



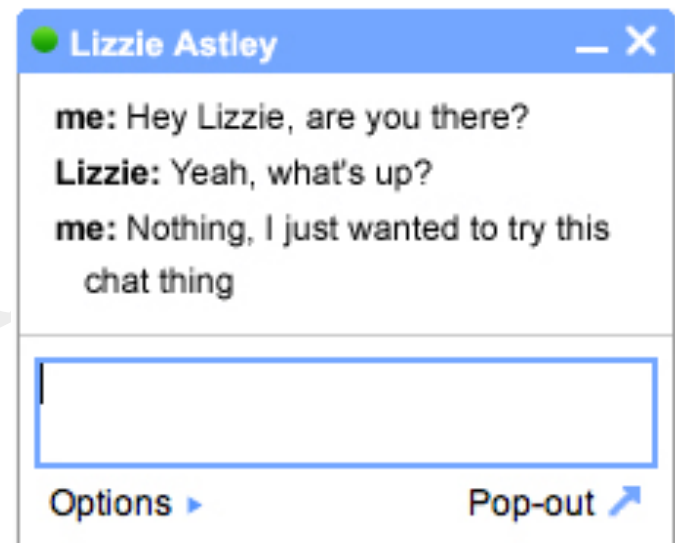
Social and Real-time Web Applications using Meteor

Developing Real-time Web Apps in JavaScript on Linux

Anurag Bhandari

A real-time application (RTA) is an application program that functions within a time frame that the user senses as immediate or current. The latency must be less than a defined value, usually measured in seconds.

- Gmail Chat / Talk
- Google Docs
- Etherpad



What is a real-time app?

“ Meteor is an open-source platform for building top-quality web apps in a fraction of the time, whether you're an expert developer or just getting started.”

What is Meteor?

- Data on the Wire
- One Language
- Database Everywhere
- Latency Compensation
- Full Stack Reactivity
- Embrace the Ecosystem
- Simplicity Equals Productivity

Seven Principles of Meteor

Meteor is powered by:

- *node.js* Event-driven I/O server-side JavaScript environment based on V8.
- *MongoDB* (from "humongous") is an open-source document database, and the leading NoSQL database.
- *Handlebars* Templating Engine in JavaScript (inspired by Mustache.JS); uses text file templates; accepts JSON data as input.

Meteor: Behind the Scenes

```
$ curl https://install.meteor.com/ | sh
```

Meteor can be as easily updated via a simple:

```
$ meteor update
```

Installing Meteor

```
$ meteor create myapp
```

```
$ cd myapp
```

```
$ meteor
```

Creating a New App

Name	Size	Type
- client	3 items	folder
client.js	8.3 kB	JavaScript program
parties.css	1.1 kB	CSS stylesheet
parties.html	5.6 kB	HTML document
- public	1 item	folder
soma.png	128.8 kB	PNG image
- server	1 item	folder
server.js	296 bytes	JavaScript program
model.js	5.9 kB	JavaScript program

Structuring Your App


```
$ meteor add pkg-name
```

Available packages:

- Bootstrap
- CoffeeScript
- D3
- jQuery
- Less
- Underscore
- more...

Smart Packages

Meteor makes use of Handlebars.js for implementing templates.

```
<template name="hello">  
  Hello there, {{first}} {{last}}!  
</template>
```

Templates

Let's see it live!

Demo: Parties

```
$ meteor deploy myapp.meteor.com
```

OR

```
$ meteor bundle myapp.tgz
```

- Deployment is a breeze: deployment on Linux is supported out of the box, though there's no official way yet to deploy on Windows.
- As Meteor is essentially based on node.js, so a Meteor app can be deployed just as any other node app.

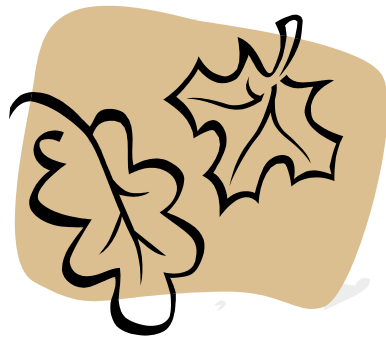
Deploying

- Always start with docs.meteor.com
- Not to be missed short videos
 - <http://meteor.com/screencast>
 - <http://meteor.com/authcast>
- More screencasts at eventedmind.com
- There's also a book at discovermeteor.com
- Unofficial Meteor research labs at meteorhacks.com

Delving Further

- Connect with me online:
 - Email -- ab@anuragbhandari.com
 - Google Talk -- same as above
- Official Meteor channels:
 - IRC -- <https://www.meteor.com/irc>
 - Stackoverflow -- <http://stackoverflow.com/questions/tagged/meteor>

Questions?



Thank You