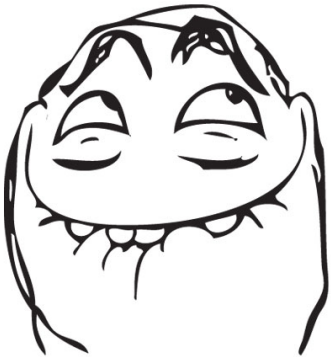


METER



~~No more REST~~

What is MeteorJS?

- Open source JS web framework
- Built using Node.js
- Rapid Prototyping Tool
- Cross Platform Development
- Uses web sockets (SockJS)



Other Node.js Frameworks



Expressjs



Why Meteor.js?

- RAPID PROTOTYPING
- DDP connections
- Reactivity out of the box
- Supports React/Angular/Blaze
- Massive community support
- Security baked right in
- On the come up, \$20M+ in funding
- Cordova (Android/iOS support)

3rd Party Libraries



What can I make in an hour?

Full Fledge Chat System

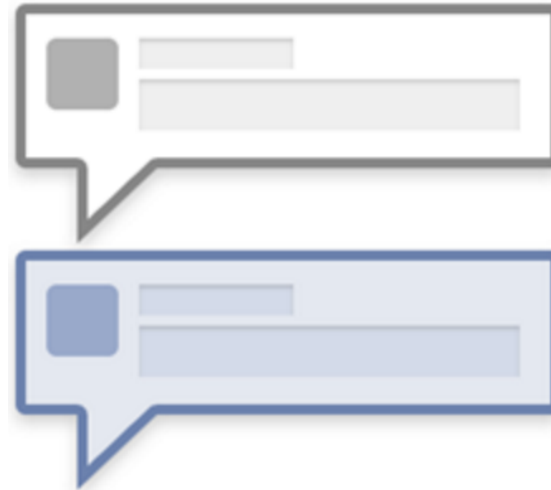
- Unread/Read
- Notifications
- Chat box updating nicely
- Chat message logging

Online Blackboard

- Two person drawing in real time

Mini Facebook

- Online/Offline users
- Posts, walls



Installation

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

Example App

To create the app, open your terminal and type:

```
meteor create simple-todos
```

To run the newly created app:

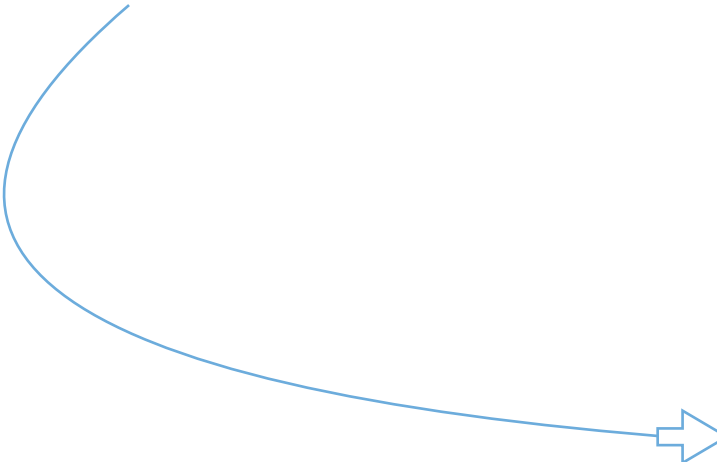
```
cd simple-todos  
meteor
```

Open your web browser and go to

`http://localhost:3000` to see the app running.

Important Files

```
simple-todos.js      # a JavaScript file loaded on both client and server
simple-todos.html    # an HTML file that defines view templates
simple-todos.css      # a CSS file to define your app's styles
.meteor              # internal Meteor files
```



```
[Ihsans-MBP:.meteor ihsan$ ls
identifier      packages        release
local           platforms      versions
```

System Files

packages

> Important to know what packages your project includes.

