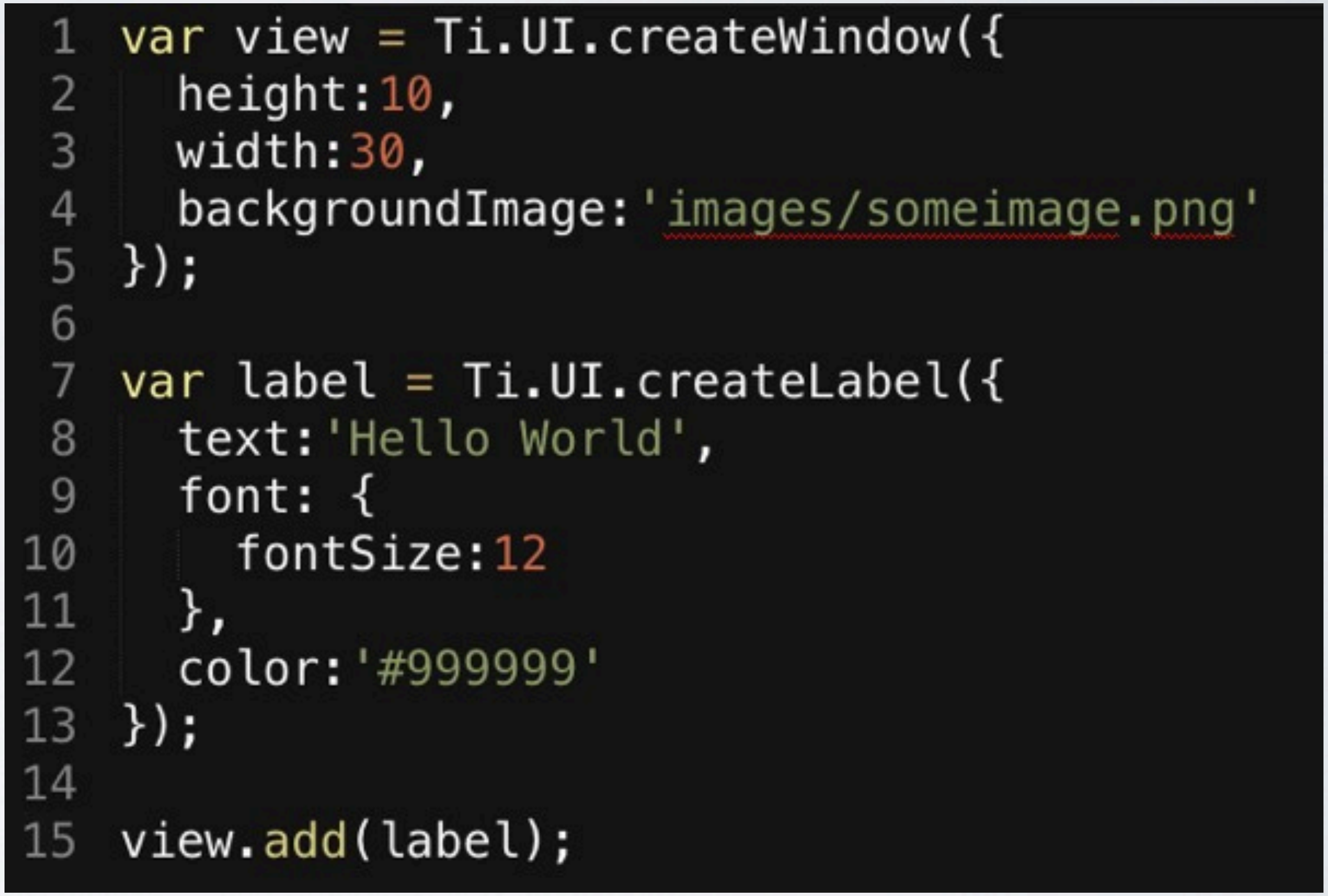
FOR YOU WEB DEVELOPERS…

A "window" is analogous to a "page"

A "view" is analogous to a "div"

Ti.UI namespace provides many specialized controls (buttons, text fields, pickers, maps, scroll views)

UI objects are composed in JavaScript similarly to DOM fragments



```
var view = Ti.UI.createWindow({
  height:10,
  width:30,
  backgroundImage:'images/someimage.png'
});

var label = Ti.UI.createLabel({
  text:'Hello World',
  font: {
    fontSize:12
  },
  color:'#999999'
});

view.add(label);
```

VIEW HIERARCHY AND POSITIONING

Modeled after iOS View Hierarchy

Views positioned relative to parent

Layout options:

- Absolute
- Vertical
- Horizontal

EVENT HANDLING

Similar To JavaScript in the browser

Can use addEventListener on nearly any JS object

Can programmatically fire events on objects as well

TITANIUM WORKFLOW

Target both platforms early (though not necessarily today)

