



webhooks

jeff lindsay

WEBHOOKS AND THE FUTURE OF THE WEB



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WebHooks are the lightning bolts of
cloud computing.

2:27 PM Feb 17th from txt



jf

Joel Franusic

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webhooks are apparently the future of
the world <http://tinyurl.com/d28tww>

2:33 PM Feb 15th from TweetDeck



kylemathews



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I guess Web Hooks are now officially the
Next Big Thing.

3:21 PM Feb 16th from twitterrific



timbray

Tim Bray

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<http://blog.webhooks.org/> - web
hooks? the future of the web?

9:29 PM Mar 7th from twitturl

B blerz

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lovin the idea of web hooks
<http://webhooks.pbwiki.com/>

7:20 AM Apr 2nd from web



ahabman



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web hooks == evil

11:01 AM Mar 12th from BuddyMob



taozen

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**problem
solution
examples
implementation
inspiration
future**

problem?

**notifications
data syncing
chaining
modification
plugins**

**notifications
data syncing
chaining
modification
plugins**

“I wish I could get notifications exactly how I want.”

**notifications
data syncing
chaining
modification
plugins**

**“I wish my web apps
would keep overlapping
data in sync.”**

notifications
data syncing
chaining
modification
plugins

“I wish I could make
another app do
something when I use
this app.”

notifications
data syncing
chaining
modification
plugins

“I wish I could make
this app work just
slightly differently.”

**notifications
data syncing
chaining
modification
plugins**

**“I wish I could let my
users extend/build
plugins for my app.”**

**notifications
data syncing
chaining
modification
plugins**

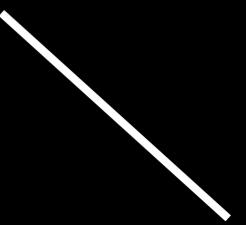


programmability

WEBHOOKS

The logo consists of the word "WEBHOOKS" in a bold, white, sans-serif font. The letter "O" in both "WEBH" and "OOKS" is replaced by a red icon. This icon features a white circle at the top, a horizontal line extending to the right, and a red semi-circle arching over the top of the line.

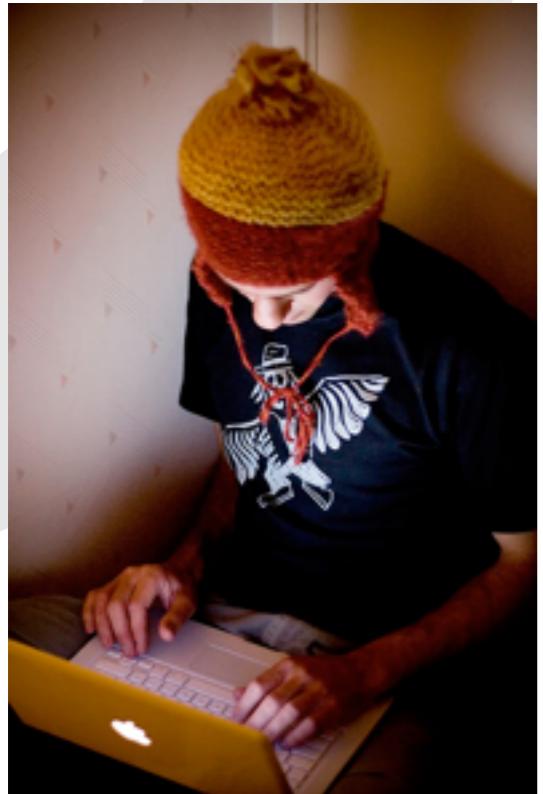
Huh?



