

Introduction *node.js* using

Gerred Dillon
@justicefries

Introduction *JavaScript*

JavaScript **1996**

JavaScript **present**

JavaScript **syntax**

JavaScript **syntax**

variables

JavaScript **syntax**

variables

data structures

JavaScript **syntax**

variables

data structures

functions

JavaScript **syntax**

variables

data structures

functions

basic operators

Introduction *node.js*

node.js
2009

node.js
present

node.js



Node.js is a platform built on **Chrome's JavaScript runtime** for easily building fast, scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

Current Version: v0.8.11

INSTALL

DOWNLOADS

API DOCS

node.js

Chrome JS
runtime
(aka V8)

node.js

event-driven

node.js

event-driven

```
1 req.on('data', function(chunk) {  
2     console.log(chunk)  
3 })
```


node.js

non-blocking

node.js

non-blocking



node.js

non-blocking



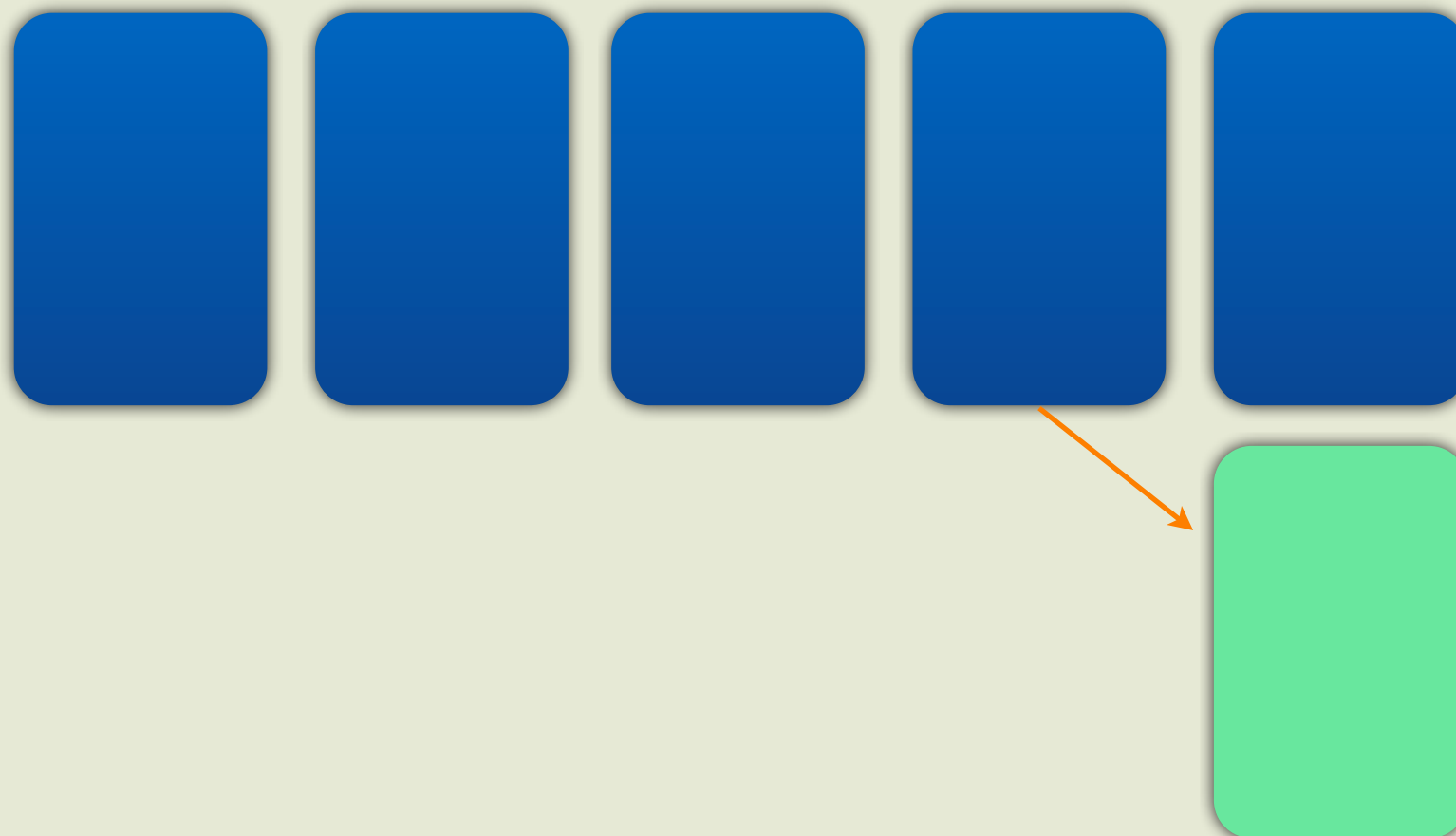
node.js

non-blocking



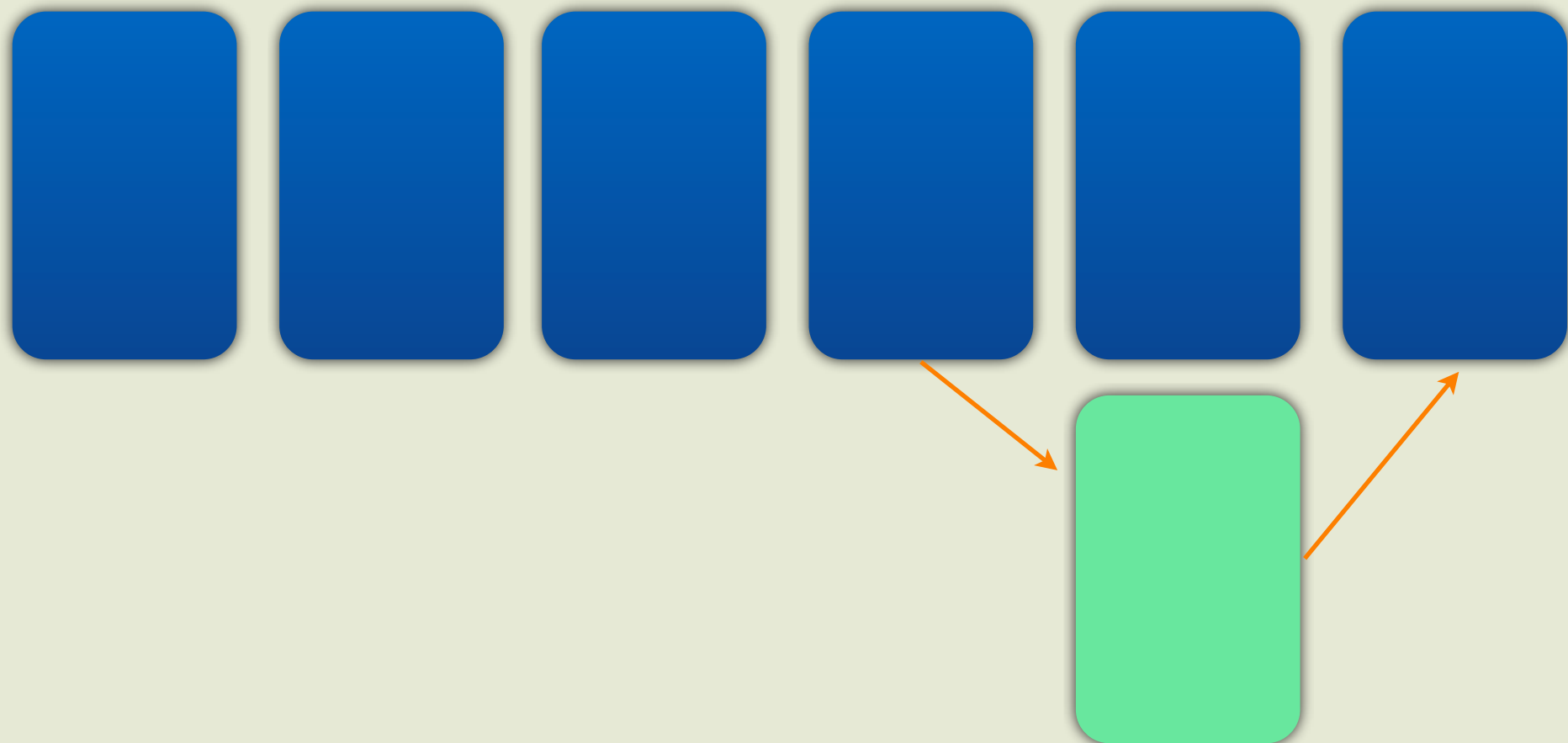
node.js

non-blocking



node.js

non-blocking



node.js

I/O Model

*node.js is really
good at I/O*

***node.js is less
good at CPU-
intensive tasks***

*(aka don't create a
Fibonacci server)*

1	1	2	3	5	8	13	21
---	---	---	---	---	---	----	----

*(okay, maybe- we'll talk
about this later)*

my first
server
(hello, world!)

*my second
server
(serving a file)*

*my second
server
let's make it
synchronous*

*my second
server
~~let's make it~~
~~synchronous~~*

modules
node.js
and other interesting things

***“that’s great and
all, but I don’t
want to reinvent
(x)”***

Node Package Manager

npmjs.org