iOS Emulator is fast for dev

Deploying to iOS device is slow

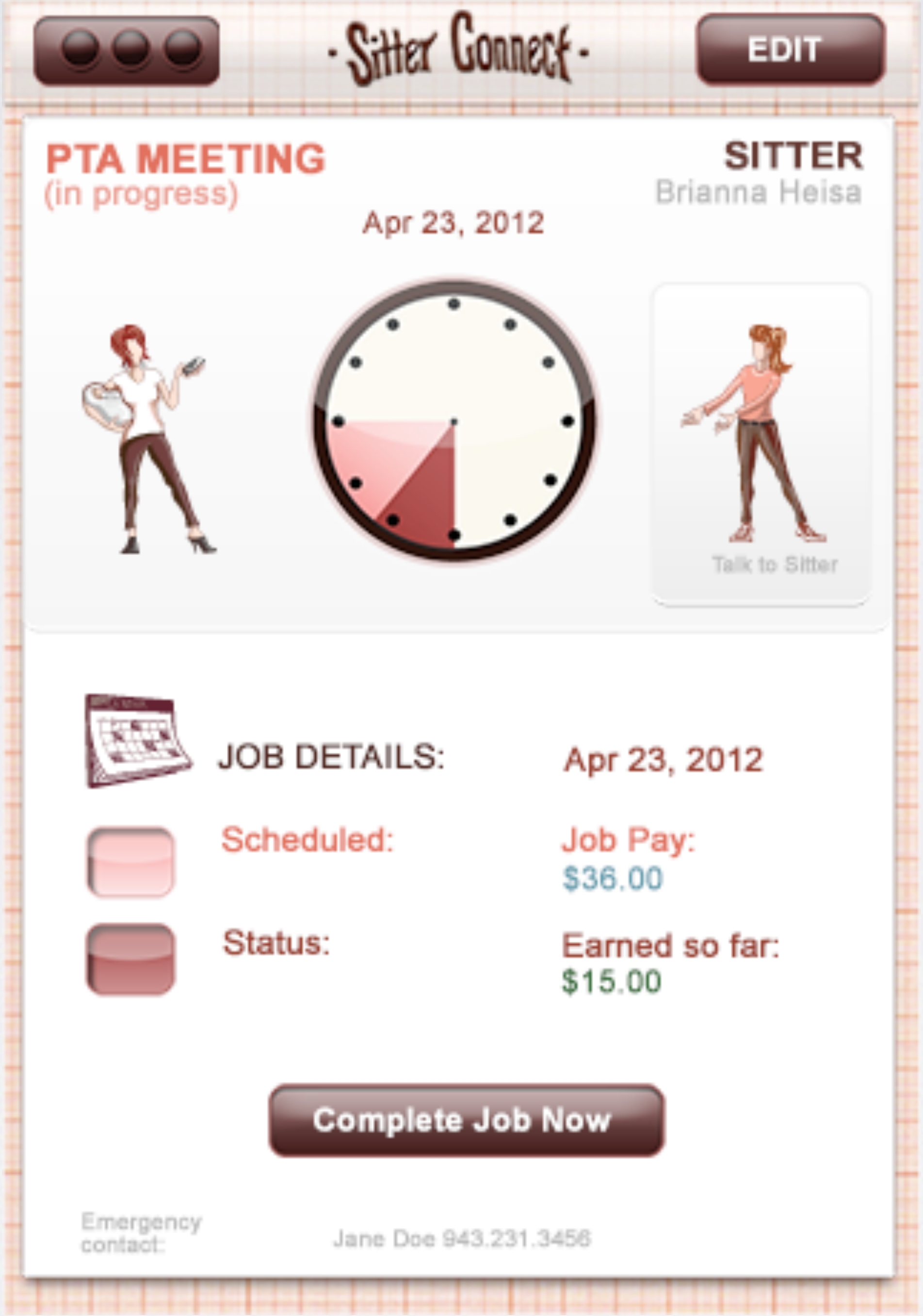
Android Emulator is S-L-O-W – keep it running!

Android devices are faster (better for dev)

PSD2TI

- Parse Photoshop files and generate Titanium UI
- Layers are given # to denote element (ex. somelayer#button)
- Exports layers to individual files (retina/non-retina)

EXAMPLE PSD



PTA MEETING
(in progress)

SITTER
Brianna Heisa

Apr 23, 2012

JOB DETAILS: Apr 23, 2012

Scheduled:

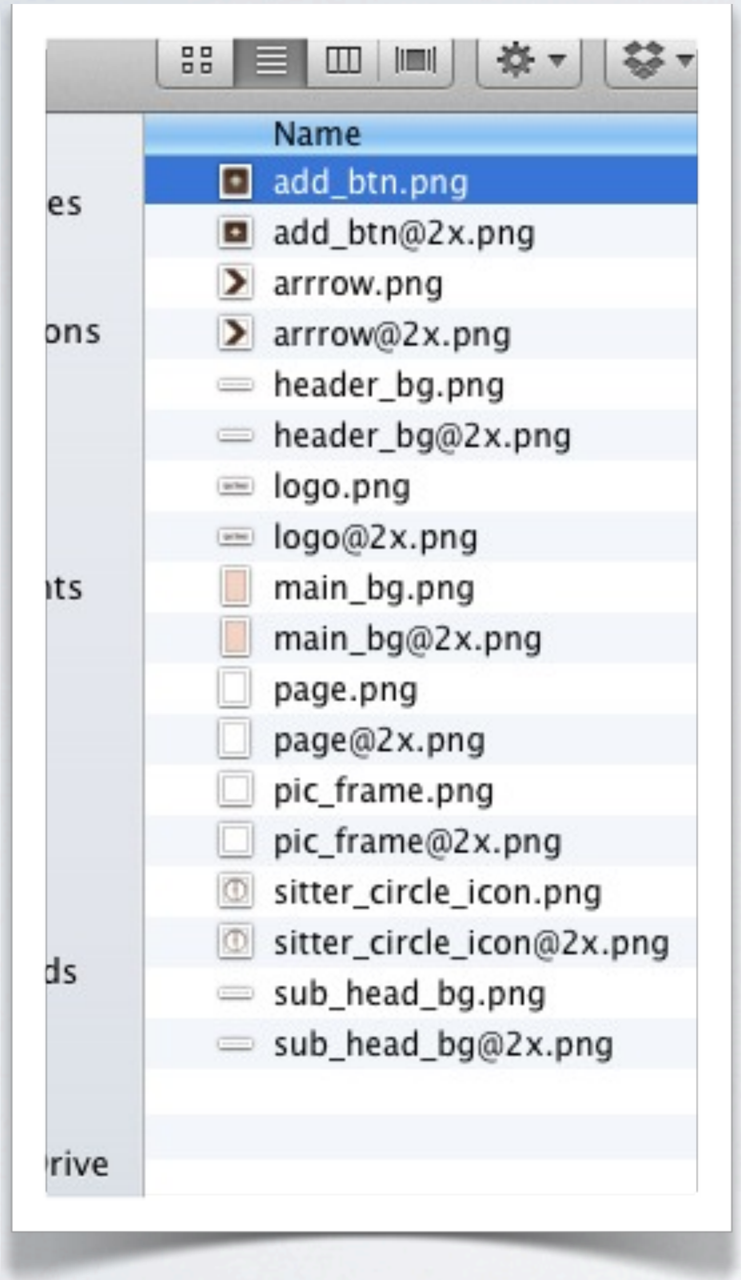
Job Pay:
$36.00

Status:

