

# **Real Time First**

An overview of Meteor

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# Web Technology & Trends Overview

full disclosure: mostly personal opinions

### Disruptive Innovation or Event:

- WWW
- Browsers

### Key Points:

- Server side rendering
- Scripting (Perl, C++)
- Poor user interaction

CHAOS (Early 1990's)

### Disruptive Innovation or Event:

- PHP / Zend
- Early Frameworks (GP & MVC)
- Amazon

### Key Points:

- Server side rendering
- Scripting & OO
- Poor user interaction

FRAMEWORKS (Late 1990's, Early 2000's)

### Disruptive Innovation or Event:

- Ruby on Rails (MVC)
- Ajax
- Gmail
- Social
- SaaS

### Key Points:

- Server side rendering
- Client side rendering
- Javascript libraries
- Better user interaction
- Towards massive scalability

PRODUCTIVITY (Mid, Late 2000's)

### Disruptive Innovation or Event:

- Powerful Javascript Frameworks
- PaaS, IaaS
- Initial **Node** Release
- No-SQL Adoption

### Key Points:

- Rich clients
- REST
- User interaction pushed to the limits

EXPLOSION (Around 2008-2010)

### Disruptive Innovation or Event:

- Lowest entry barriers
- Open Education

### Key Points:

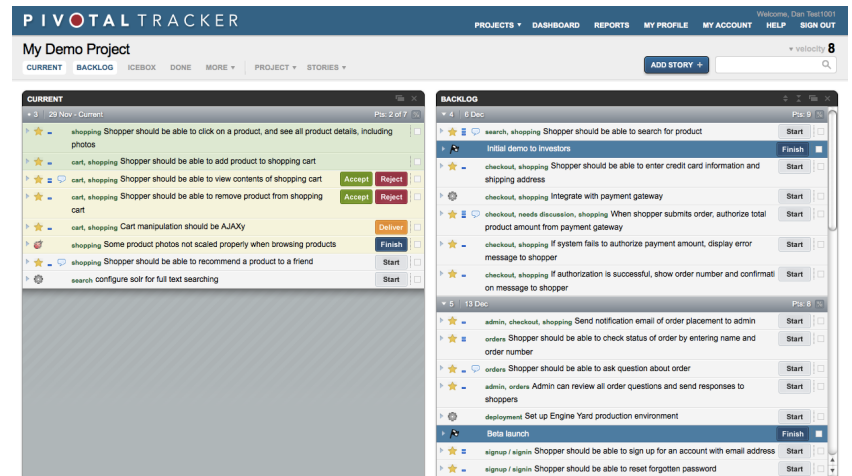
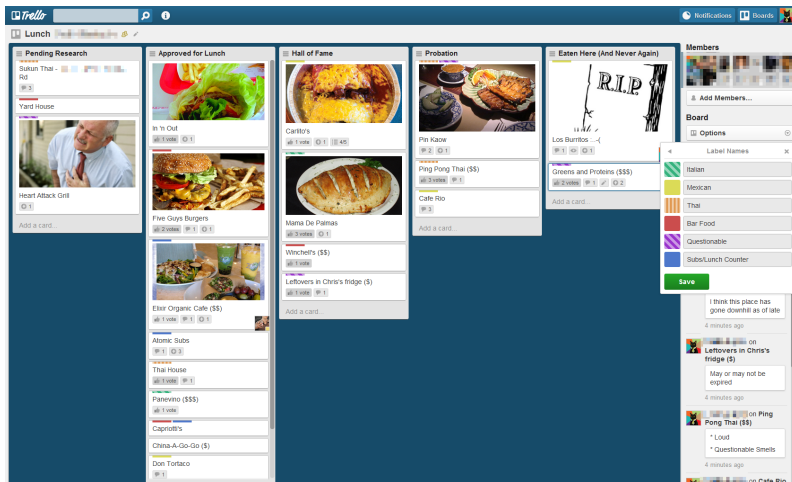
- Startup's explosion
- Short Time to Market
- Massive Scalability
- User interaction
- Innovation

TODAY (Around 2012-2013)