web•hooks |'web,hoōks|

pattern of enabling user-defined callbacks
in web applications

us•er |'yoōzər|



call•back |'kôl,bak|

Program

$f(x)$

$f(x)$

$f(x)$

$f(x)$

$f(x)$

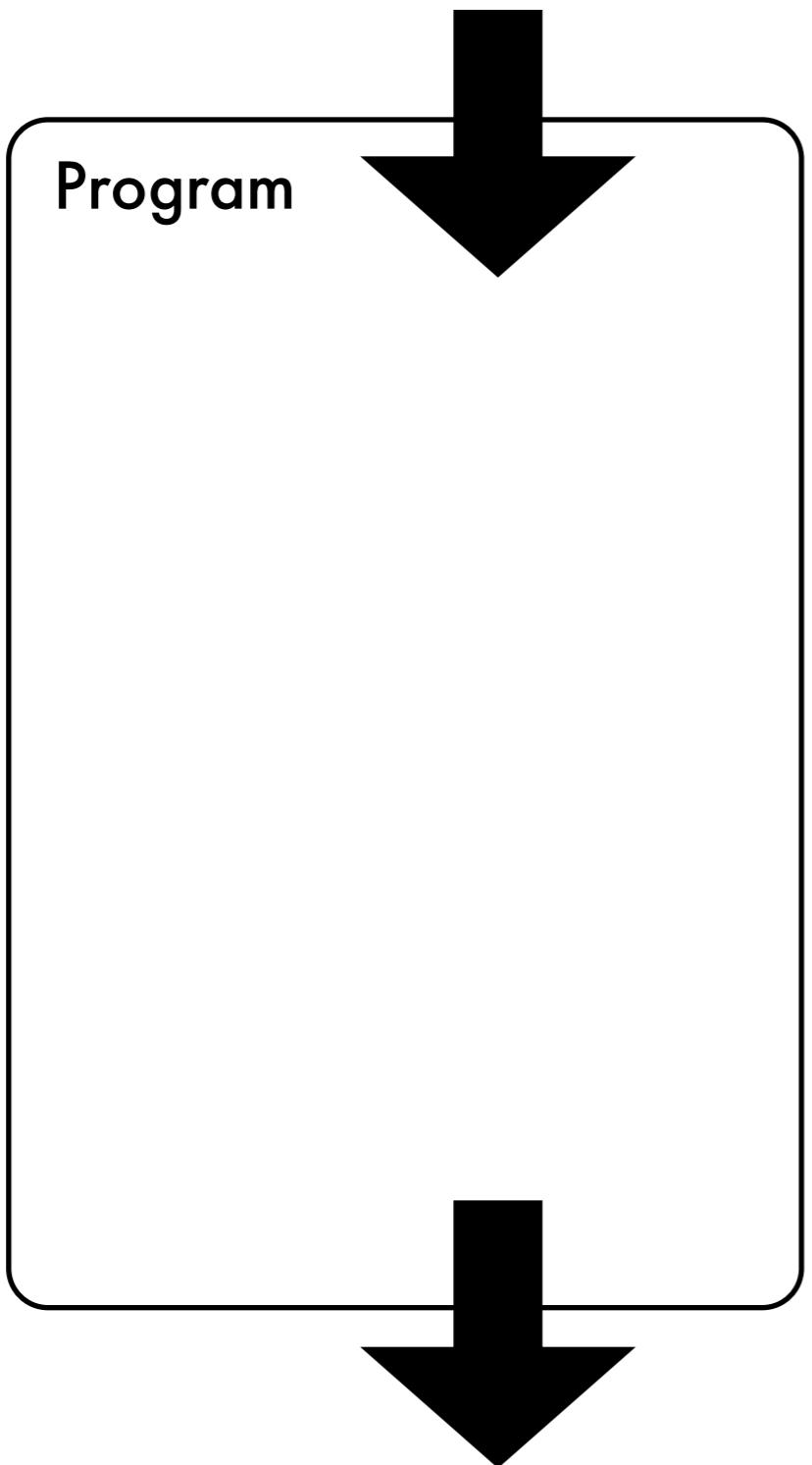
$f(x)$

$f(x)$

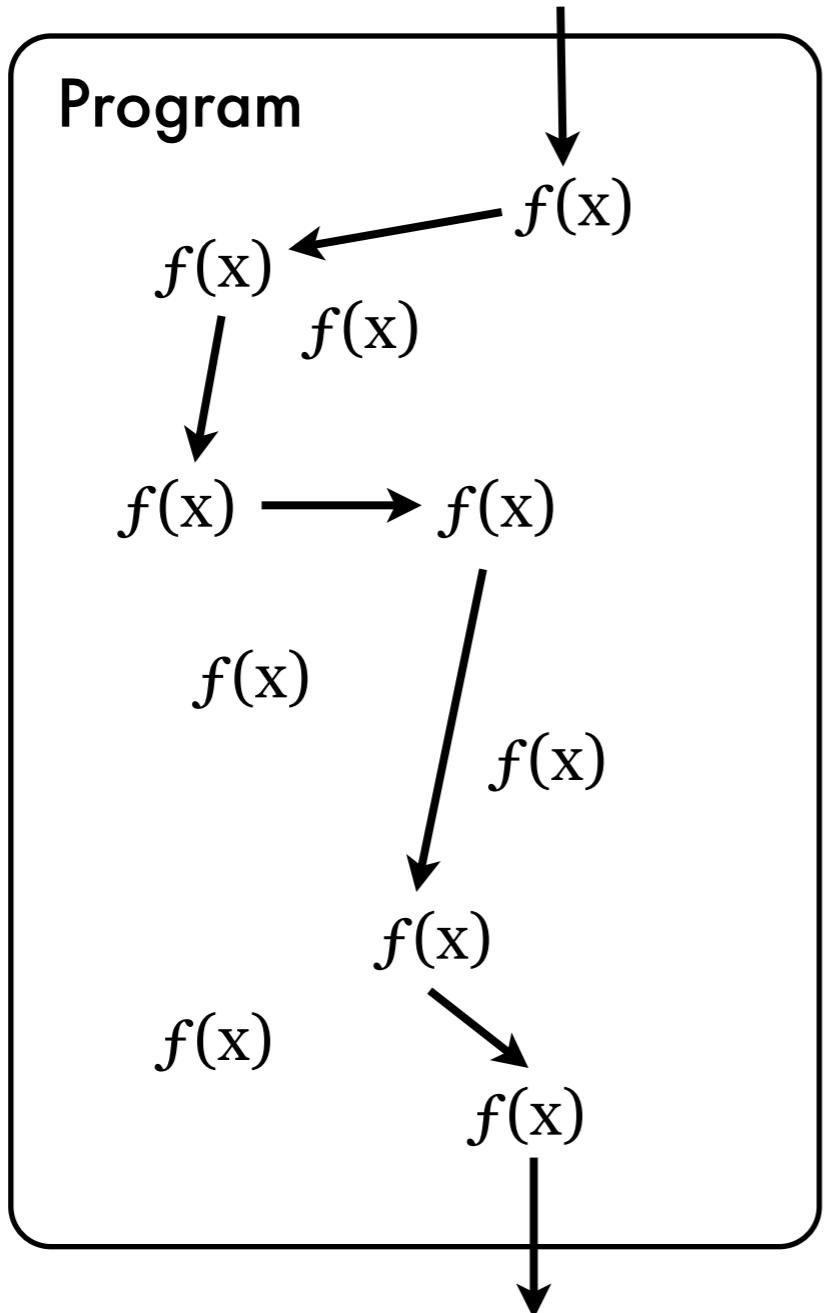
$f(x)$

$f(x)$

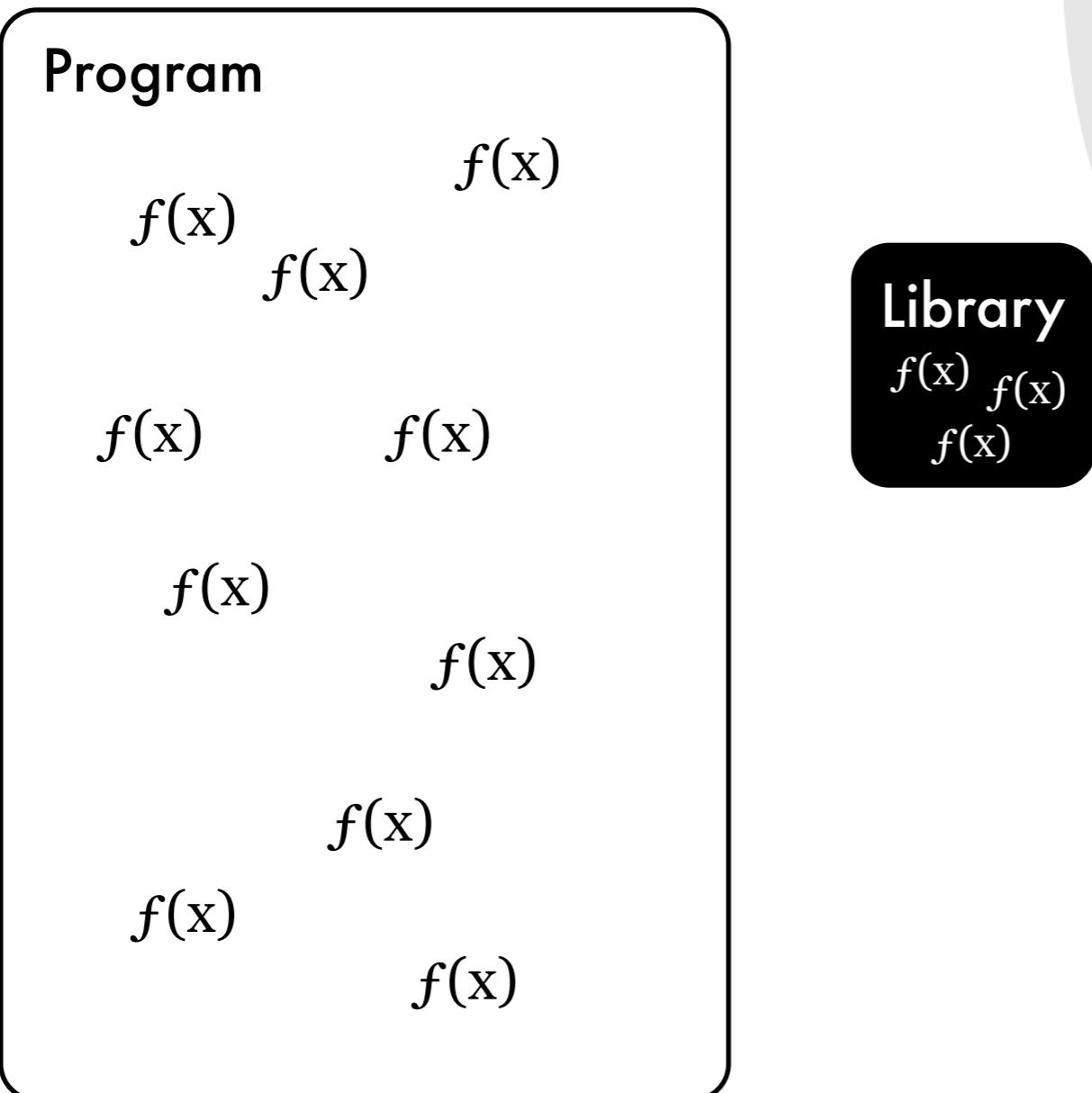
call•back |'kôl,bak|



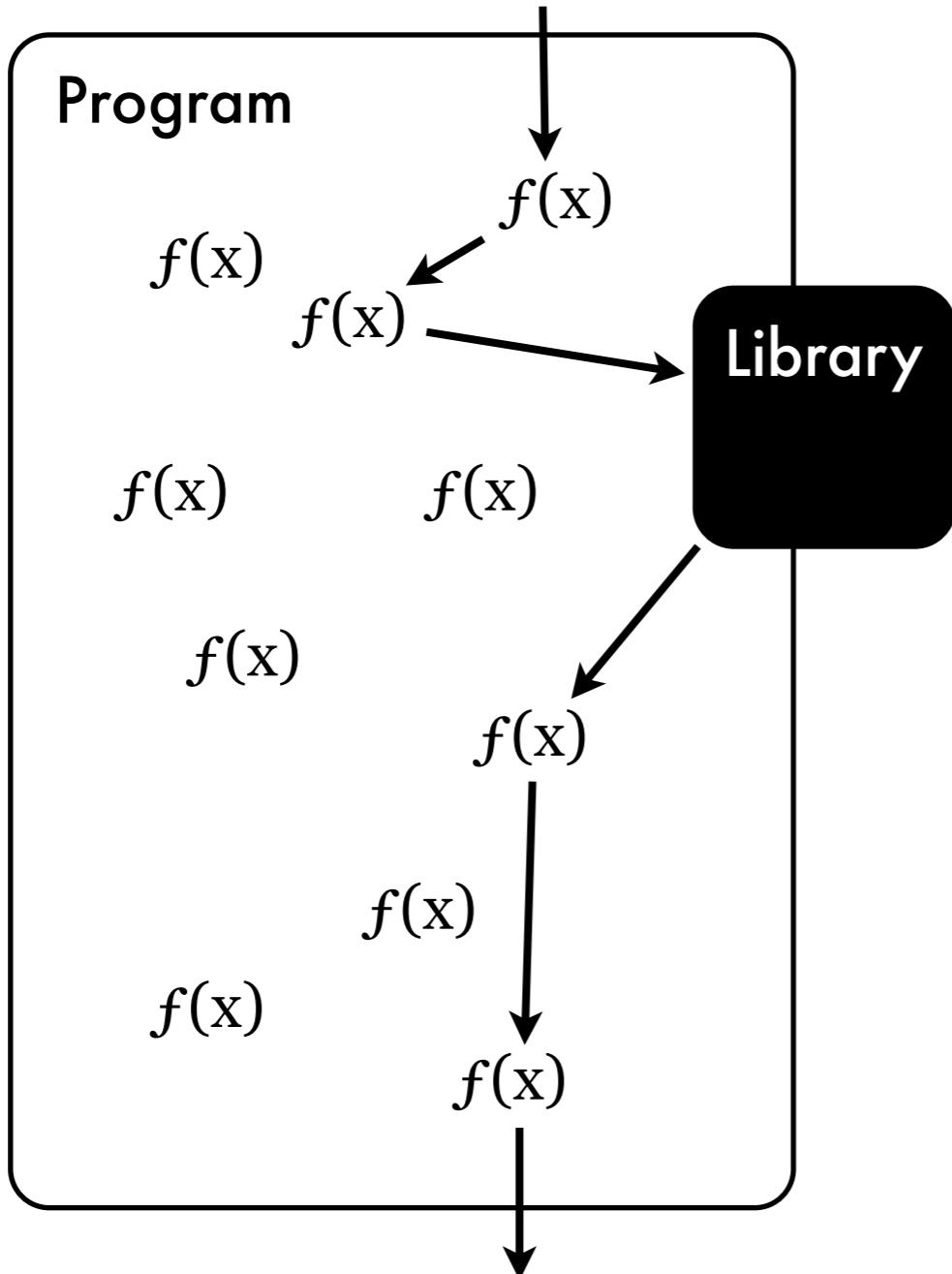
call•back |'kôl,bak|