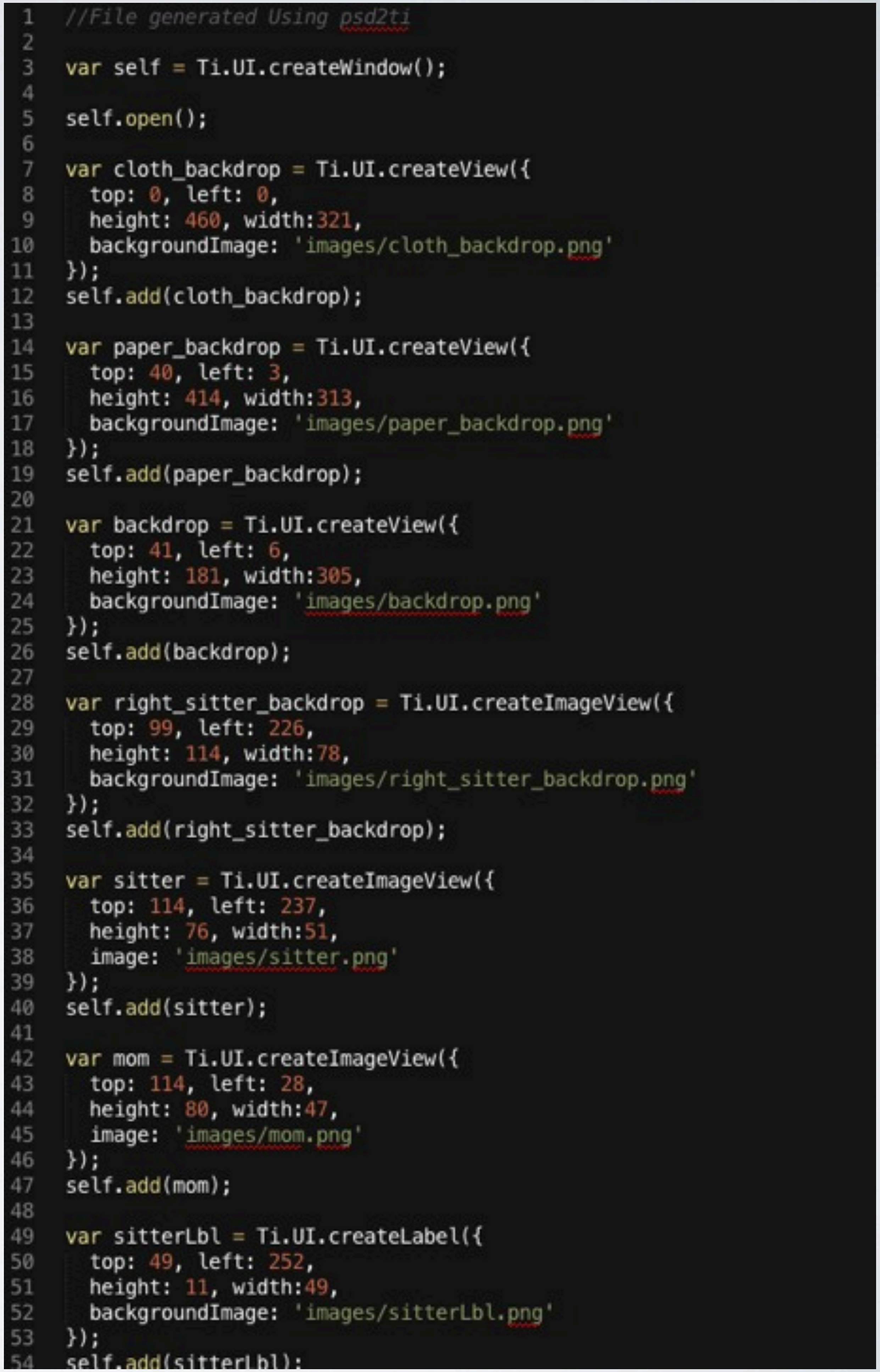
Earned so far:
$15.00

Emergency contact: Jane Doe 943.231.3456

Output



Name
- add_btn.png
- add_btn@2x.png
- arrrow.png
- arrrow@2x.png
- header_bg.png
- header_bg@2x.png
- logo.png
- logo@2x.png
- main_bg.png
- main_bg@2x.png
- page.png
- page@2x.png
- pic_frame.png
- pic_frame@2x.png
- sitter_circle_icon.png
- sitter_circle_icon@2x.png
- sub_head_bg.png
- sub_head_bg@2x.png



