

INTRODUCTION TO THE SCALABLE JAVASCRIPT APPLICATION FRAMEWORK

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Introduction

In each **layer of responsibility**,
modules know each other and the layer below



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modules know each other and the layer below



Your Application Modules

Framework Core

Framework Base

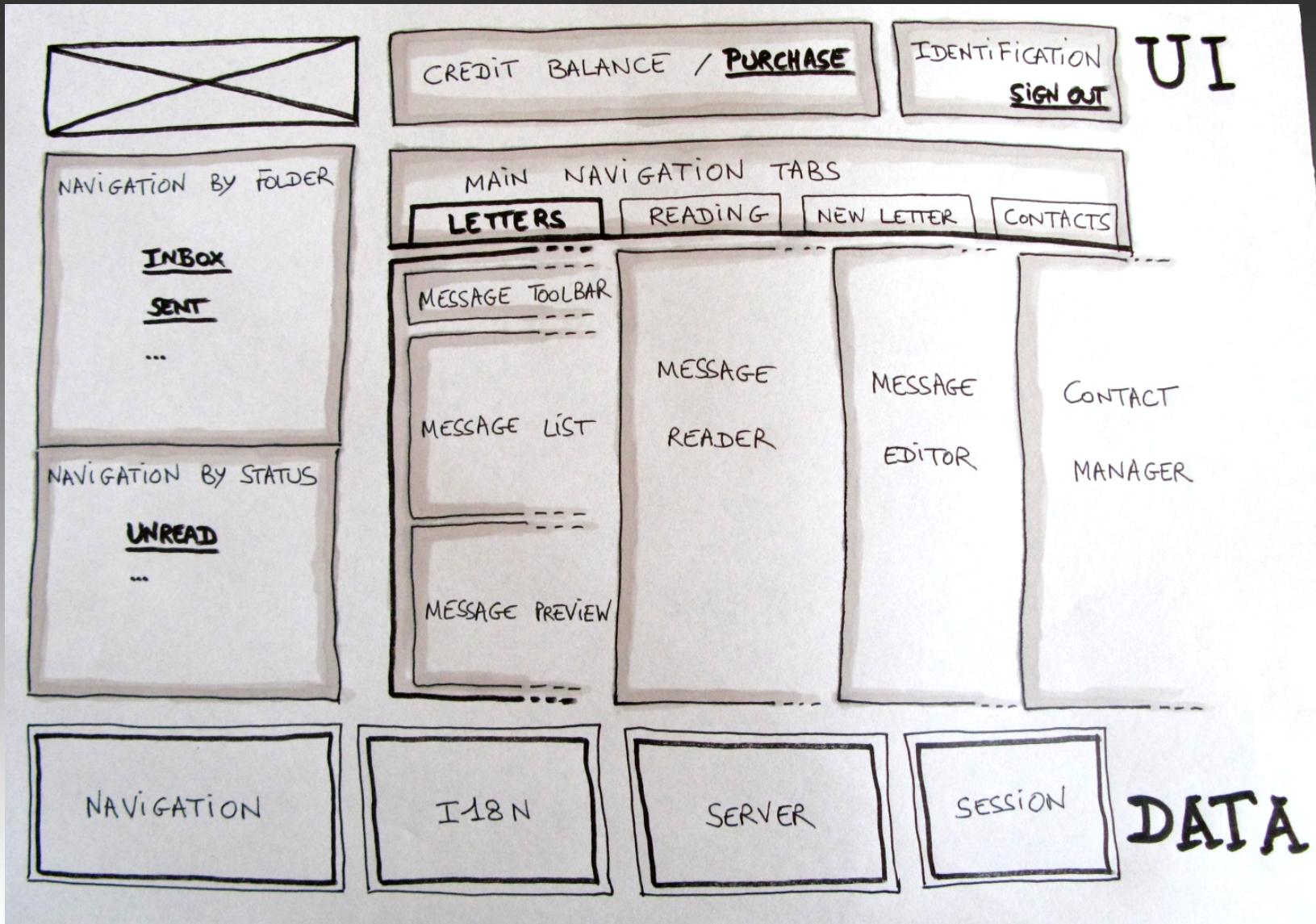
Cross-Browser Library



Browser JavaScript Engine



THIS
WAY



Application modules don't talk to each other.
They **publish and subscribe** to application events.