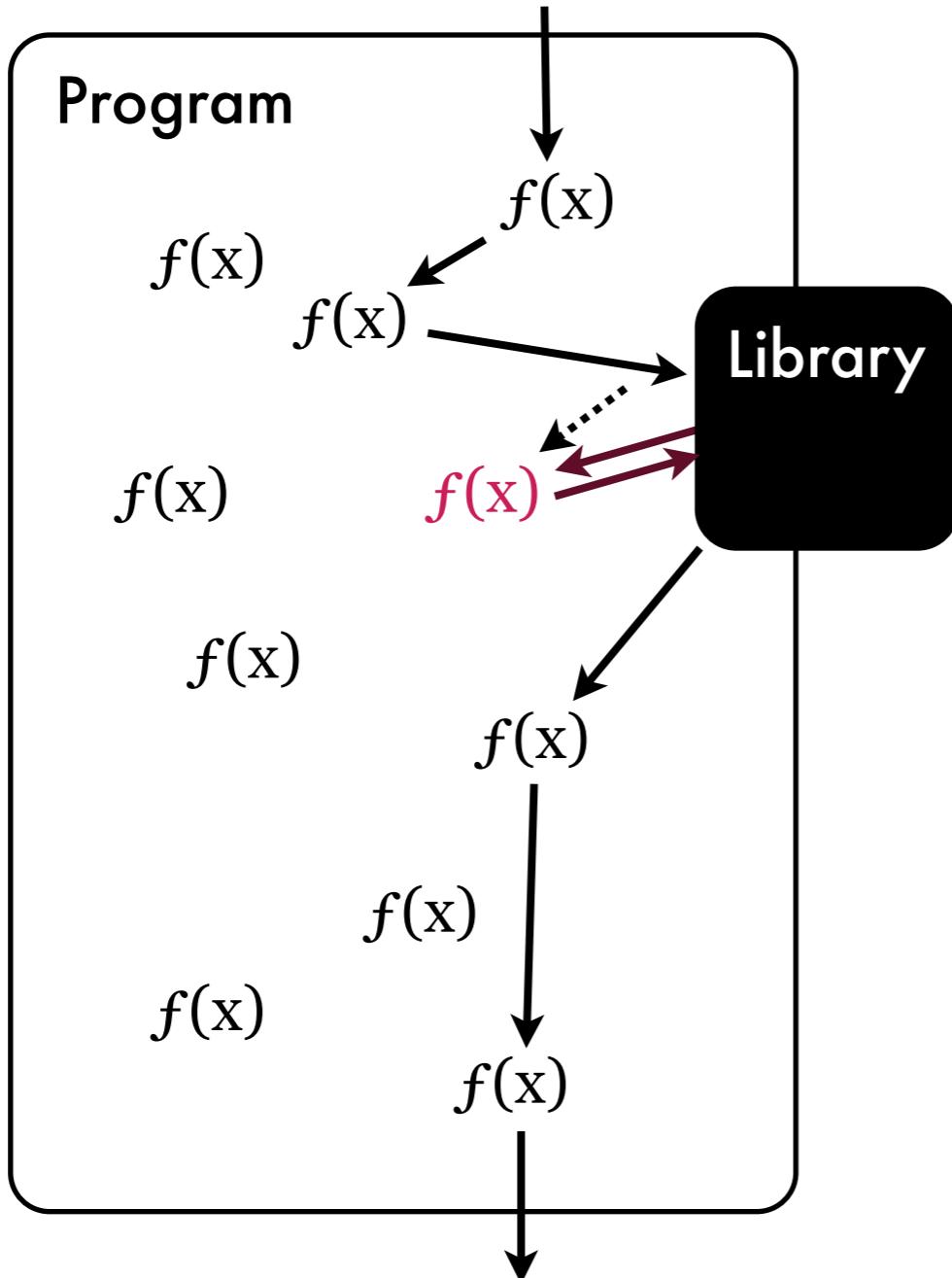
call•back |'kôl,bak|



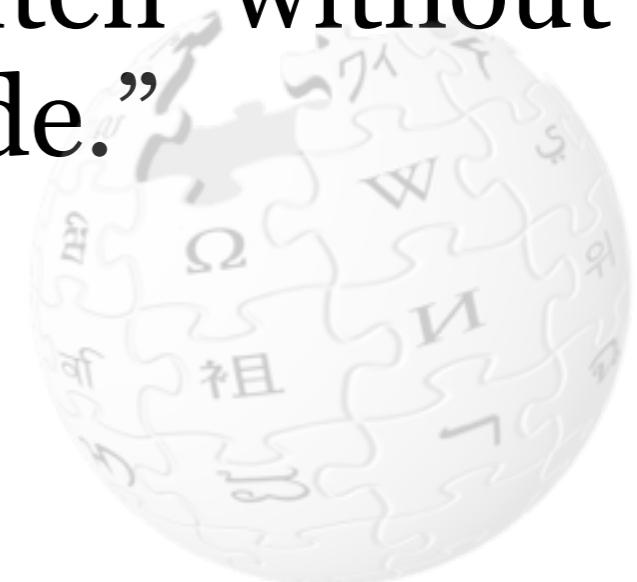
call•back |'kôl,bak|



call•back |'kôl,bak|



“In computer programming, **hooking** is a technique used to alter or augment the behavior of [a program], often without having access to its source code.”



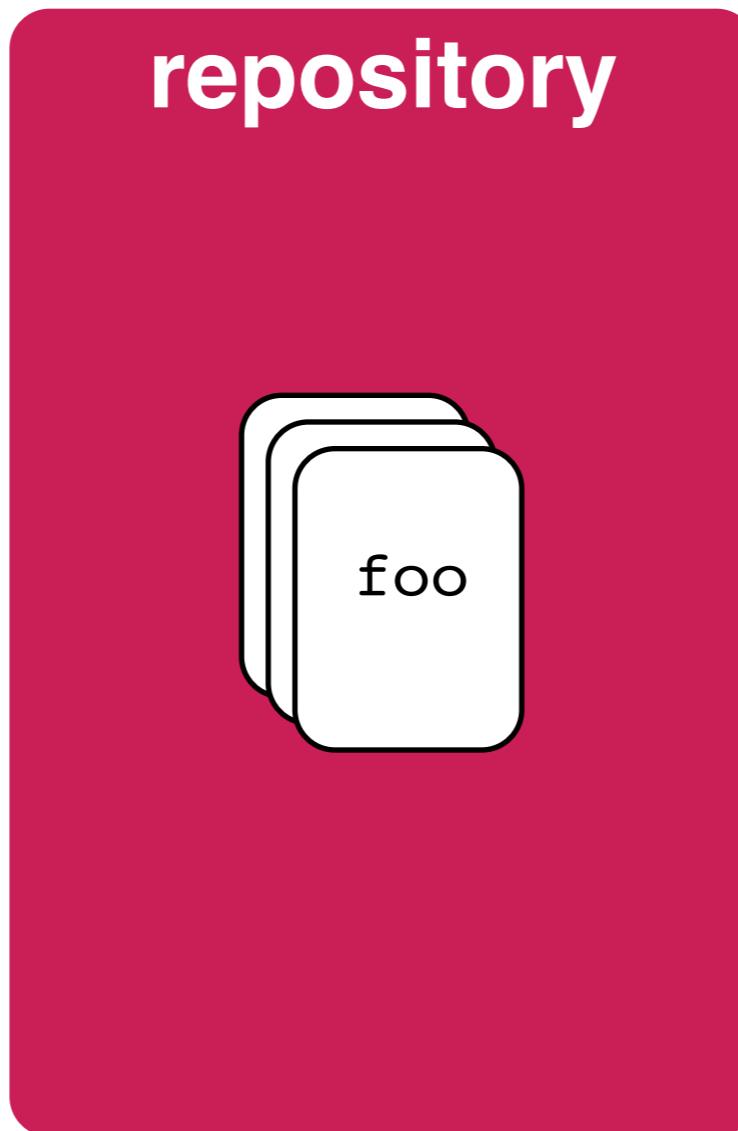
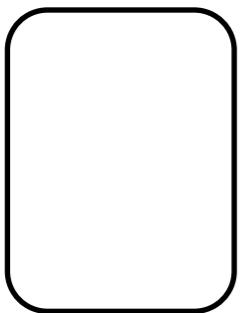
webhooks origin