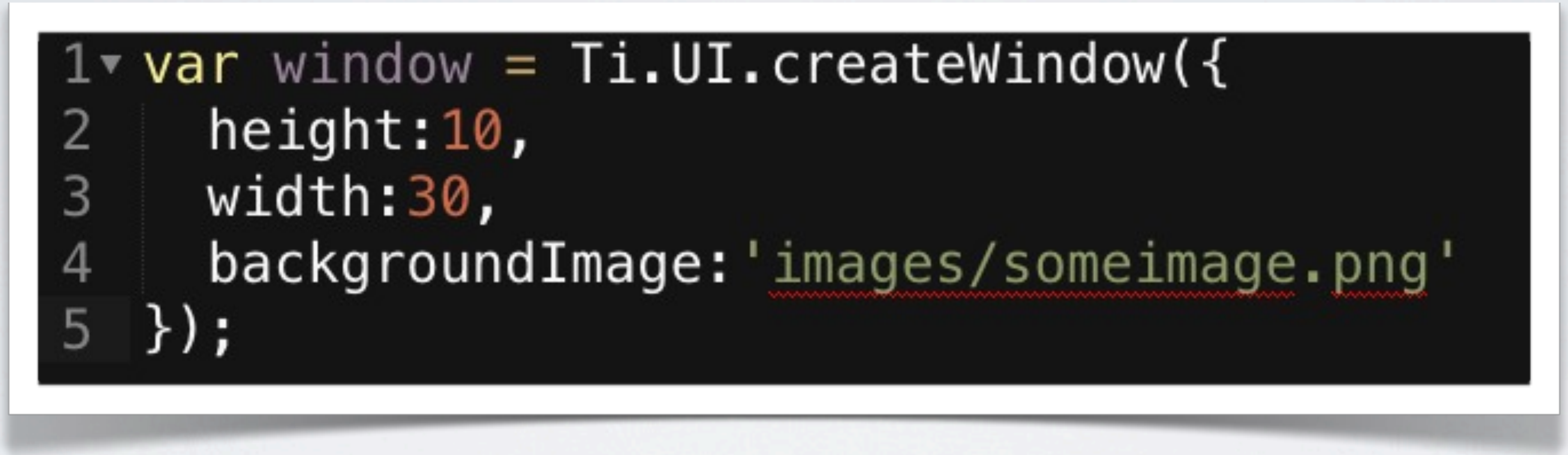
```
//File generated Using psd2ti

var self = Ti.UI.createWindow();

self.open();

var cloth_backdrop = Ti.UI.createView({
  top: 0, left: 0,
  height: 460, width:321,
  backgroundImage: 'images/cloth_backdrop.png'
});
self.add(cloth_backdrop);

var paper_backdrop = Ti.UI.createView({
  top: 40, left: 3,
  height: 414, width:313,
  backgroundImage: 'images/paper_backdrop.png'
});
self.add(paper_backdrop);

var backdrop = Ti.UI.createView({
  top: 41, left: 6,
  height: 181, width:305,
  backgroundImage: 'images/backdrop.png'
});
self.add(backdrop);

var right_sitter_backdrop = Ti.UI.createImageView({
  top: 99, left: 226,
  height: 114, width:78,
  backgroundImage: 'images/right_sitter_backdrop.png'
});
self.add(right_sitter_backdrop);

var sitter = Ti.UI.createImageView({
  top: 114, left: 237,
  height: 76, width:51,
  image: 'images/sitter.png'
});
self.add(sitter);

var mom = Ti.UI.createImageView({
  top: 114, left: 28,
  height: 80, width:47,
  image: 'images/mom.png'
});
self.add(mom);

var sitterLbl = Ti.UI.createLabel({
  top: 49, left: 252,
  height: 11, width:49,
  backgroundImage: 'images/sitterLbl.png'
});
self.add(sitterLbl);
```

TITANIUM : SHIMMY.JS

- Shortened syntax
- Extendable Objects
- Better EventEmitters w/ EventEmitter2
- Property Mapping
- Easier Custom Object Creation
- Chainable