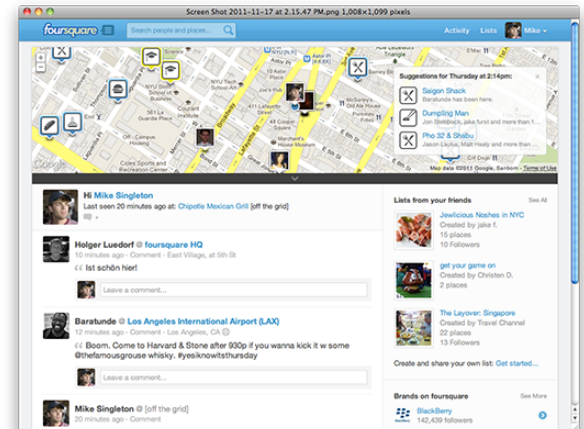
image from: <http://www.kpcb.com/insights/2013-internet-trends>





## Some common approaches:

- REST API (Rails) + Backbone + Handlebars
- REST API (?) + ExtJS
- REST API (?) + Sencha Touch
- REST API + AngularJS
- ...

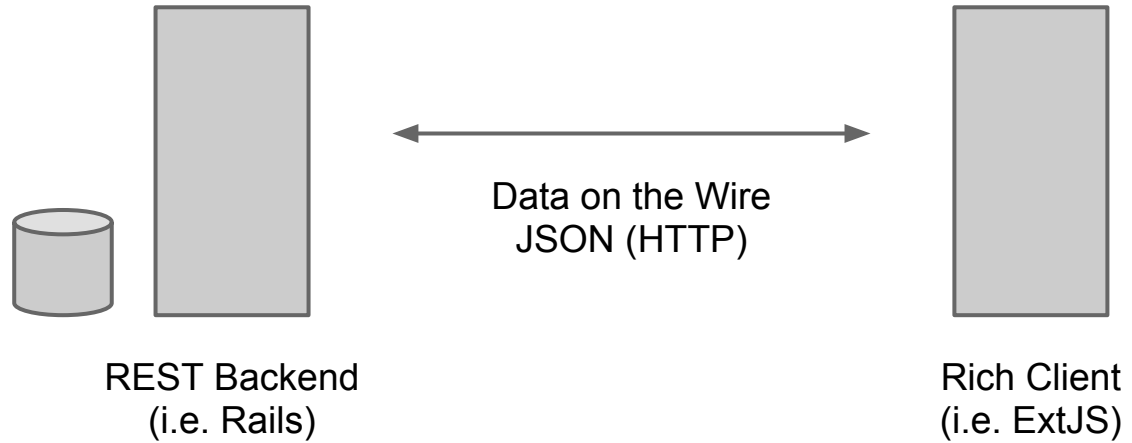


# Meteor

"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."

