

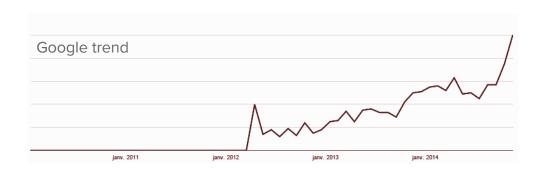


nov. 2014 - Nicolas





Meteor is a **full stack** open source platform for building web and mobile apps in pure **JavaScript**.









Principles of Meteor



One Language Everywhere



Both client and server parts are written in JavaScript.



Database Everywhere



You can use the **same methods** to access your database from the **client** or the **server**.

Full Stack Reactivity



Realtime is the default.

All layers, from database to template, update themselves automatically when necessary.



Latency Compensation



On the client,

Meteor prefetches data making it look like server answer instantly.



Modular & Unified Packages



Packages work identically on browsers, servers and mobile devices

Packages can be replaced easily to fit needs



Rich Ecosystem



- Easy deployment
- Meteor servers to run prototypes or production apps
- Testing environment
- Bug reporting
- 3k+ packages availables





Let's start

https://github.com/zallek/meteor-introduction





Accessible on both clients & server using the same MongoDB syntax.

```
Messages = new Mongo.Collection("messages");

// Insert new message
Messages.insert({
   createdBy: Meteor.userId(),
   room: 12,
   createdAt: new Date(),
   content: "Glad to be there"
});
```

```
// Find message
var message = Messages.findOne({
    $or: [
        {createdBy: Meteor.userId()},
        {content: {$regex: /^Glad/}}
    ]
});
```





Servers publish data, clients can subscribe to

```
// Server: Publish messages for a given room
Meteor.publish("messages", function (roomId) {
   check(roomId, Number);
   return Messages.find({room: roomId});
});

// Client: Subscribe to a room
// Subscription is automatically updated
// when roomId session variable change
Session.set("roomId", "7");
Tracker.autorun(function () {
   Meteor.subscribe("messages", Session.get("roomId"));
});
```

```
// Server: Define rules
Messages.allow({
  insert: function (userId, message) {
    // can only create a message in your room and
    // creator should match your userId
    return userId && message.createdBy === userId &&
           message.room === Session.get("roomId", userId);
  update: function (userId, doc, fields, modifier) {
    // can only change your own posts
    return doc.createdBy === userId;
  remove: function (userId, doc) {
    return true;
});
```





API methods can be defined for complex data processing

```
// Client: Asynchronous call
Meteor.call('commentPost', 10, "So easy",
  function (error, result) {
   if (error) {
      // handle error
   } else {
      // examine result
   }
  }
}
```

Templating



By default, Meteor use **Blaze** and **Spacebars** to render templates

```
<template name="postsList">
   {{#each posts}}
   {{content}}
   {{/each}}
</template>
```

```
Template.postsList.helpers({
   // post helper: return the list of
   // all posts client has subscribe to
  posts: function () {
    return Posts.find();
  }
});
```

```
Template.addPost.events({
   // add post on form submit
   "submit form": function (event, template) {
    var content = event.target.content.value;
    Posts.insert({"content": content});
  }
});
```



Want more?



More features



- Built-in User Accounts
 - Password accounts
 - Facebook, Google, Twitter (...) accounts
- Custom Reactive Data
- Easy OAuth encryption

New in 1.0



- Mobile App Development
- Redis support (beta)
- Testing
- Bug Reporting
- Improve security
- Improve documentation



Future



- Compatibility with SQL Databases
- Improve performance
- Internationalization
- Widgets system

-

https://trello.com/b/hjBDflxp/meteor-roadmap





Pros & Cons



Pros



- Productivity
- Easy clients synchronisation
- Modular
- Frequently updated

Cons



- Scalability
 - Static files delivery
 - Clients data synchronisation
 - Persistants connections to each client

https://meteorhacks.com/does-meteor-scale.html



Thank you



Get informed



github.com/meteor/meteor

meteorhacks.com

meetup.com/Meteor-Paris