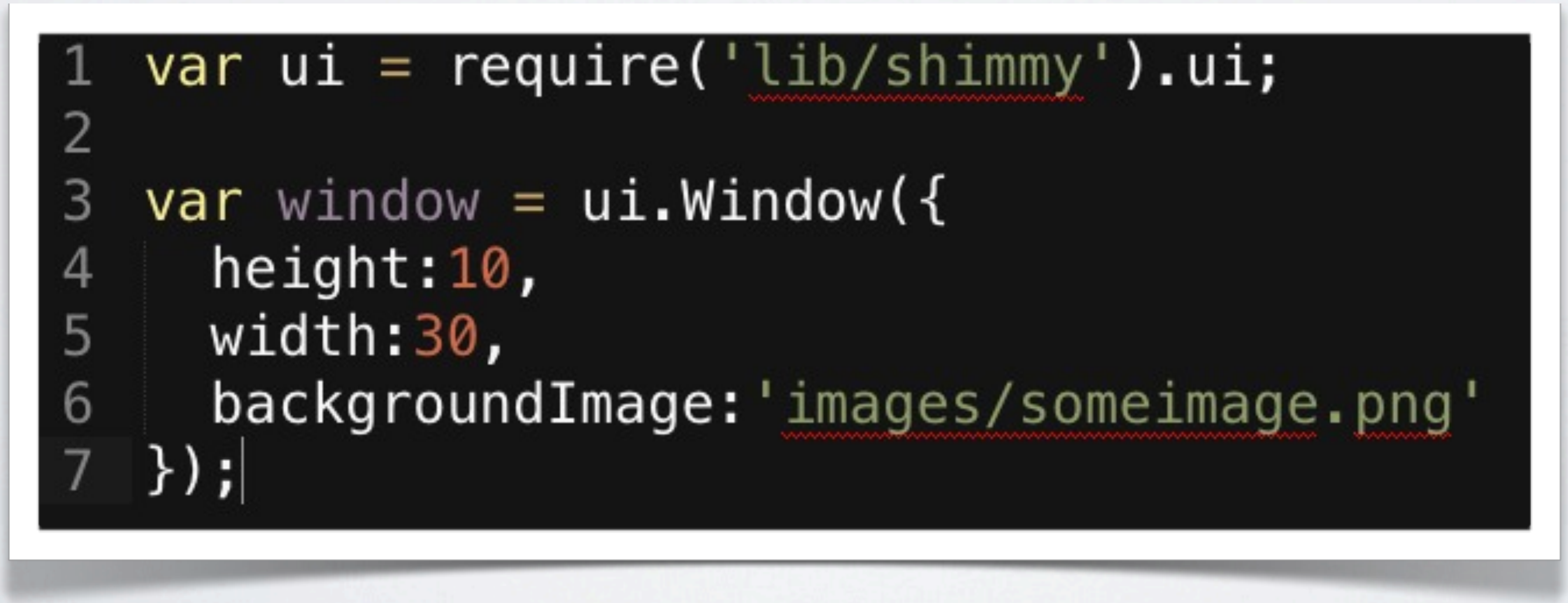
SYNTAX

Titanium Syntax



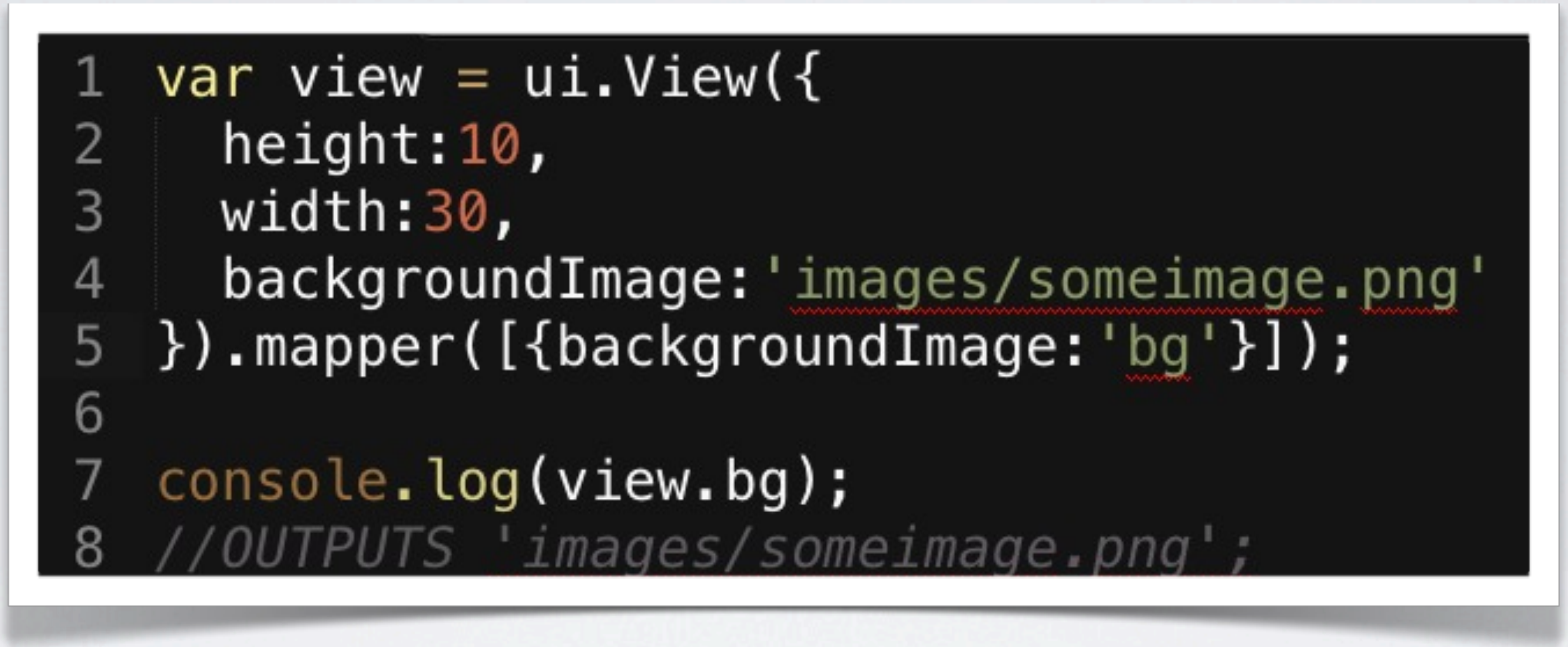
```
var window = Ti.UI.createWindow({
  height:10,
  width:30,
  backgroundImage:'images/someimage.png'
});
```

Shimmy Syntax



```
var ui = require('lib/shimmy').ui;

var window = ui.Window({
  height:10,
  width:30,
  backgroundImage:'images/someimage.png'
});
```

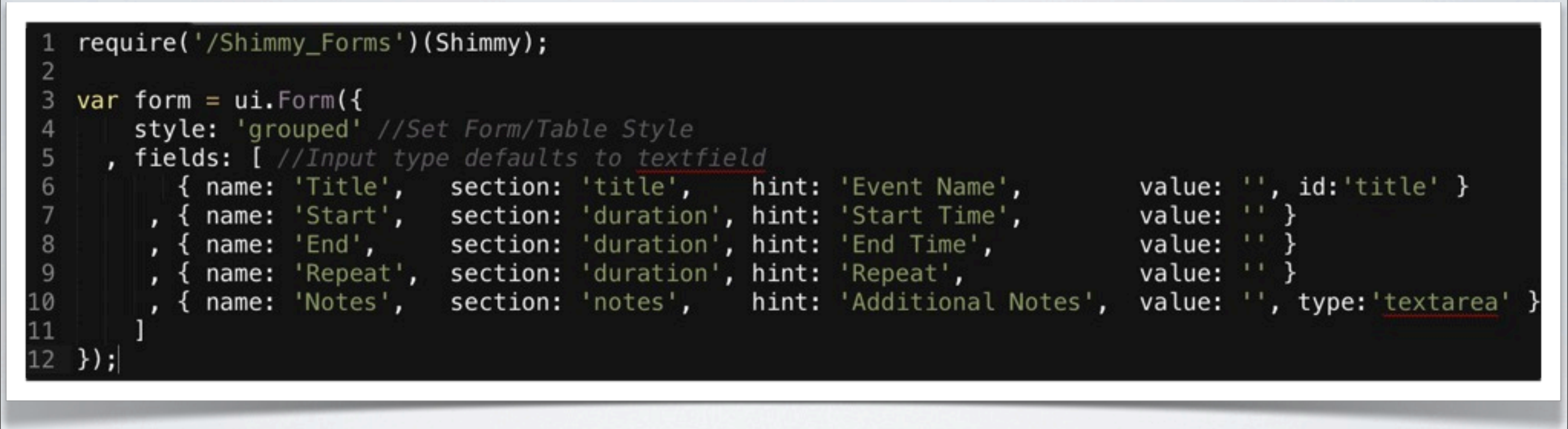
MAPPING



```
var view = ui.View({
  height:10,
  width:30,
  backgroundImage:'images/someimage.png'
}).mapper([{backgroundImage:'bg'}]);

console.log(view.bg);
//OUTPUTS 'images/someimage.png';
```

Works great for grabbing values from complex forms.