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MESSAGE LIST

Date	Sender	Title	Recipients	Status	Type	Folder
27 A	J-D	Re: —	L-F., F-C	<input checked="" type="checkbox"/> X	S E	Sent
27 A	M-S	[Ur-] —	Z-H., M-C	<input type="checkbox"/>	S E	Inbox
26 A	B-G	— ?	C-D., A-P	<input checked="" type="checkbox"/>	R E	Inbox
22 A	S-J	RE: —	L-F.	<input checked="" type="checkbox"/>	S E	Sent
17 A	J-D	— —	E-M., D-H	<input type="checkbox"/> 1	R E	Sent
3 A	L-A	— —	M-N —	<input checked="" type="checkbox"/>	S E	Inbox
31 M	L-F-C	— —	S-N —	<input type="checkbox"/> 1	S E	Inbox
28 M	C-C	— —	H —	<input checked="" type="checkbox"/> 1	S E	Inbox

CLICK

DOUBLE-CLICK

- MESSAGE
SELECTED -

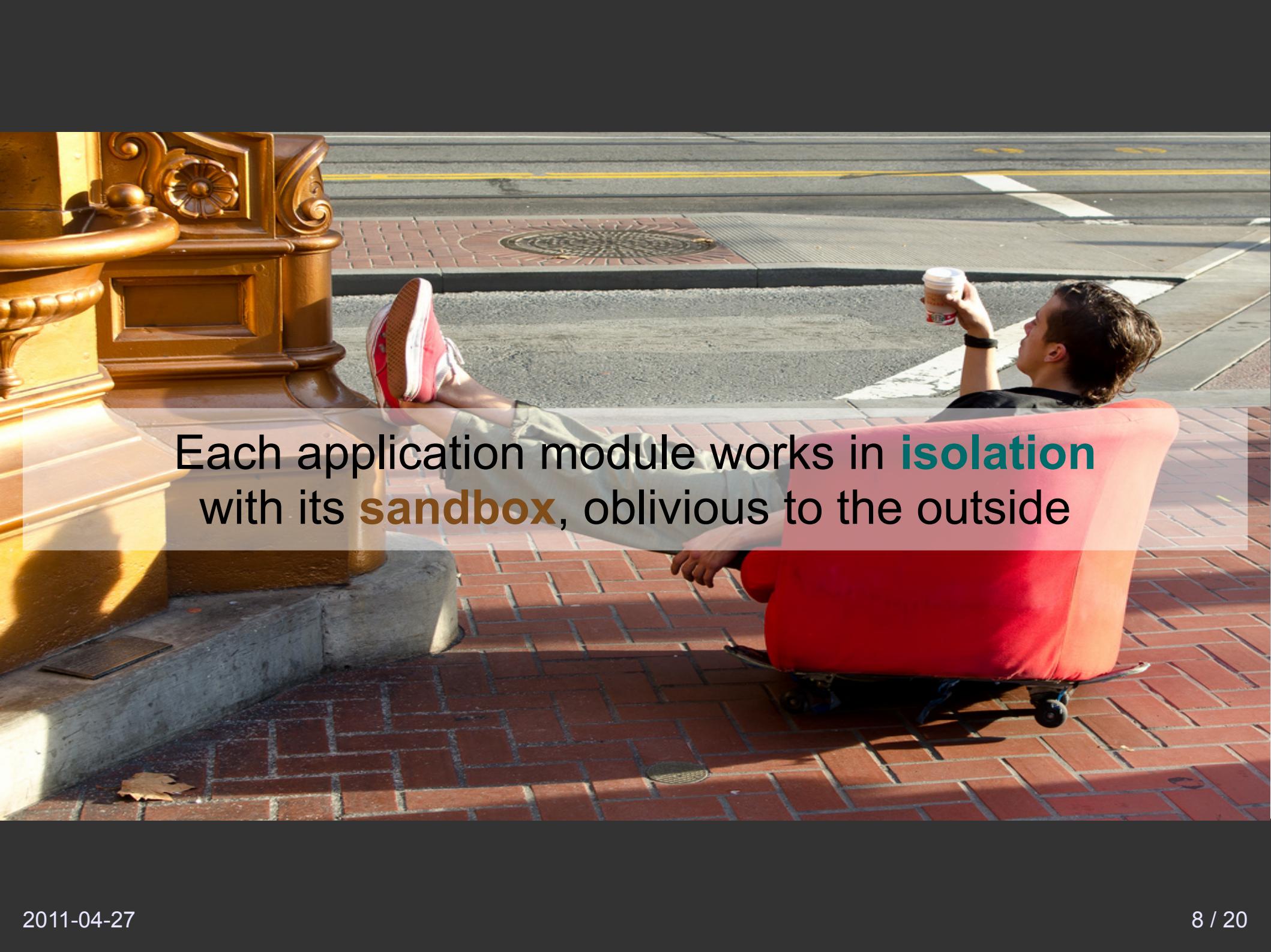
- OPEN
MESSAGE -

SANDBOX

- NEW MESSAGE LIST -

- NEW MESSAGE -

- NAVIGATION CHANGE -

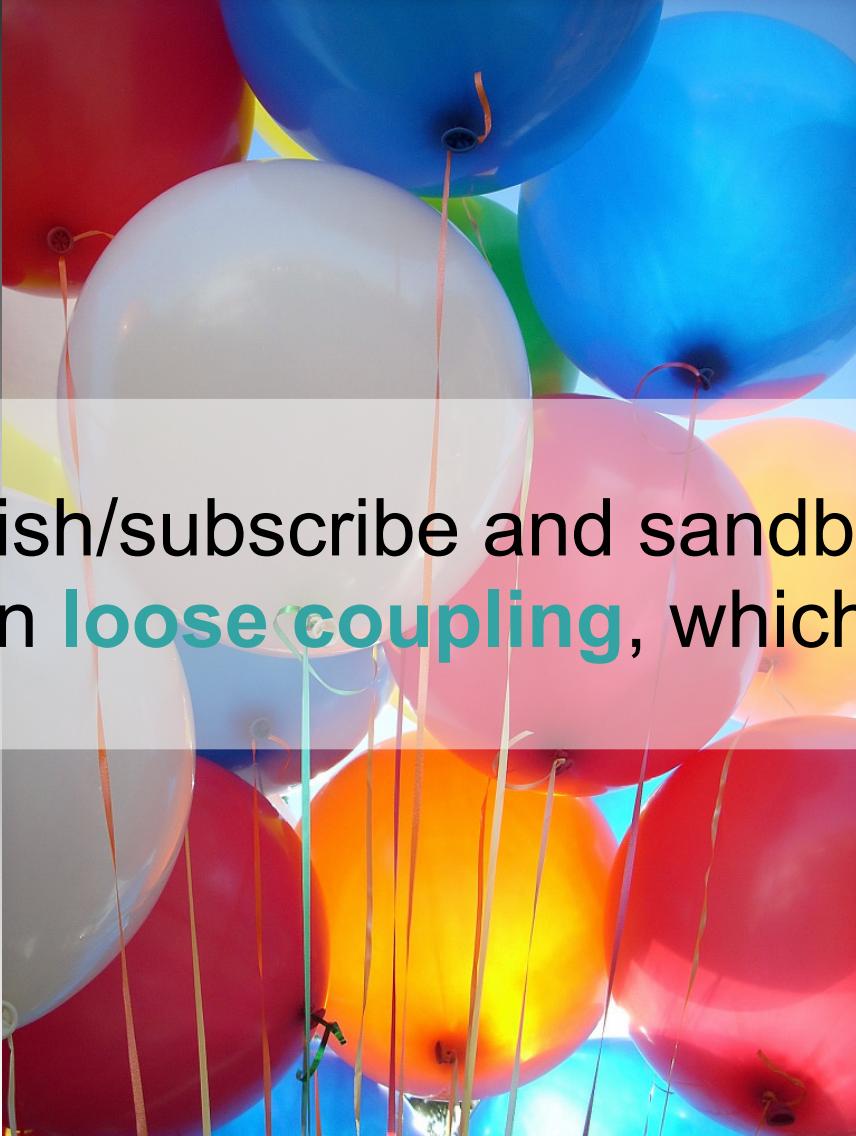


Each application module works in **isolation**
with its **sandbox**, oblivious to the outside