CommonJS
provides
explicit dependencies

npmjs.org

*my third
server*

(let's use express)

CommonJS
provides
explicit dependencies

npmjs.org

Exposing **custom functionality** *to node.js*

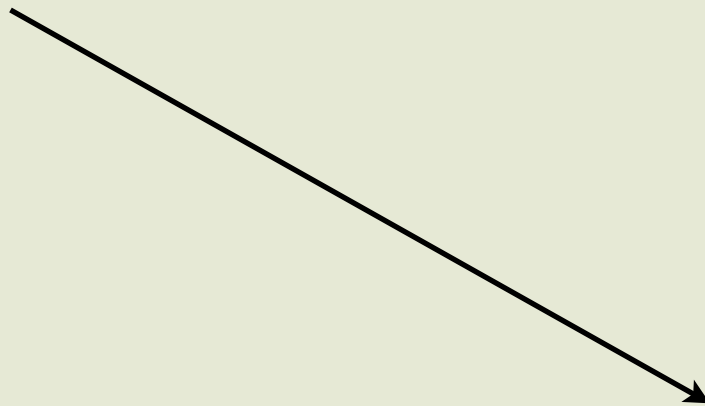
npmjs.org

Streams
create powerful
abstractions

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abstractions

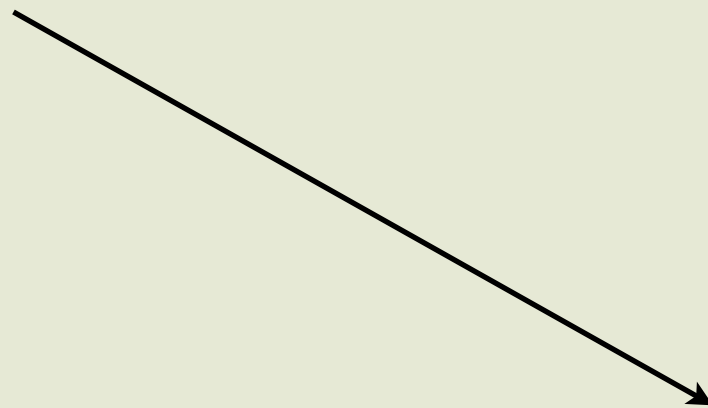
pipe()

ReadStream



WriteStream

ReadStream



WriteStream

(reversed in code)

Flow Control

with
node.js

**Like how do I iterate
asynchronously?**

**Like what if I really,
really want to
calculate this?**

The Guts of *node.js*

EventEmitter
is the core
of node.js

Moving Forward
Read the API
Build Apps
Get Involved
Use npmjs.org
Use GitHub

Resources:

<http://nodejs.org/api/>

Smashing Node

Questions?