PayPal®

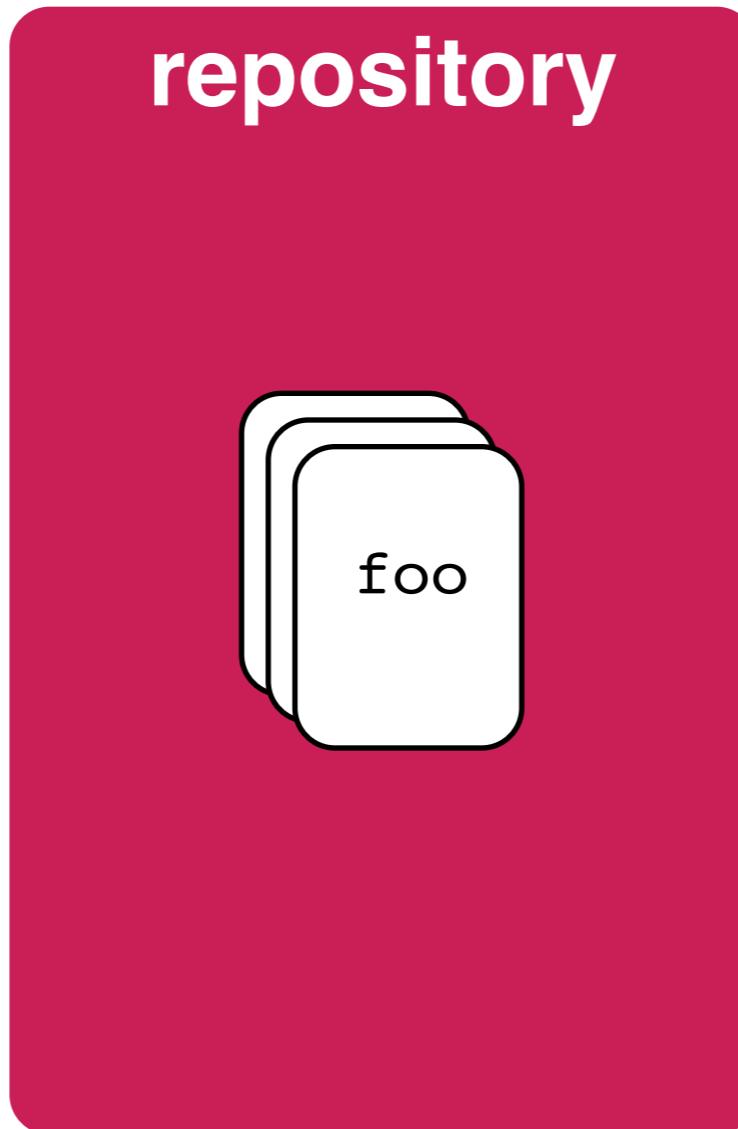
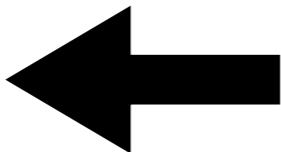
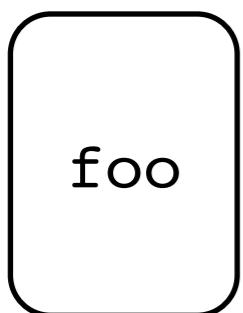
subversion hooks