> Packages are great because you don't have to code internals

> Packages can become heavy if you don't keep track of what you're using

```
# Meteor packages used by this project, one per line.
# Check this file (and the other files in this directory) into your repository.
#
# 'meteor add' and 'meteor remove' will edit this file for you,
# but you can also edit it by hand.

meteor-platform

iron:router
sacha:spin
accounts-password
sergeyt:typeahead
u2622:persistent-session
tomi:upload-server
tomi:upload-jquery
accounts-base
naxio:flash
raix:handlebar-helpers
cfs:standard-packages
cfs:gridfs

mizzao:autocomplete
mizzao:user-status
"packages" 31L, 639C
```



System Files

release

> Current version of Meteor


> Meteor changes frequently, updates can break current packages

9 days ago 

release/METEOR@1.3-modules-beta.4 


 211fda2  zip  tar.gz

11 days ago 

release/METEOR@1.3-modules-beta.3 

 0b690a6  zip  tar.gz

28 days ago 

release/METEOR@1.3-modules-beta.2 

 a3f3283  zip  tar.gz

Spacebars (Handlebars)

Supported by the Blaze Tempting Engine

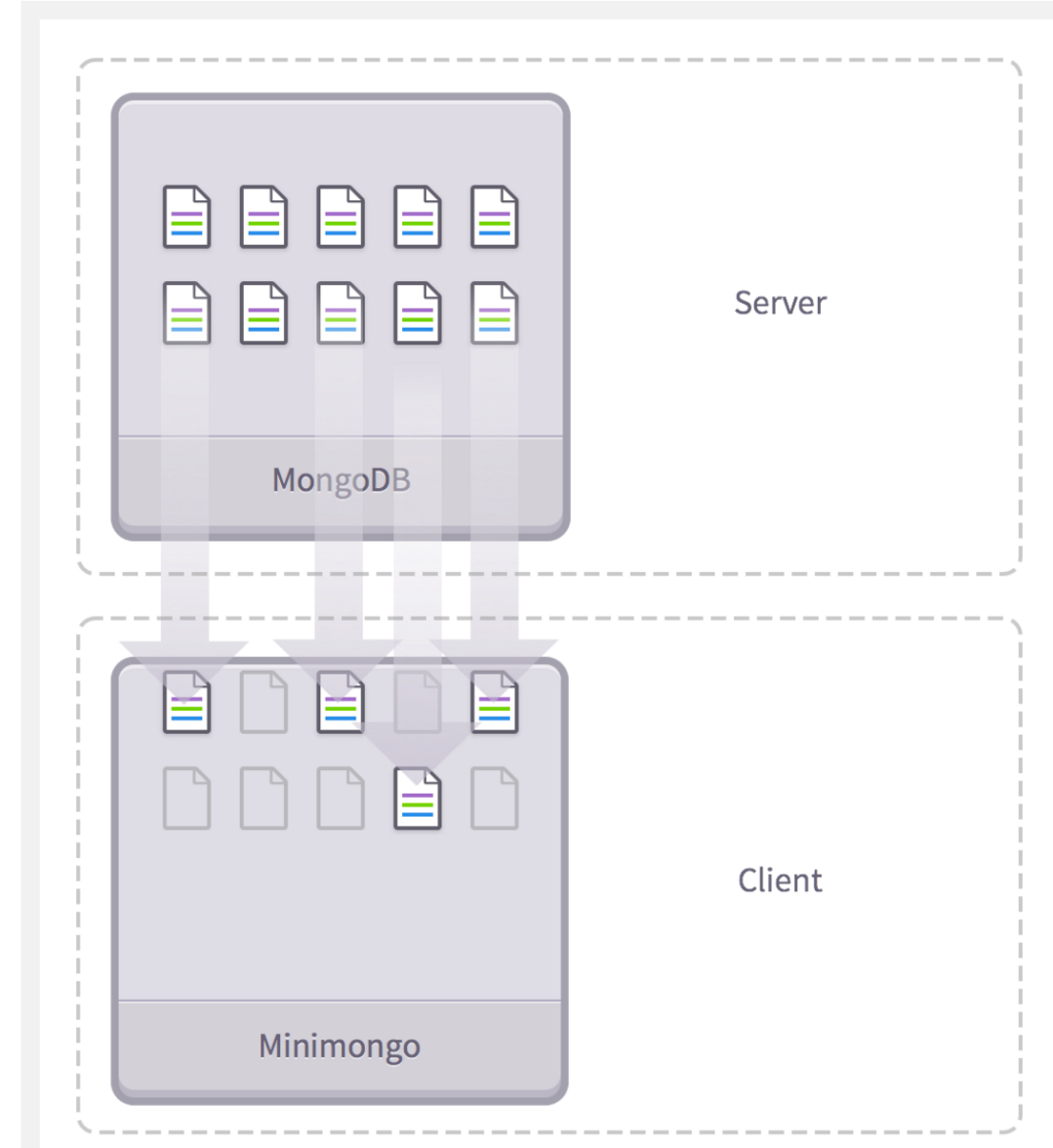
```
{{#if something}}  
  <p>It's true</p>  
{{else}}  
  <p>It's false</p>  
{{/if}}
```