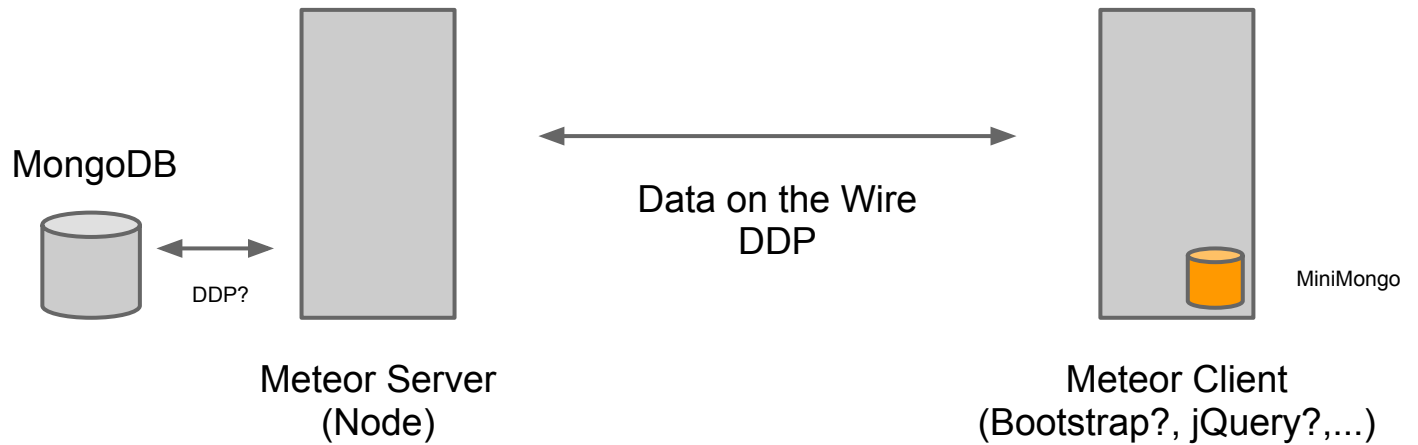
## Example Typical App

1



## Meteor App

2



# Nine principles (Will Demo First 6)

<https://github.com/rlora/meteor-reactivity-ac-poc>

<http://ac-dashboard.meteor.com/>

1. Pure JavaScript.
2. Live page updates.
3. Clean, powerful data synchronization.
4. Latency compensation.
5. Hot Code Pushes.
6. Sensitive code runs in a privileged environment.
7. Fully self-contained application bundles.
8. Interoperability.
9. Smart Packages.

# AC Dashboard POC

- Goal: Dashboard showing rooms and real time info about people in the rooms.
- Collections:
  - Rooms = new Meteor.Collection("rooms");
  - RoomTransactions = new Meteor.Collection("roomTransactions");
  - RoomResidents = new Meteor.Collection("roomResidents");

# AC Dashboard

Press the button to simulate 300 transactions. The transactions are generated on the server to **simulate during a short period of time people arriving and leaving a building**. The interface will react in real time to changes affecting the data in the server. **Source:** <https://github.com/riora/meteor-reactivity-ac-poc>

simulate 300 transactions

## Room Magnafone

47 people capacity 🐾 19



### last transactions

➡	Vega Dejesus	24-Jul-2013 20:21
➡	April Hardin	24-Jul-2013 20:21
➡	Nadine Hatfield	24-Jul-2013 20:21
➡	Penelope Andrews	24-Jul-2013 20:21
➡	Hill Landry	24-Jul-2013 20:21
➡	Aurelia Maldonado	24-Jul-2013 20:21

## Room Intrawear

42 people capacity 🐾 7



### last transactions

➡	Jasmine Avila	24-Jul-2013 20:21
➡	Sears Preston	24-Jul-2013 20:21
➡	Nixon Williams	24-Jul-2013 20:21
➡	Rasmussen Manning	24-Jul-2013 20:21
➡	Fitzgerald Boyle	24-Jul-2013 20:21
➡	Banks Wilkins	24-Jul-2013 20:21

## Room Digiprint

25 people capacity 🐾 15



### last transactions

➡	Erin McCormick	24-Jul-2013 20:21
➡	Clark Coffey	24-Jul-2013 20:21
➡	Sally Haney	24-Jul-2013 20:21
➡	Griffith Higgins	24-Jul-2013 20:21
➡	Tami Hood	24-Jul-2013 20:21
➡	Hill Landry	24-Jul-2013 20:21

## Room Silodyne

21 people capacity 🐾 19



### last transactions

➡	Bethany Fulton	24-Jul-2013 20:21
➡	Ross Allison	24-Jul-2013 20:21
➡	Dickerson Garcia	24-Jul-2013 20:21
➡	Schneider Craig	24-Jul-2013 20:21
➡	Nixon Williams	24-Jul-2013 20:21
➡	Jamie Bright	24-Jul-2013 20:21

## Room Coash

21 people capacity 🐾 13



### last transactions

➡	Althea Sargent	24-Jul-2013 20:21
➡	Wilcox Alvarado	24-Jul-2013 20:21
➡	Rhodes Alvarez	24-Jul-2013 20:21
➡	Morris Guy	24-Jul-2013 20:21
➡	Curtis Sherman	24-Jul-2013 20:21
➡	Stella Schultz	24-Jul-2013 20:21

## Room Medicroix

31 people capacity 🐾 15



### last transactions

➡	Carter White	24-Jul-2013 20:21
➡	Kellie Dodson	24-Jul-2013 20:21
➡	Fran Sloan	24-Jul-2013 20:21
➡	Tonia Neal	24-Jul-2013 20:21
➡	Carter White	24-Jul-2013 20:21
➡	Nash Sharpe	24-Jul-2013 20:21

**Thanks**