EXTENDABLE

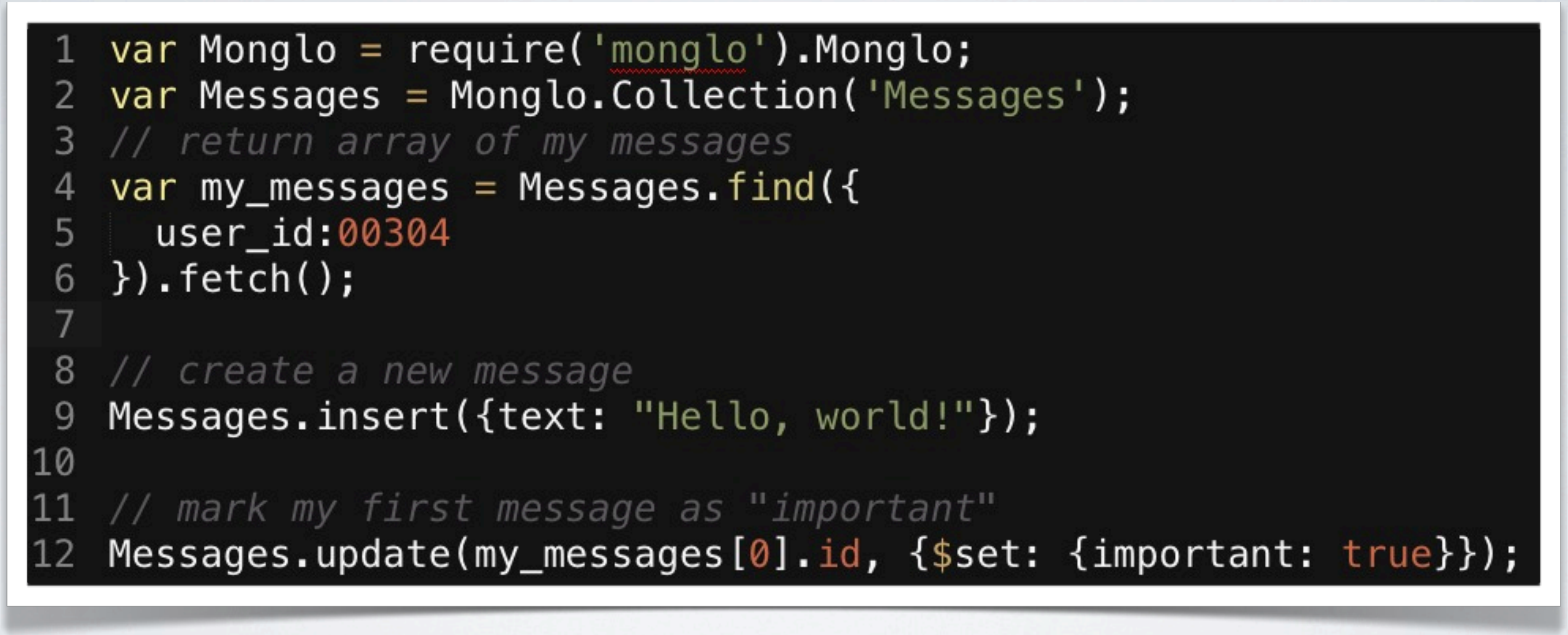


```
require('/Shimmy_Forms')(Shimmy);

var form = ui.Form({
    style: 'grouped' //Set Form/Table Style
  , fields: [ //Input type defaults to textfield
       { name: 'Title',   section: 'title',     hint: 'Event Name',        value: '', id:'title' }
     , { name: 'Start',   section: 'duration', hint: 'Start Time',        value: '' }
     , { name: 'End',     section: 'duration', hint: 'End Time',          value: '' }
     , { name: 'Repeat',  section: 'duration', hint: 'Repeat',            value: '' }
     , { name: 'Notes',   section: 'notes',     hint: 'Additional Notes',  value: '', type:'textarea' }
    ]
});
```

MONGLODB

- In memory db
- Evented Collections
- MongoDB query syntax
- Locally stored for offline persistence
- Available offline