Can inject data into the template



Publishing/Subscribing Data

- Server PUBLISHES (chooses what data to send) to client
- Client SUBSCRIBES (picks what data it wants)
- Pub/Sub have to agree for data transmission



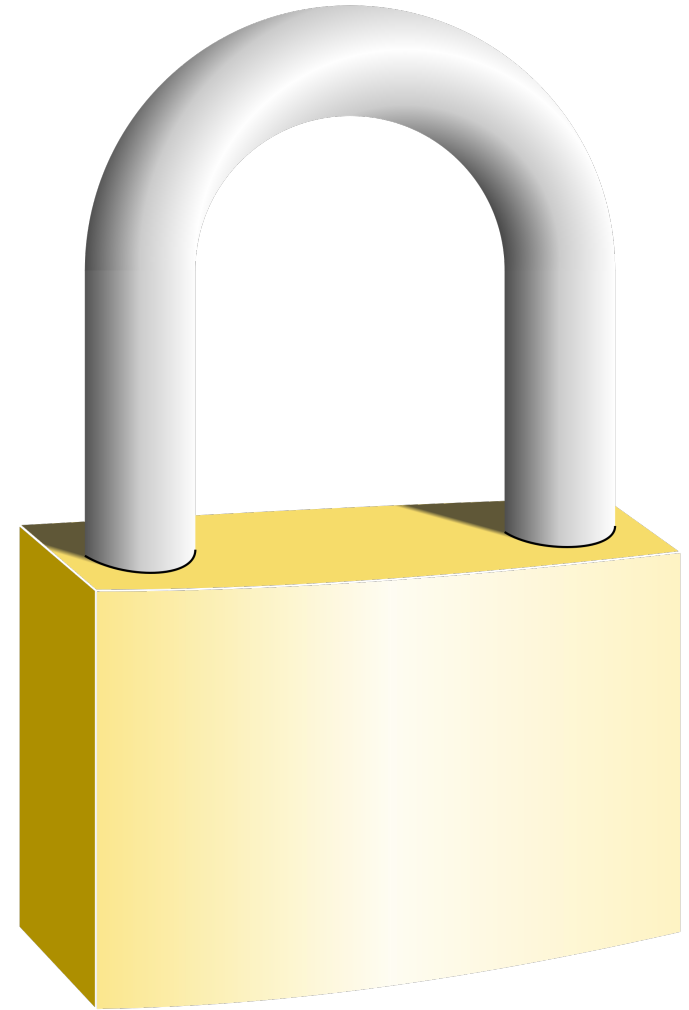
Reactivity

```
Template.hello.helpers({  
  counter: function () {  
    console.log('Counter helper is running')  
    return Session.get('count');  
  }  
});
```

- counter is reactive when *count* changes, counter will update itself
- counter is reactive