working copy



subversion hooks

working copy



subversion hooks



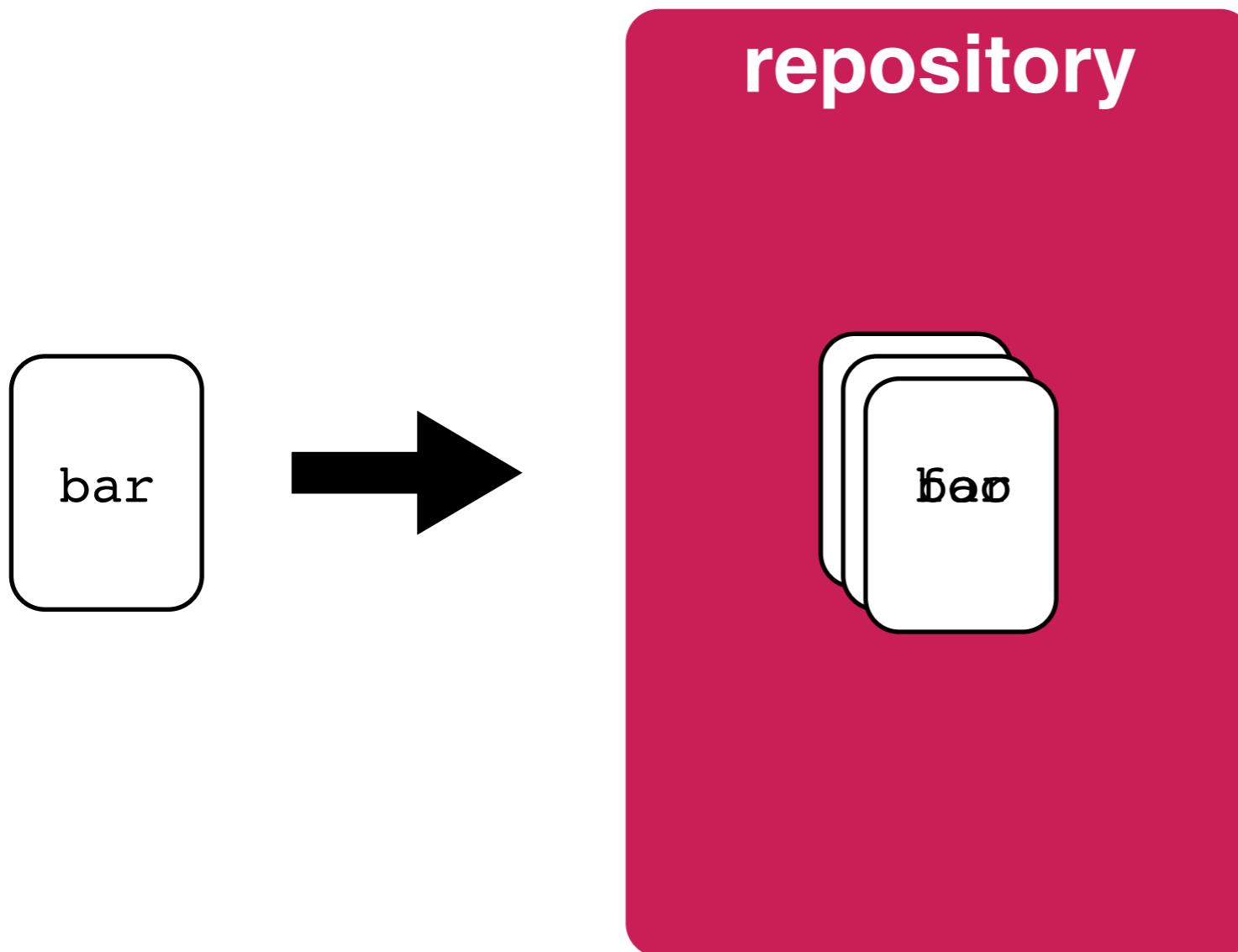
bar



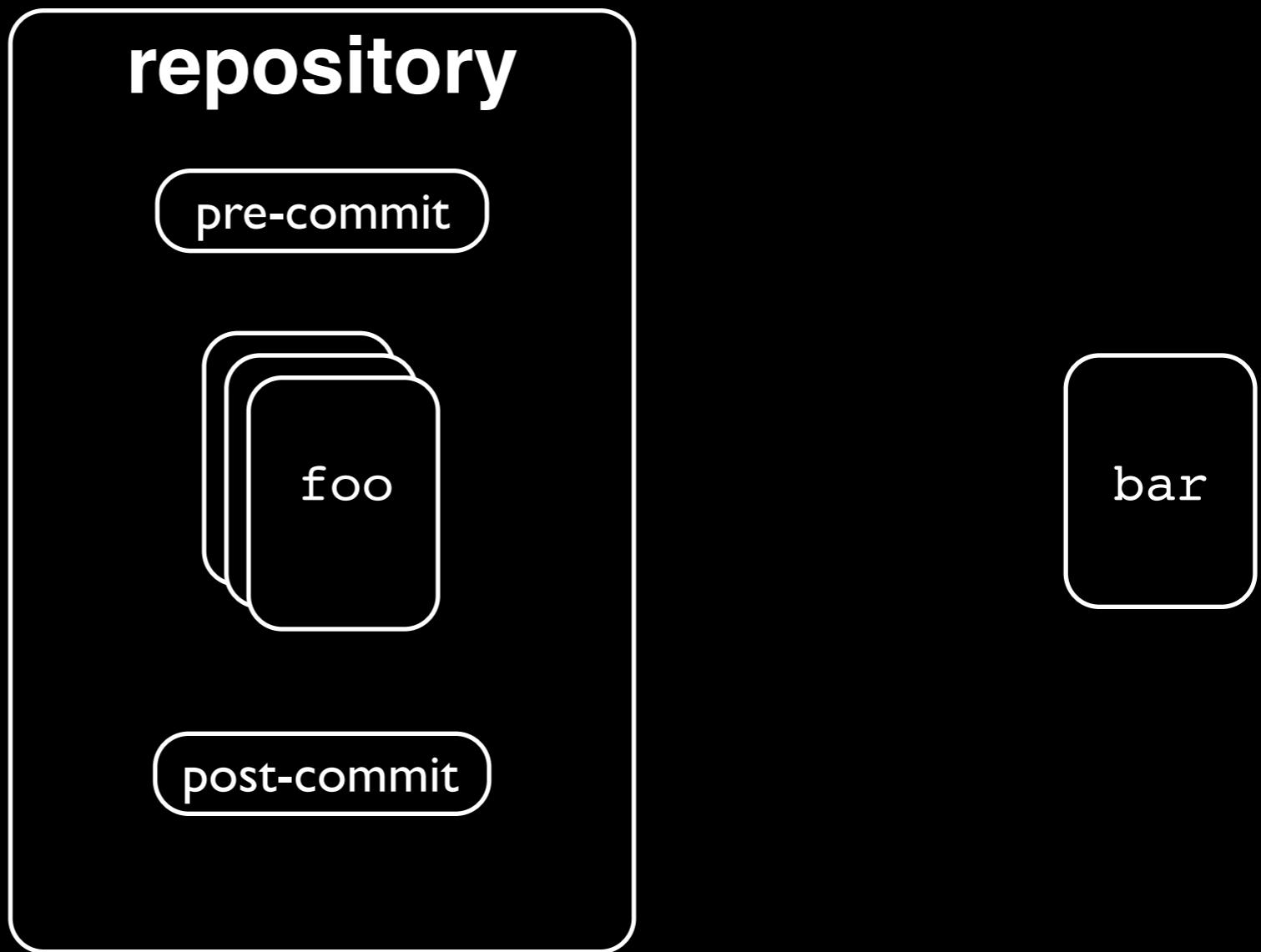
repository

foo

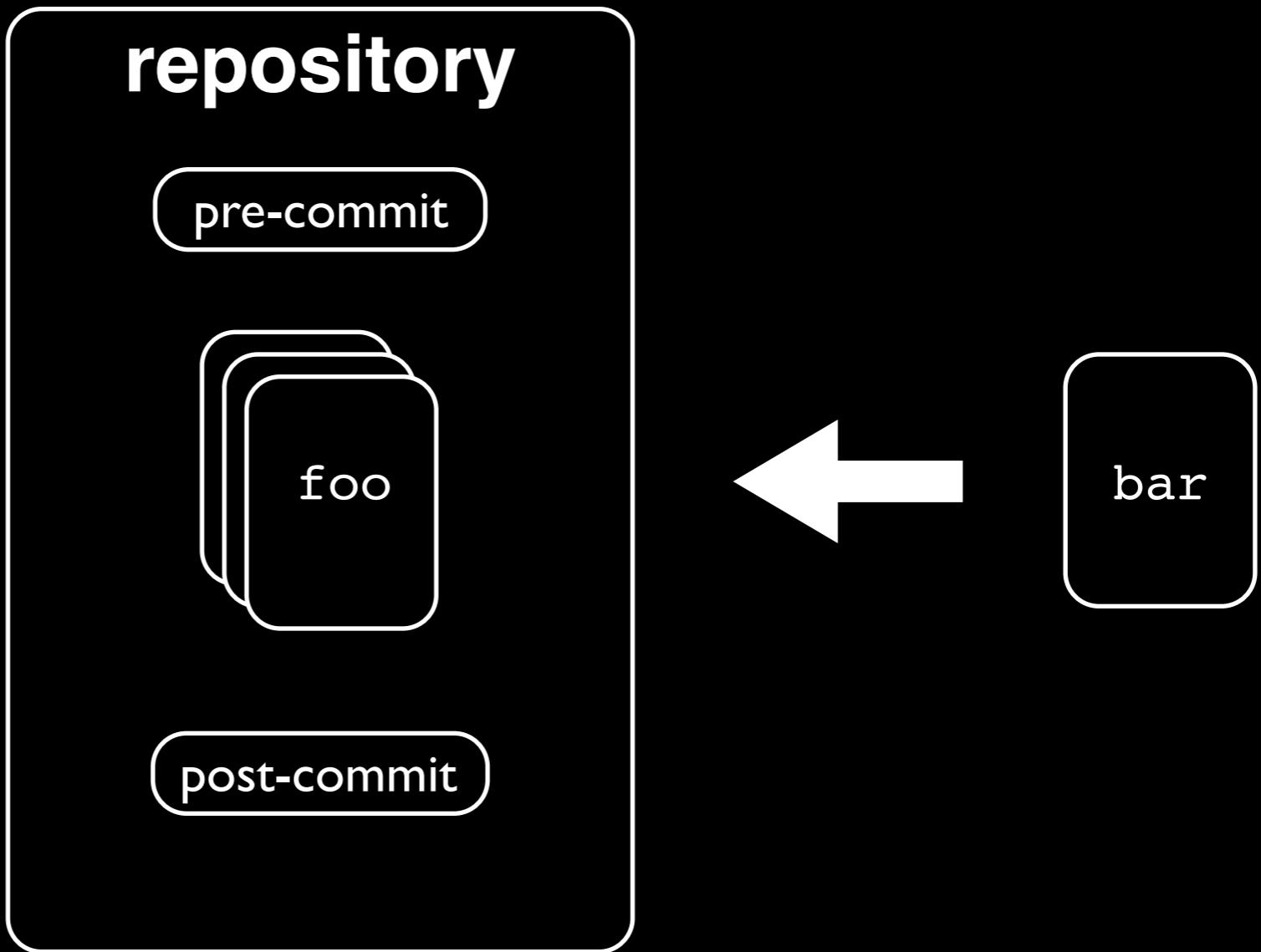
subversion hooks



subversion hooks



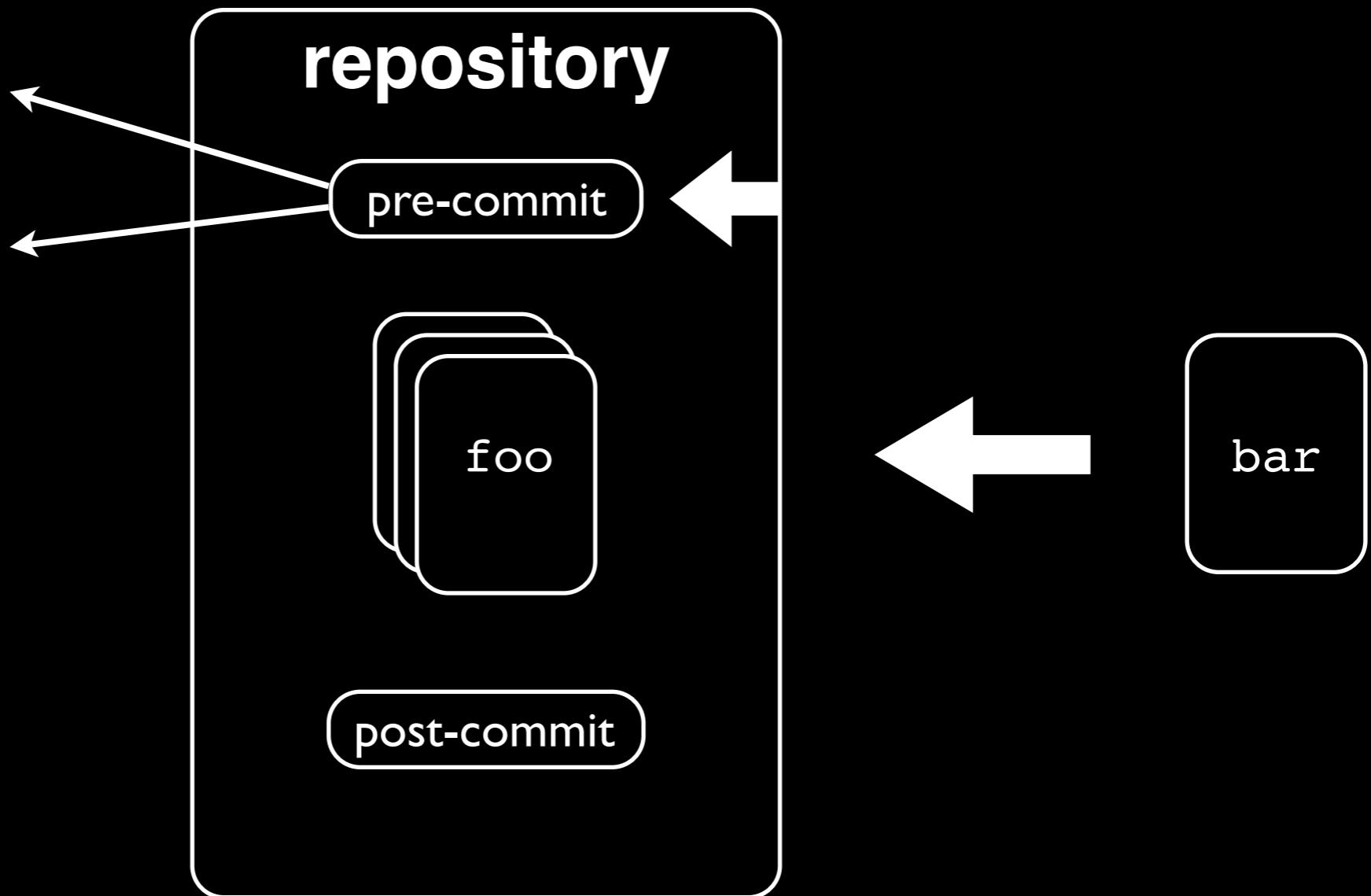
