

Meteor Smart Packages

Seamlessly add functionality and integrate
with third-party tools and services

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In your web app, how hard is it (or was it) to

- **Switch from CSS to LESS or from Javascript to Coffeescript**
- **Support offline browsing using HTML5 appcache**
- **Integrate with Facebook, Twitter, or Google for user accounts**
- **Send email**
- **Detect and display which users are currently on-line**

These should be easily
available to any web app

In order to achieve this, we
need a full-stack, all-
encompassing platform for
building web apps

**Meteor is a radically faster,
radically easier platform for
Internet-scale thick client
applications**

Smart Packages add these
bits of functionality to your
app

Principles of Meteor

- **Data on the Wire, not HTML**
- **Pure Javascript, same APIs on client and server**
- **Database Everywhere**
- **Reactivity - redraw the screen automatically when data changes**
- **Latency Compensation - don't wait for the server unless you need to**
- **Painstaking attention to detail, ensuring a smooth learning curve**

Meteor internals (not to scale)

build tools [tools/]:
create, run, deploy, bundle, use
smart packages

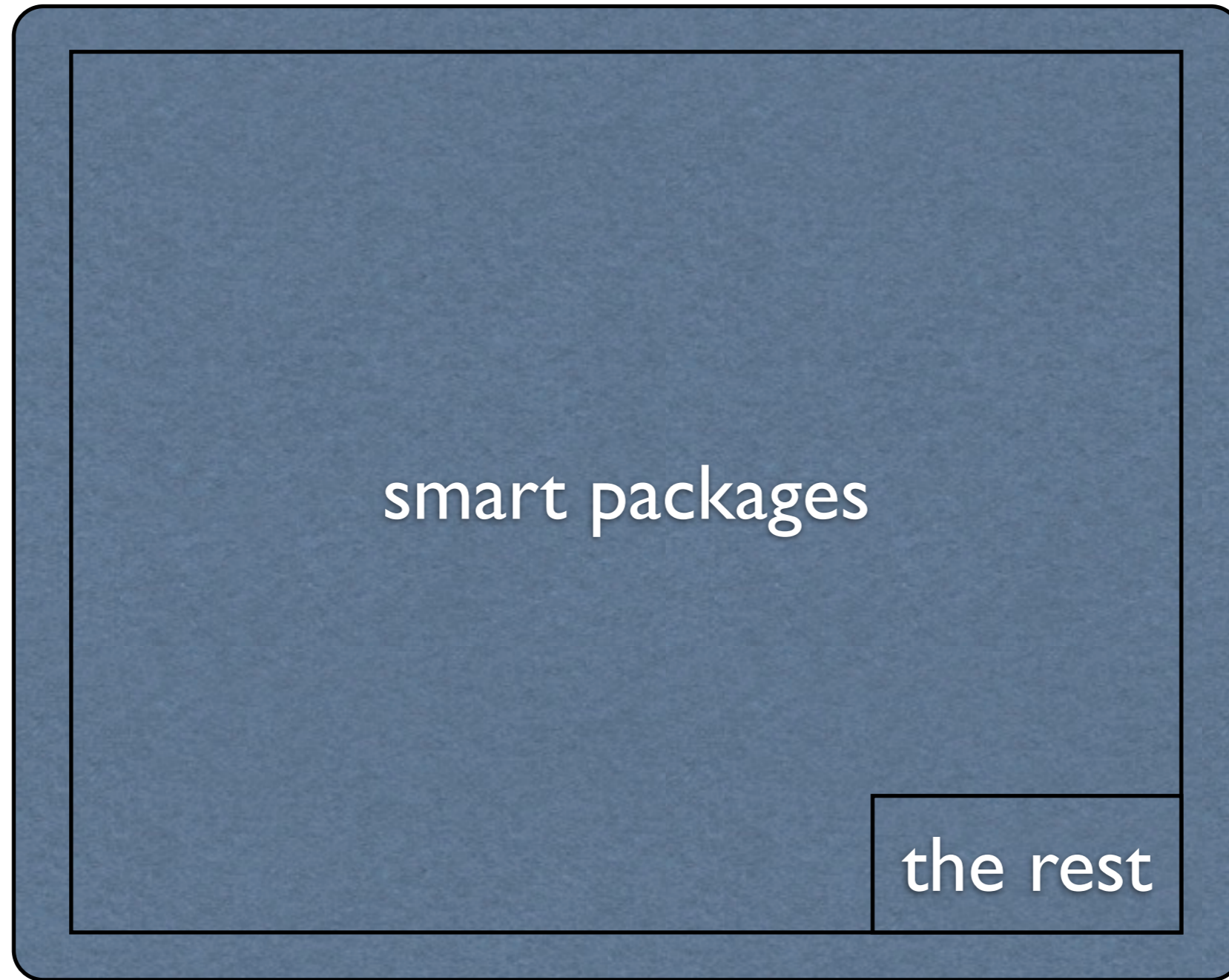
smart packages [packages/]:
small programs that add
functionality to your app

docs/

examples/

scripts/

Meteor internals (to scale)



Notable core smart packages

- **livedata: implements DDP, the real-time client-server protocol**
- **mongo-livedata: efficiently polls Mongo, exposing DDP endpoints**
- **minimongo: full Mongo API on client**
- **spark: reactive templates and re-rendering**
- **reload: hot code reload - reload app into the same state when code changes**

Smart Packages

- **More than just code!**
- **Hooks into client, server, build tools, hosting platform**
 - jquery, bootstrap: adds code to client
 - less, coffeescript: preprocesses during app bundling process
 - http: simple API to make HTTP calls on client and server
 - accounts-{facebook, google, twitter, ...}: deep integration on client and server
 - email: adds API on server, automatically provisions Mailgun account with `meteor deploy`

Let's see it in action!
(not in the slides)

In summary

- **Meteor Smart Packages add bits of functionality to any Meteor app**
- **They can do basically anything**
- **They just work, out-of-the-box**
- **There are a lot more to build!**

Getting Started

- **docs.meteor.com**
- **github.com/meteor/meteor**
- **meteor-talk@googlegroups.com**
- **themeteorbook.com**
- **eventedmind.com**
- **atmosphere.meteor.com**