Security

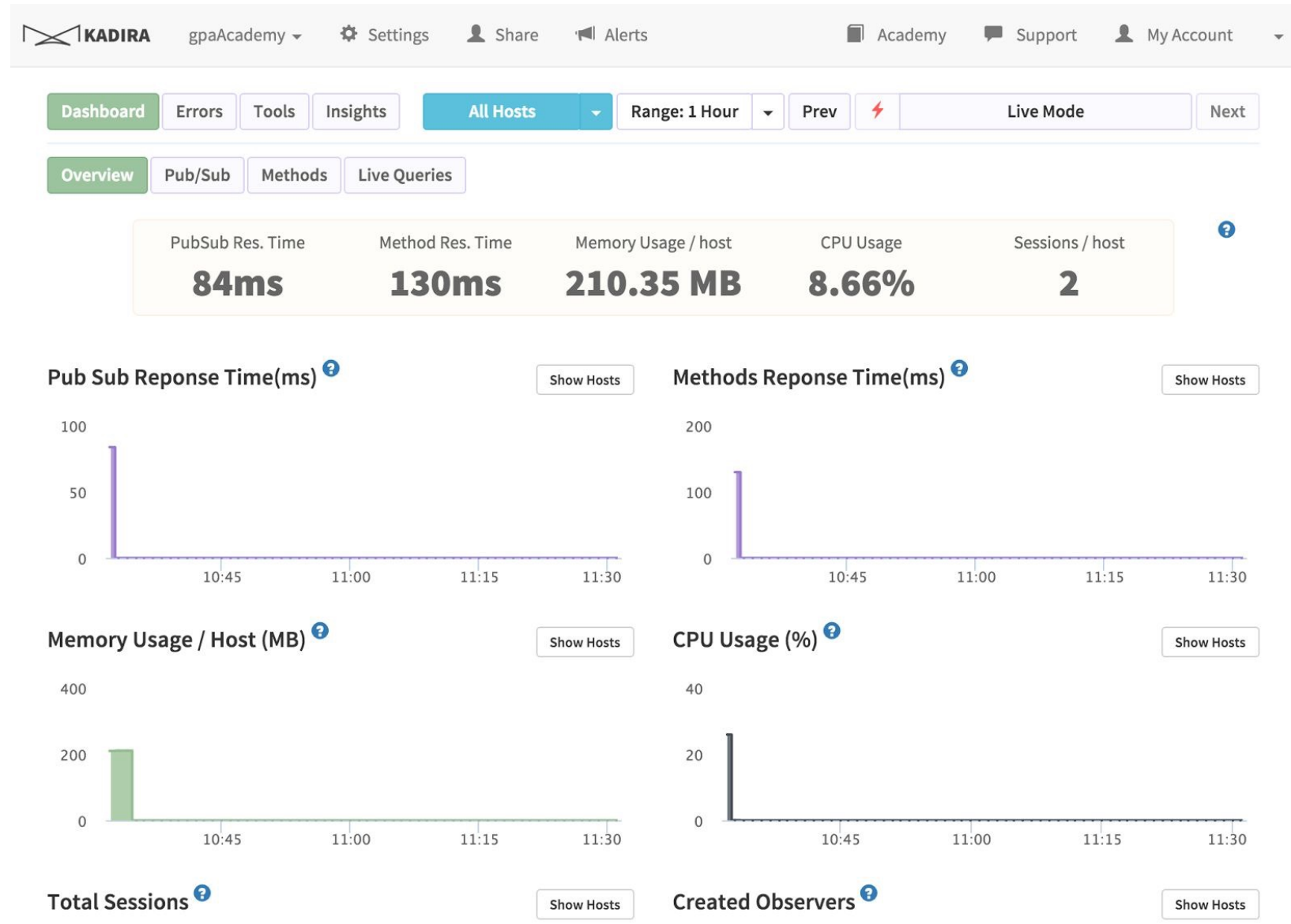
- Restrict PUBLISH data
- LocalStorage is used, no cookies/tokens
- Web sockets transmit data, encrypted
- Built in support for DDoS attacks
- DB ORMS protect against SQL injections
- XSS prevented by match.js built into Meteor



Analysis/Debugging

kadira.io

- Pub/Sub times
- Errors
- CPU/Ram usage
- Methods being hit the most



Now it's time for the demo! :)