subversion hooks



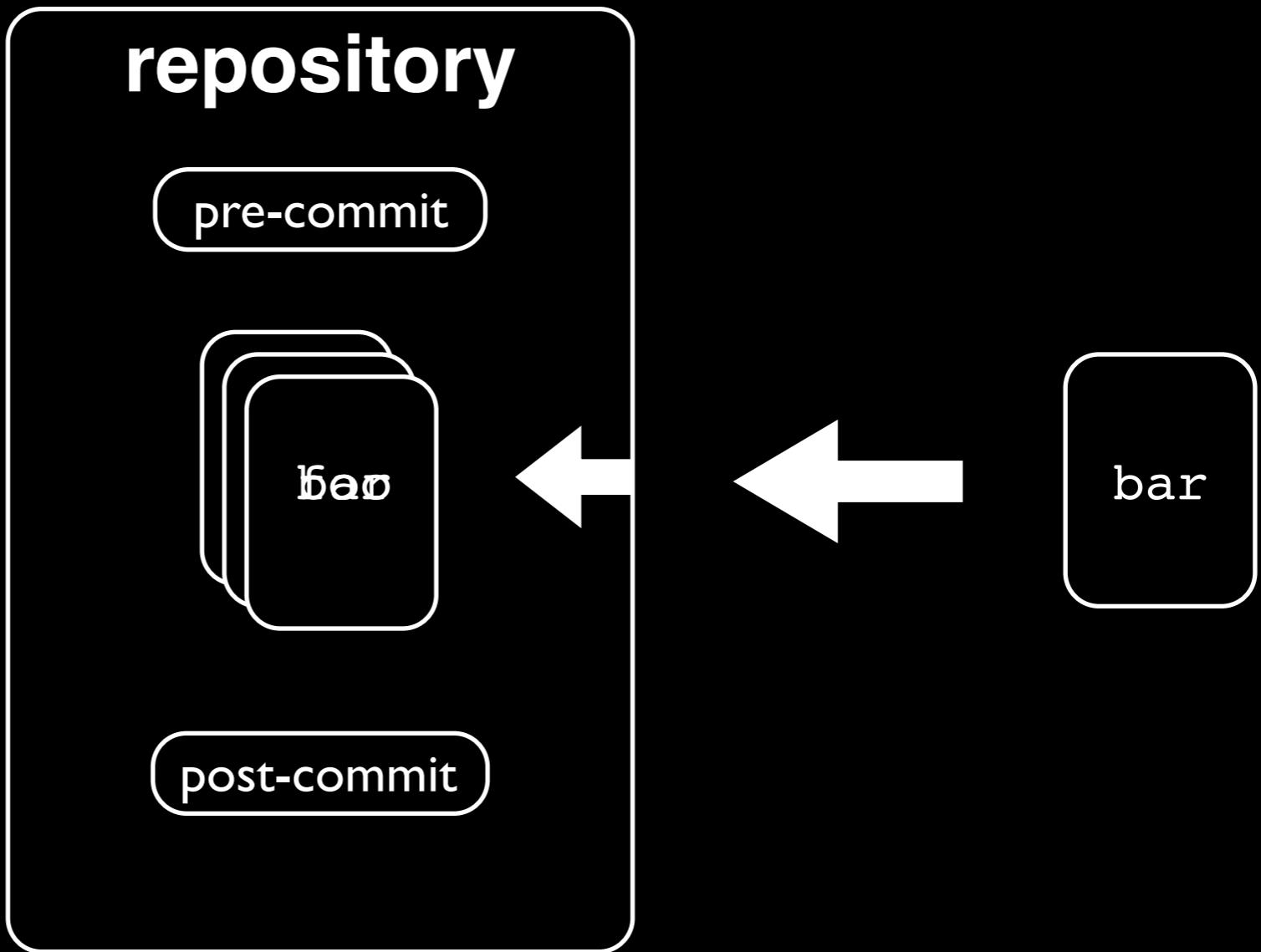
subversion hooks

Does this user have
permission?

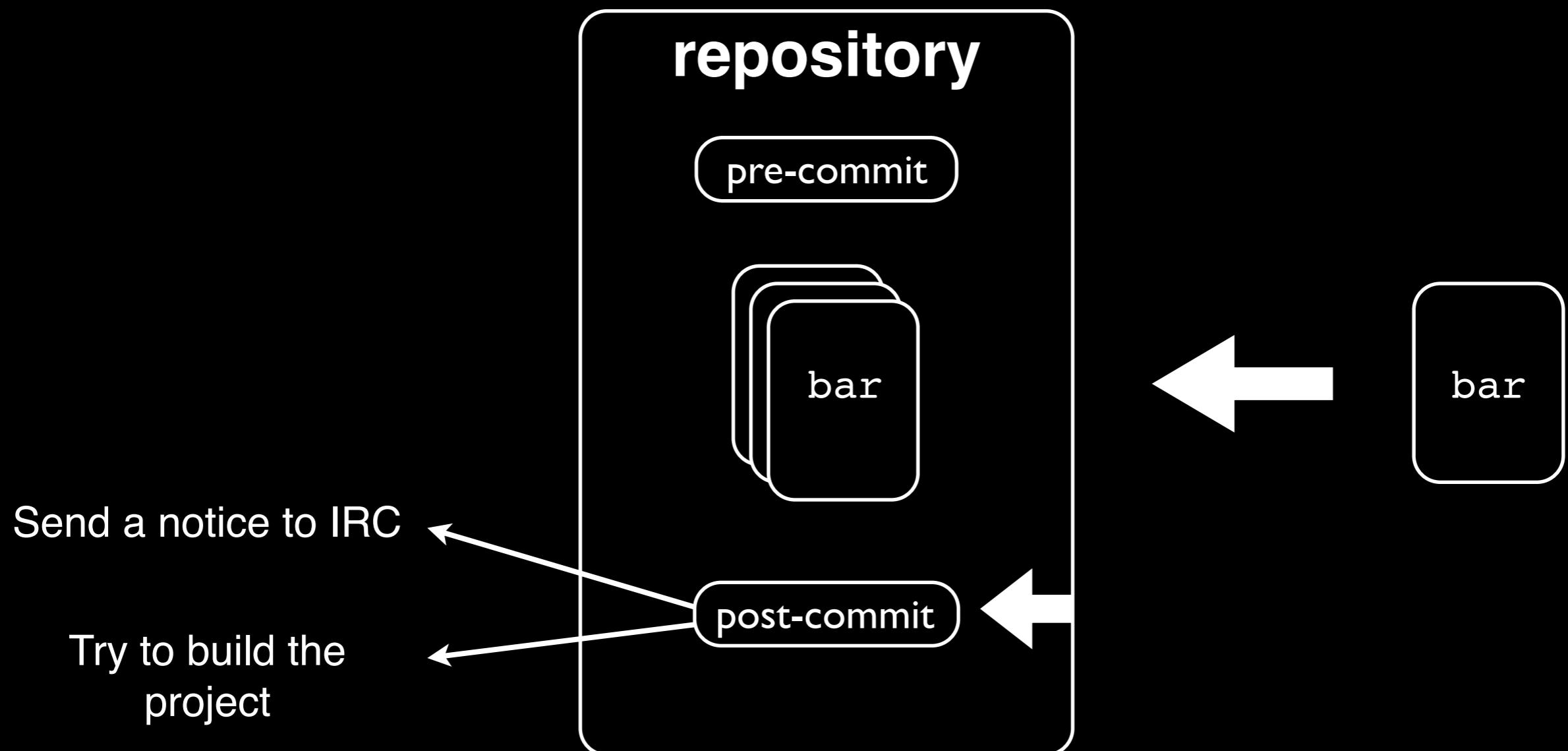
Is this change valid?



subversion hooks



subversion hooks



subversion hooks



subversion hooks

A new change was committed by Jeff.