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Pros and Cons

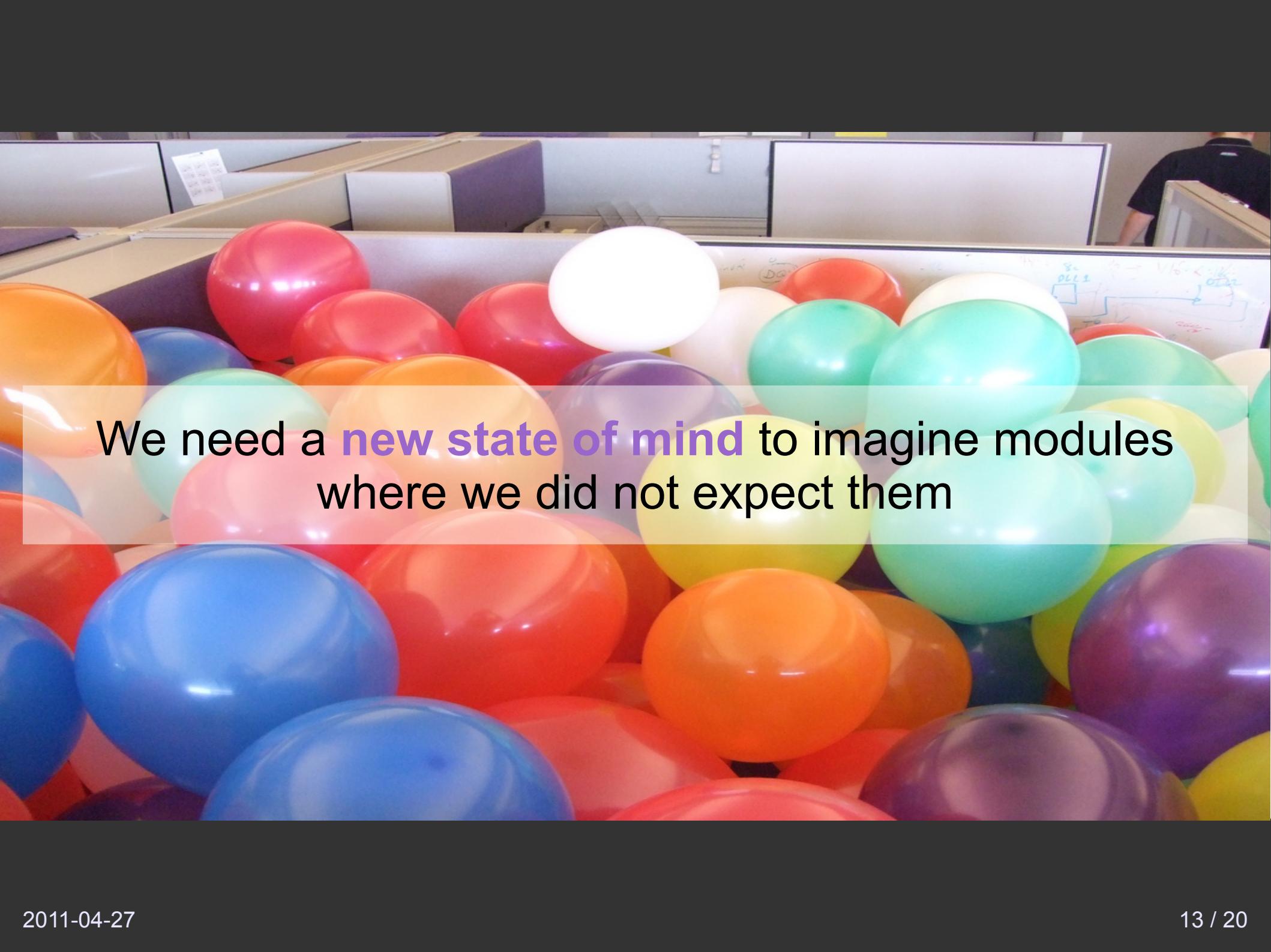


Publish/subscribe and sandboxing
result in **loose coupling**, which is nice

lb.ui.fileUploader.js + (~/www/lb_js_fileUploader/src) - VIM

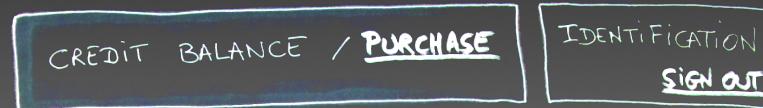
```
function onNewSession(event){$  
    // Function: onNewSession(event)$  
    // Callback for new session event.$  
    // $  
    // Store the user login and session identifier, needed to send queries to$  
    // the remote server.$  
    // $  
    // Parameter:$  
    //   event - object, the event properties$  
    // Event format:$  
    //   | topic: 'session'$  
    //   | type: 'new'$  
    //   | userId: '...', // user identifier, e.g. 'first.lastname'$  
    //   | sessionId: '...', // session identifier, e.g. 'WByLDysaTvjzwqXVt'$  
    //   | }$  
    setId(event.userId);$  
    setSessionId(event.sessionId);$  
}$  
lb.ui.fileUploader.js [+] 645,1 79%  
// Module Creation$  
subscribe({topic:'session',type:'new'},onNewSession);$  
lb.ui.fileUploader.js [+] 795,42 95%
```

Application modules subscribed to the same events
often end up with **duplicate code** for local
state and accessors, which is sad.

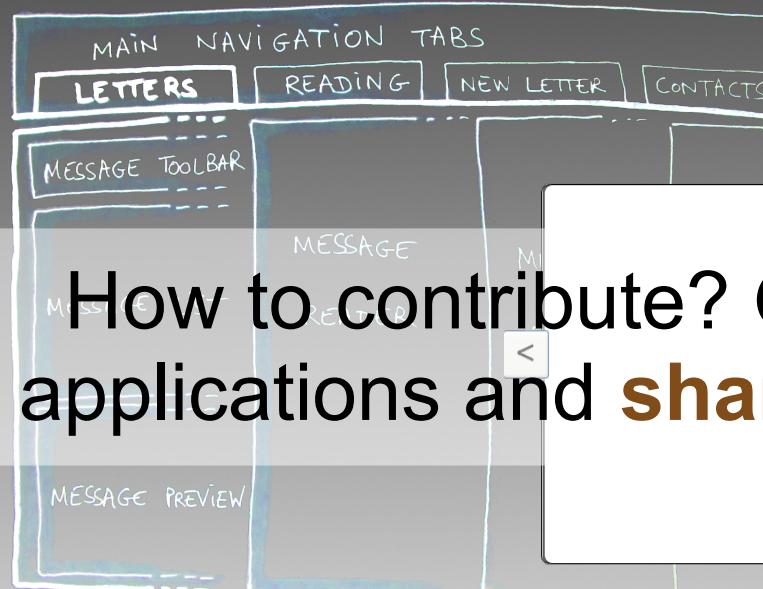
A photograph of a large pile of colorful balloons (red, orange, yellow, green, blue) in an office environment. In the background, there are office cubicles and a whiteboard with some writing on it.