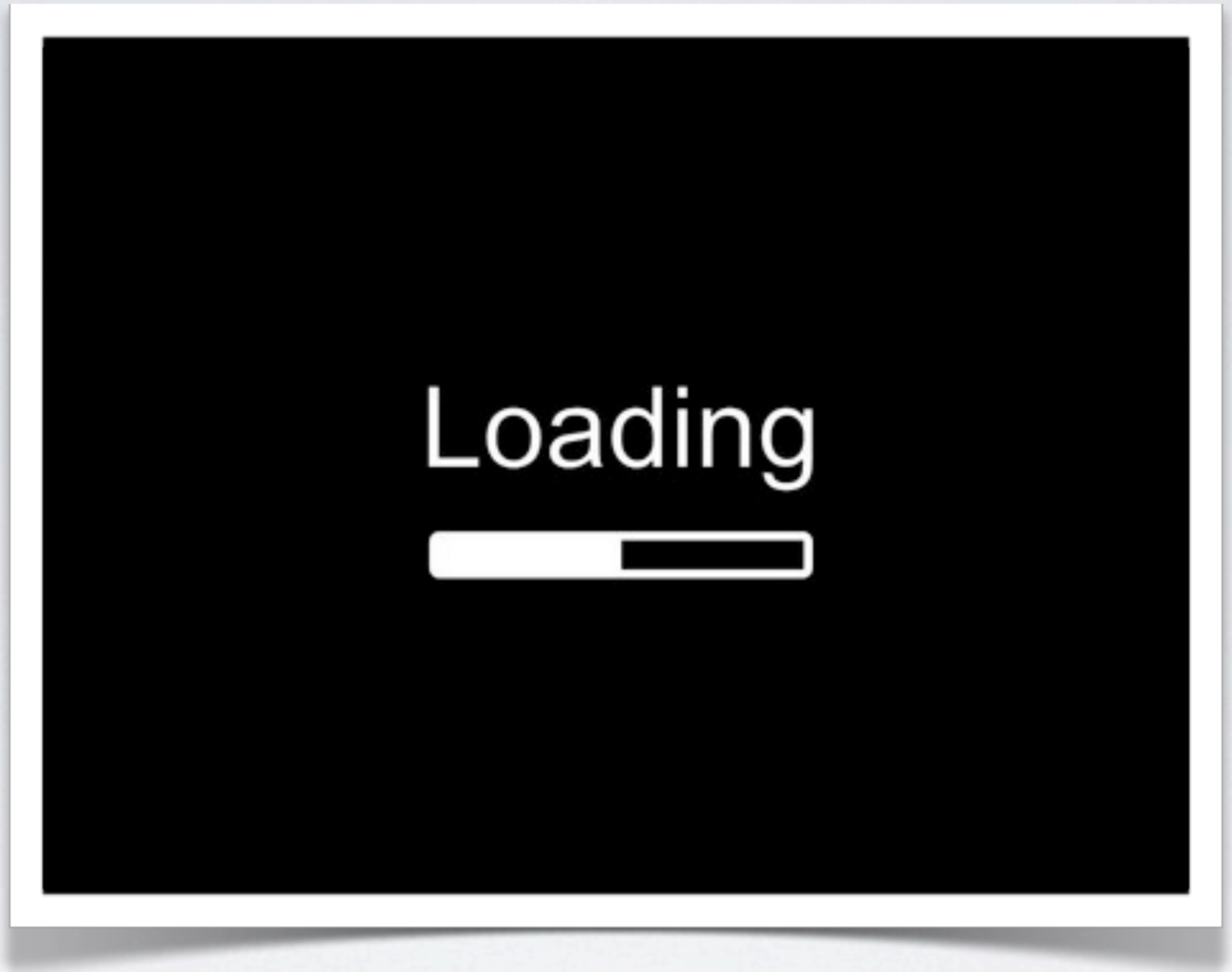
USAGE EXAMPLE



```
var Monglo = require('monglo').Monglo;
var Messages = Monglo.Collection('Messages');
// return array of my messages
var my_messages = Messages.find({
  user_id:00304
}).fetch();

// create a new message
Messages.insert({text: "Hello, world!"});

// mark my first message as "important"
Messages.update(my_messages[0].id, {$set: {important: true}});
```

WHY?

So we can avoid these :-)

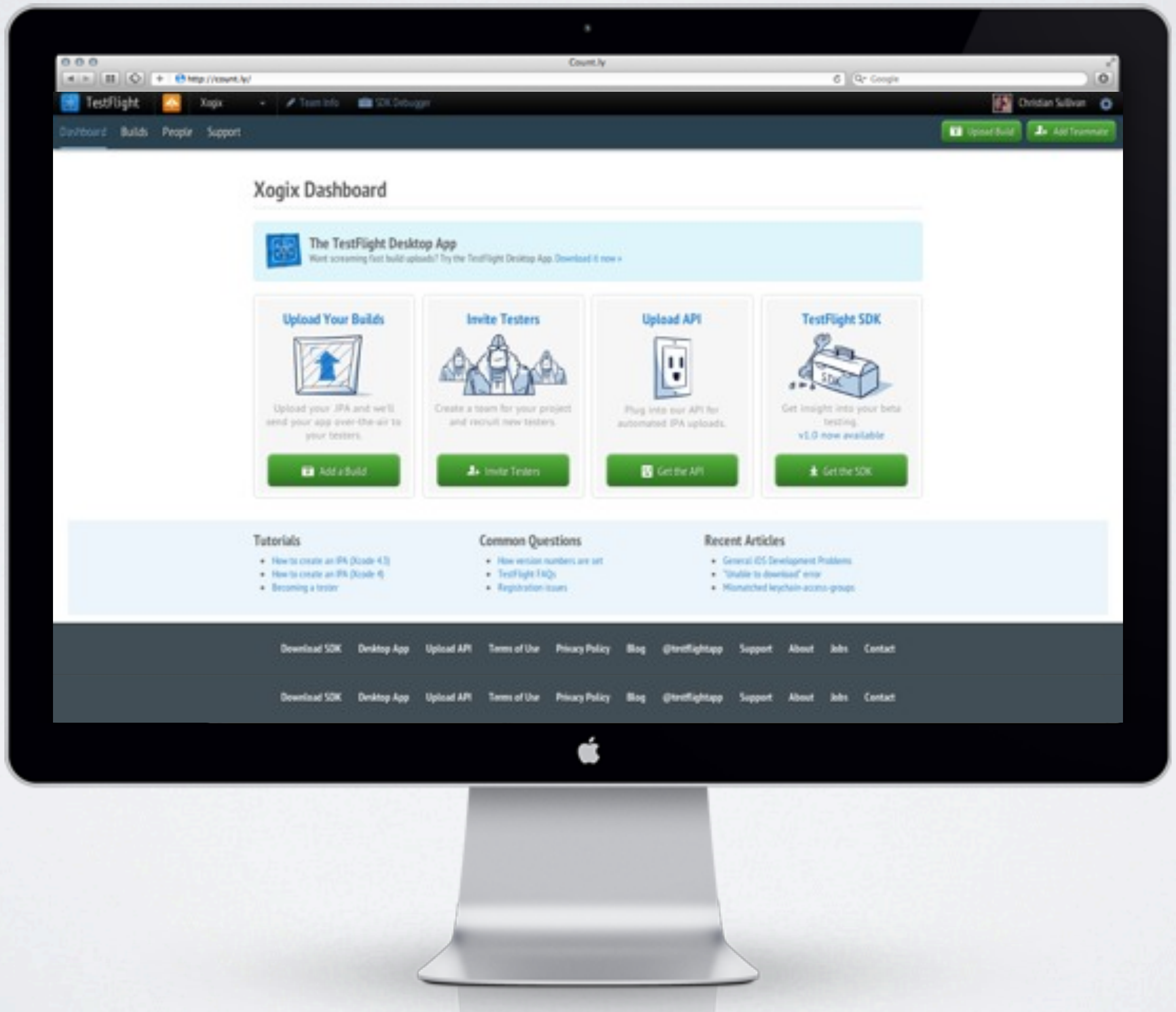


Simple apps don’t require server backend.