repository



bar

subversion hooks

repository



bar

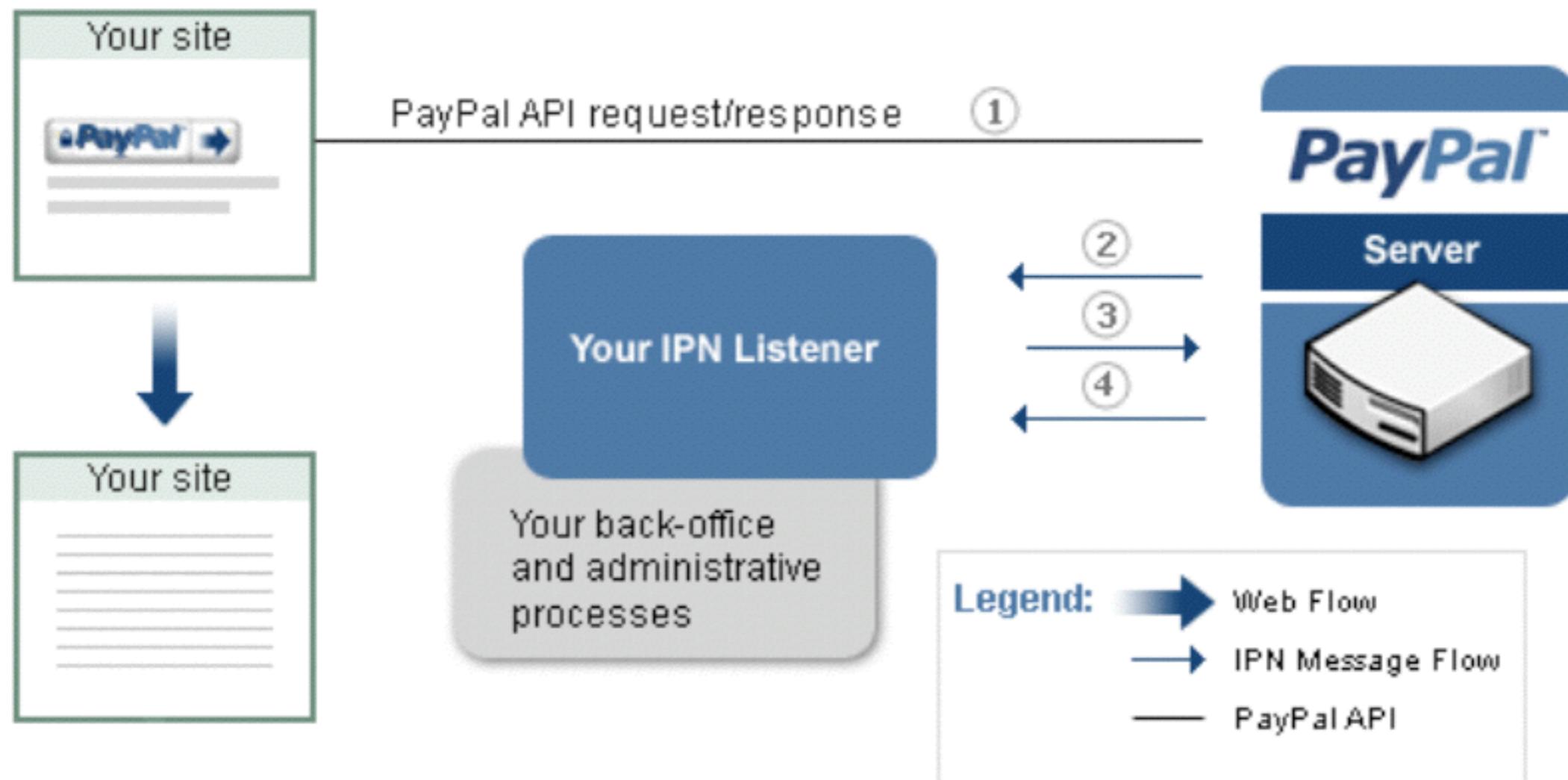


bar

Damn it Jeff,
you broke the build!

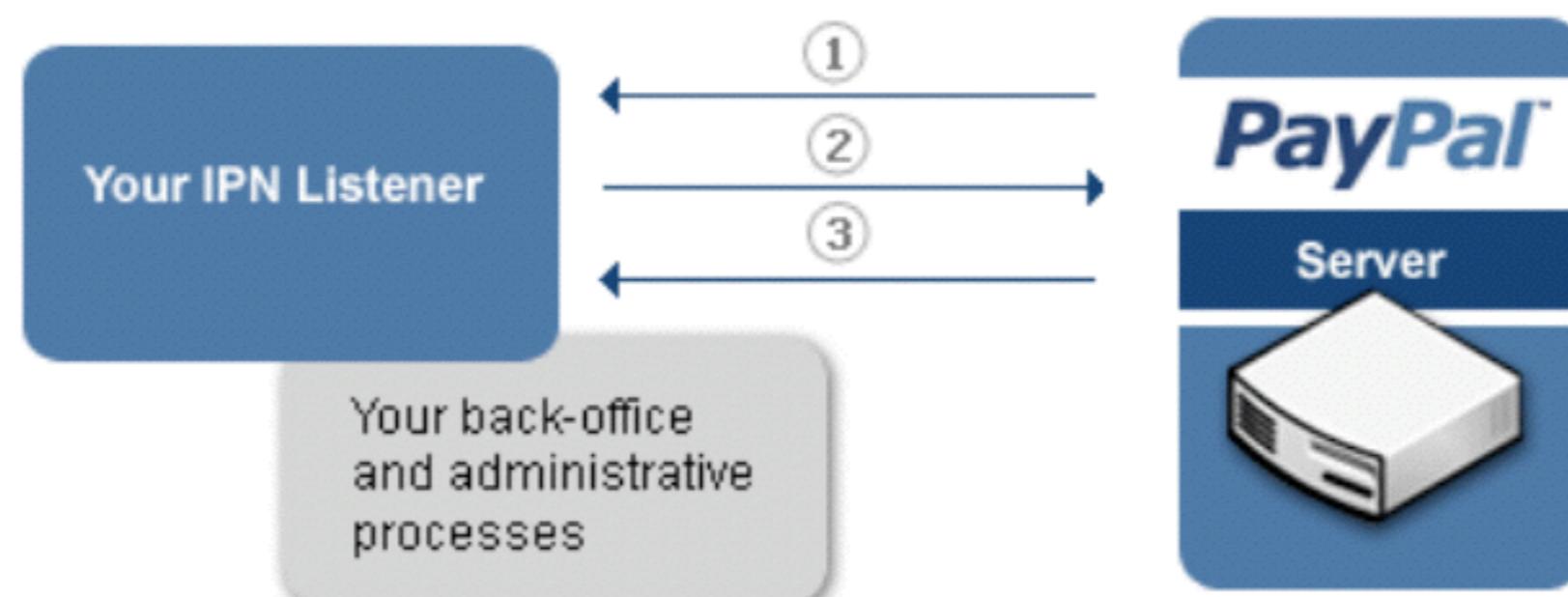
paypal ipn

Checkout flow



paypal ipn

PayPal-initiated action



Legend: → IPN Message Flow

paypal ipn

The screenshot shows the PayPal website interface. At the top right, there are links for "Log Out", "Help", and "Security Center". To the right of these is a search bar with a "Search" button. Below the search bar is the classic blue "PayPal" logo. A horizontal menu bar spans across the middle of the page, featuring links for "My Account", "Send Money", "Request Money", "Merchant Services", "Auction Tools", and "Products & Services". The main content area has a light gray background. The title "Instant Payment Notification Preferences" is displayed in orange text at the top of this section. Below the title is a link "Learn More about Instant Payment Notification". A note below the link instructs users to "read the instructions" before activating IPN. There is a checkbox labeled "Instant Payment Notification integrates PayPal payment notification and authentication with your website's back-end operations. Check this box to activate Instant Payment Notification, and enter the URL at which you will receive the payment notifications below." The URL input field contains "http://". At the bottom right of the form is a "Save" button.

[Log Out](#) | [Help](#) | [Security Center](#)

PayPal

[My Account](#) | [Send Money](#) | [Request Money](#) | [Merchant Services](#) | [Auction Tools](#) | [Products & Services](#)

Instant Payment Notification Preferences

[Learn More about Instant Payment Notification](#)

Before activating Instant Payment Notification, please [read the instructions](#) to ensure that you can support the notification system.

Instant Payment Notification integrates PayPal payment notification and authentication with your website's back-end operations. Check this box to activate Instant Payment Notification, and enter the URL at which you will receive the payment notifications below.

Notification URL:

[Save](#)



[Wiki](#)[Timeline](#)[Roadmap](#)[Browse Source](#)[View Tickets](#)[New Ticket](#)[Search](#)[Admin](#)

DevjaVu Beta

[Blog](#)[Forums](#)[Feedback](#)

Administration

General

[Basic Settings](#)[Notifications](#)[Permissions](#)

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[Components](#)[Milestones](#)[Priorities](#)[Severities](#)[Ticket Types](#)[Versions](#)

Spam Filtering

[Akismet](#)[Monitoring](#)

Advanced

[Export](#)[Hooks](#)[Import](#)

Hooks

Subversion Hooks

Post-commit:

Pre-commit:

If this hook returns code 400, it will cancel the commit.

These hooks allow you to specify URLs that will be posted to via HTTP on particular events.

Trying to figure out Web Hooks. Simple, so simple, that I need to get my head around the implications - which are vast.

2:39 AM Mar 7th from web



robinboast

Robin Boast



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read up on webhooks. want my time
back.