We need a **new state of mind** to imagine modules where we did not expect them

How to Contribute?



UI

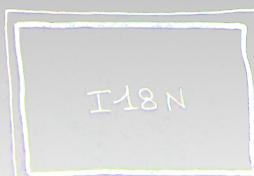


Let's FLIP!

page 1

page 2

How to contribute? Get the code,
write applications and share your experience



DATA

How to contribute? Fork the project on GitHub
and **suggest improvements**

https://github.com/legalbox/lb_js_scalableApp

Hint: JavaScript module loading

How to contribute? **Join Legal-Box.**
We're hiring!



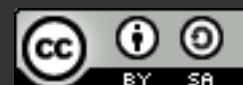
contact@legal-box.com

THANK YOU!

References

- Scalable JavaScript Application Architecture
by Nicholas C. Zakas
 - [Video](#) on Yahoo! Developer Network
 - [Slides](#) on Slideshare
- The Scalable JavaScript Application Framework
by Legal-Box
 - [Home Page](#) on GitHub
 - [Code](#) on GitHub

https://github.com/legalbox/introduction_to_lb_js_scalableApp



Credits

- Slide Template
 - Adapted from "tokyo-midtown-1.otp"
CC-BY-SA Chih-Hao Tsai
- Pictures
 - "Balloons" CC-BY befuddledsenses / Accretion Disc
 - "Make a wish..." CC-BY Theresa Thompson
 - "Skatechair" CC-BY-SA Max Braun
 - "Balloons make everything more fun"
CC-BY Waponi / Kathryn Decker-Krauth
 - "Office Prank" CC-BY-SA disterics

https://github.com/legalbox/introduction_to_lb_js_scalableApp