DISTRIBUTING BETAS

http://testflightapp.com

https://github.com/DamageStudios/testflight-module



Xogix Dashboard

The TestFlight Desktop App

Want screaming fast build uploads? Try the TestFlight Desktop App. Download it now »

Upload Your Builds

Upload your IPA and we'll send your app over-the-air to your testers.

Invite Testers

Create a team for your project and recruit new testers.

Upload API

Plug into our API for automated IPA uploads.

TestFlight SDK

Get insight into your beta testing.

v1.0 now available

Tutorials

- How to create an IPA (Xcode 4.3)
- How to create an IPA (Xcode 4)
- Becoming a tester

Common Questions

- How version numbers are set
- TestFlight FAQs
- Registration issues

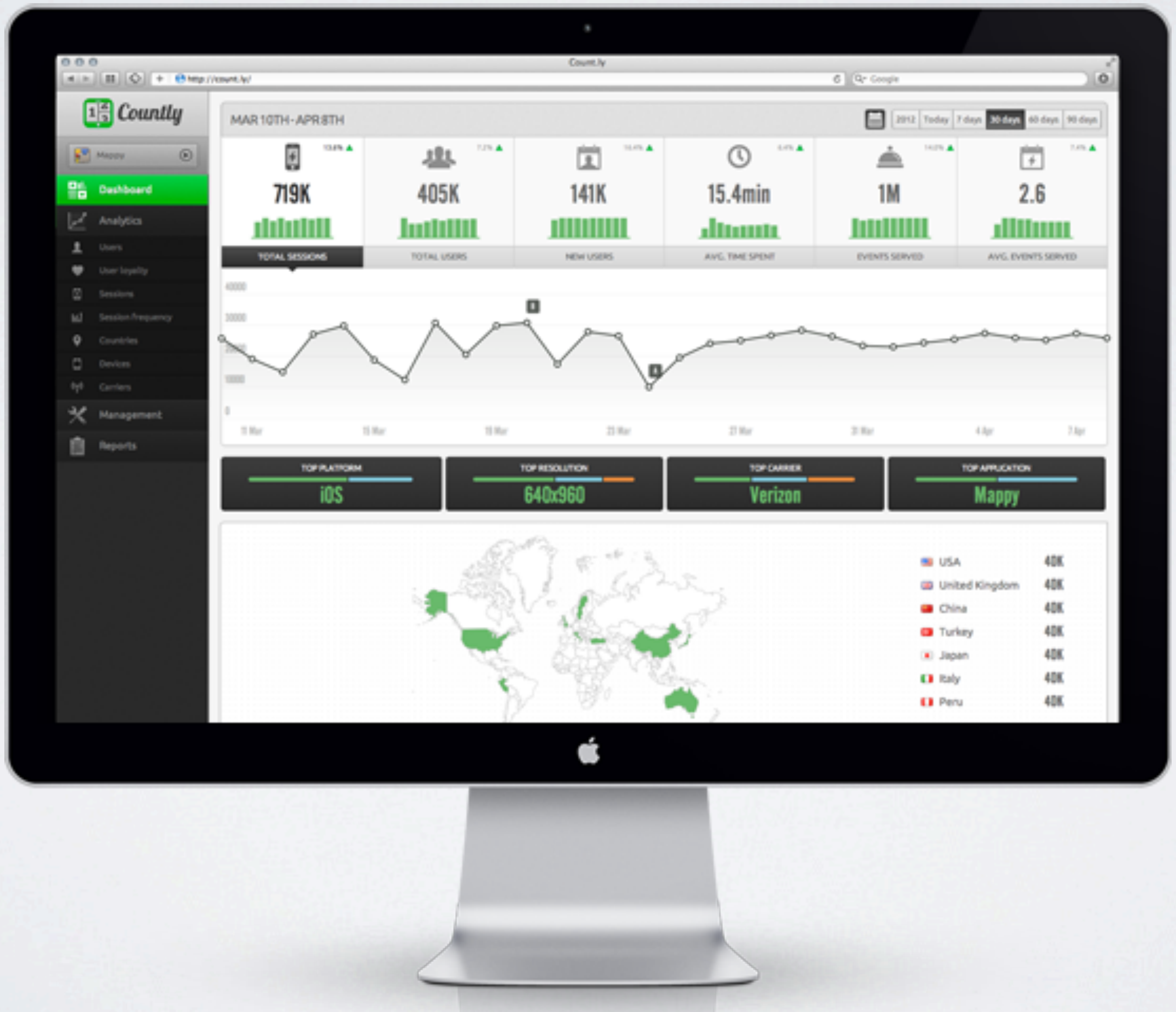
Recent Articles

- General iOS Development Problems
- "Unable to download" error
- Mismatched keychain-access-groups

ANALYTICS

http://count.ly

https://github.com/euforic/Titanium-Count.ly



MAR 10TH - APR 8TH

TOTAL SESSIONS	TOTAL USERS	NEW USERS	AVG. TIME SPENT	EVENTS SERVED	AVG. EVENTS SERVED
719K	405K	141K	15.4min	1M	2.6

TOP PLATFORM	TOP RESOLUTION	TOP CARRIER	TOP APPLICATION
iOS	640x960	Verizon	Mappy

USA	40K
United Kingdom	40K
China	40K
Turkey	40K
Japan	40K
Italy	40K
Peru	40K

QUESTIONS?

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