4:33 AM Mar 9th from TwitKit



asynchronaut

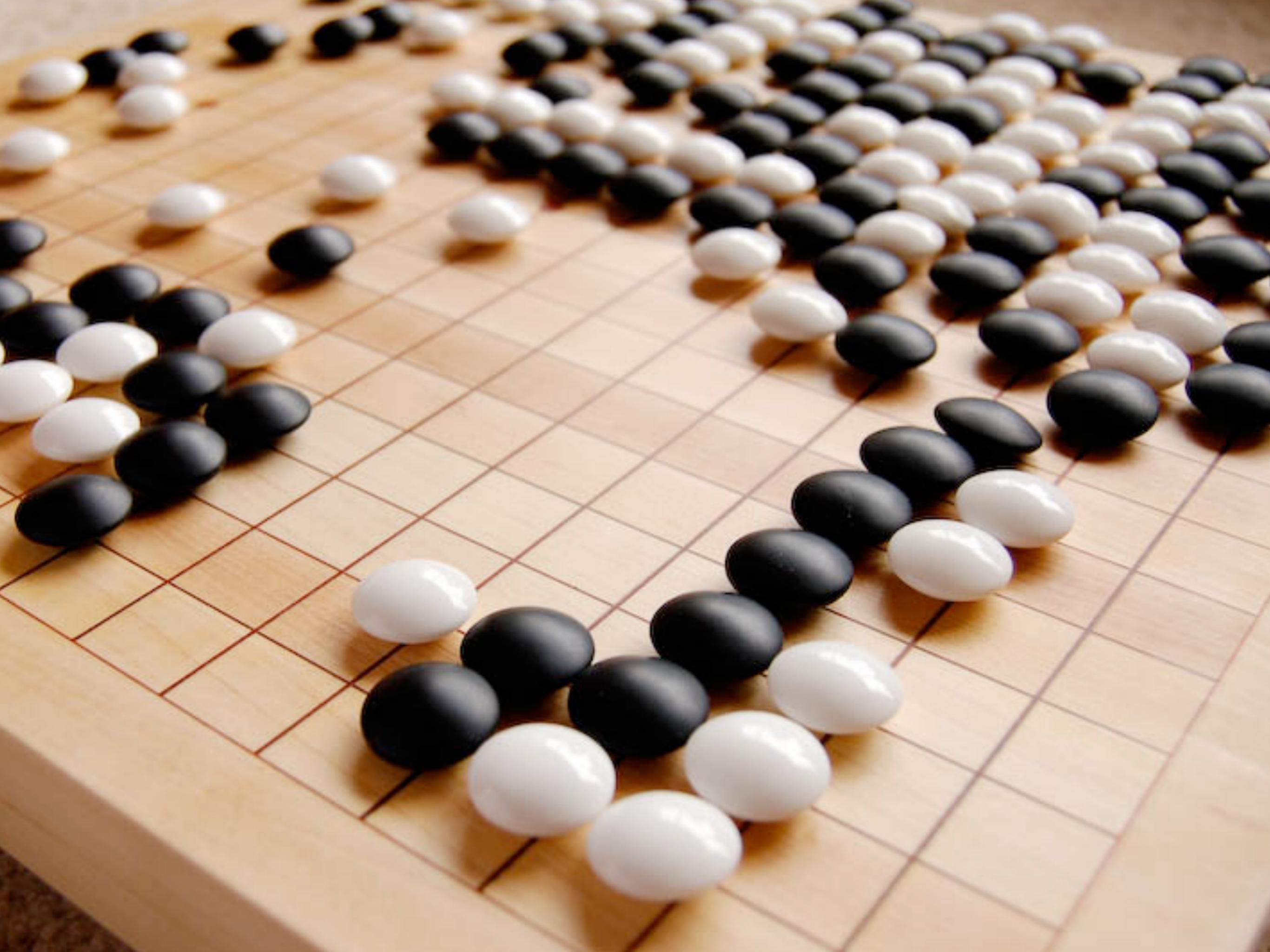
Holger Hoffstätte

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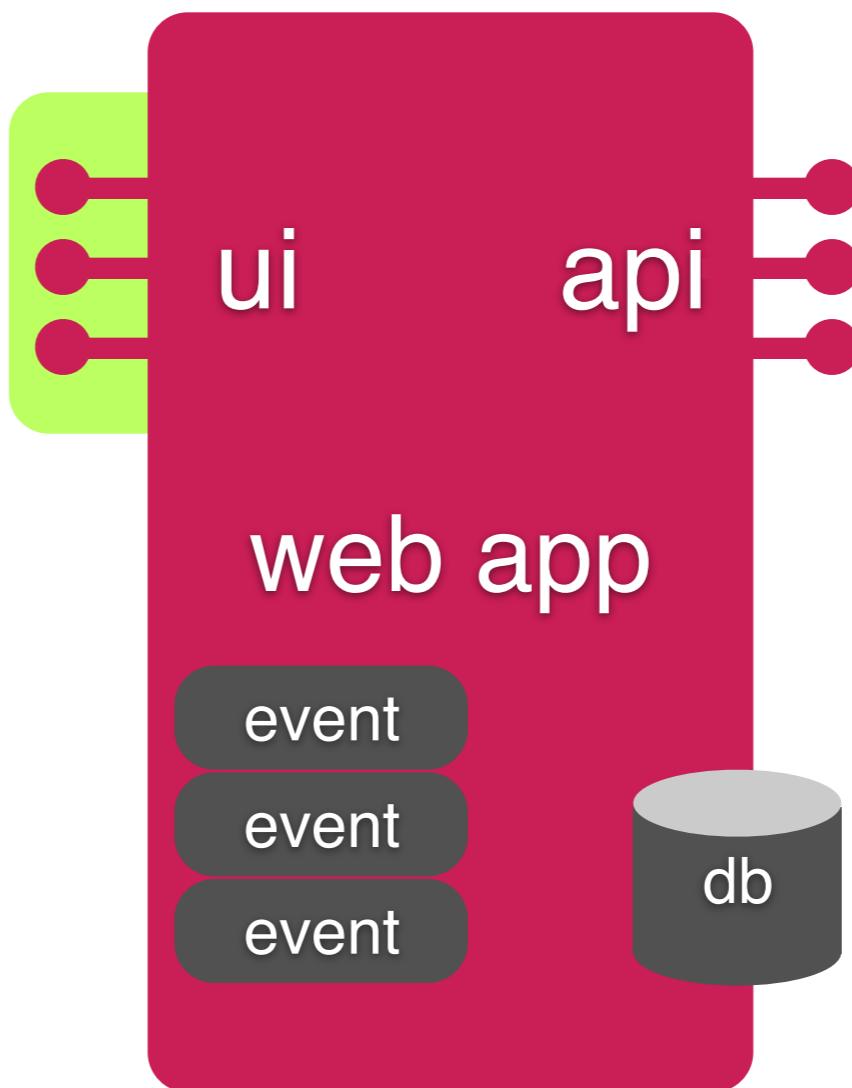
webhooks

SO SIMPLE YOU'LL THINK IT'S STUPID

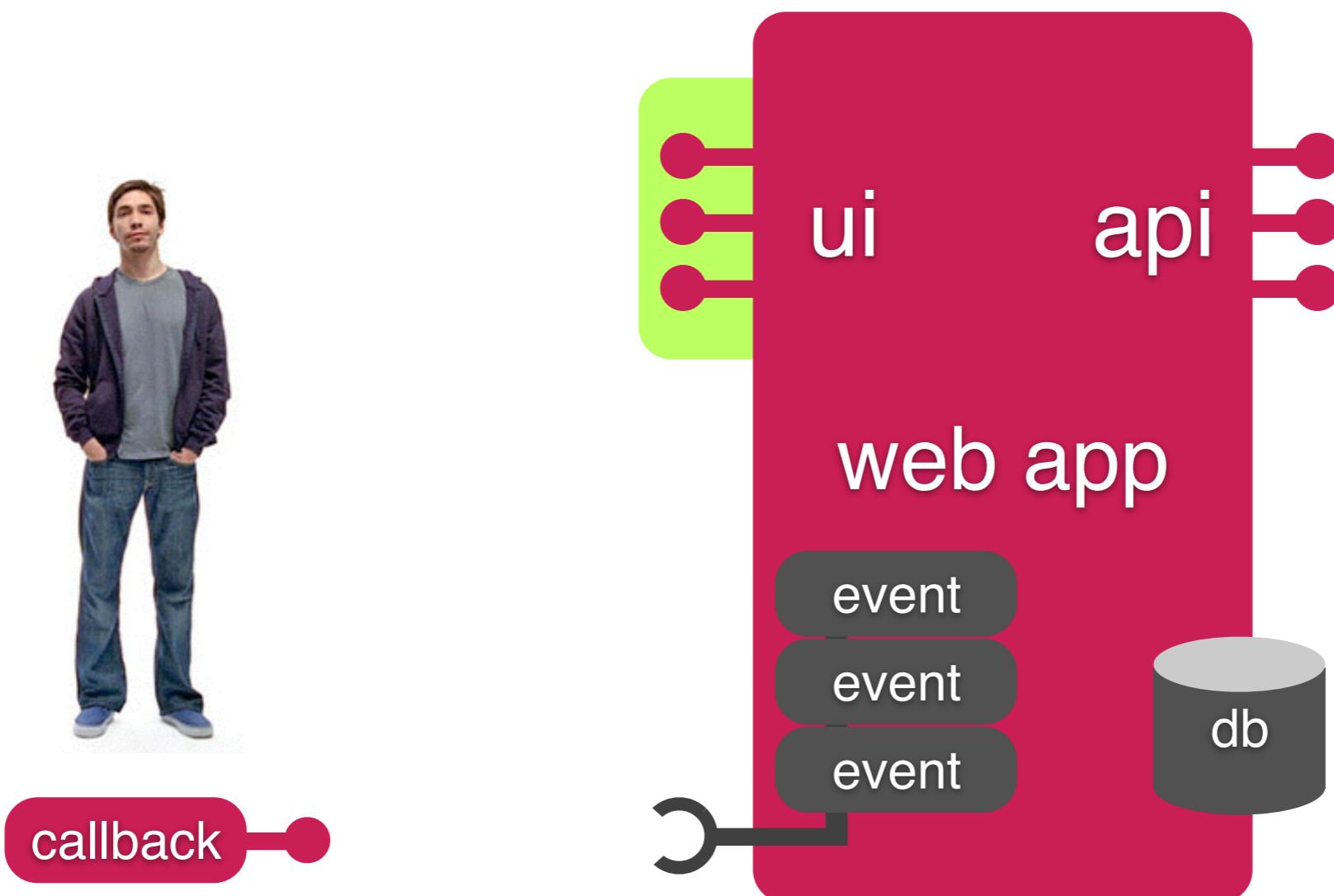




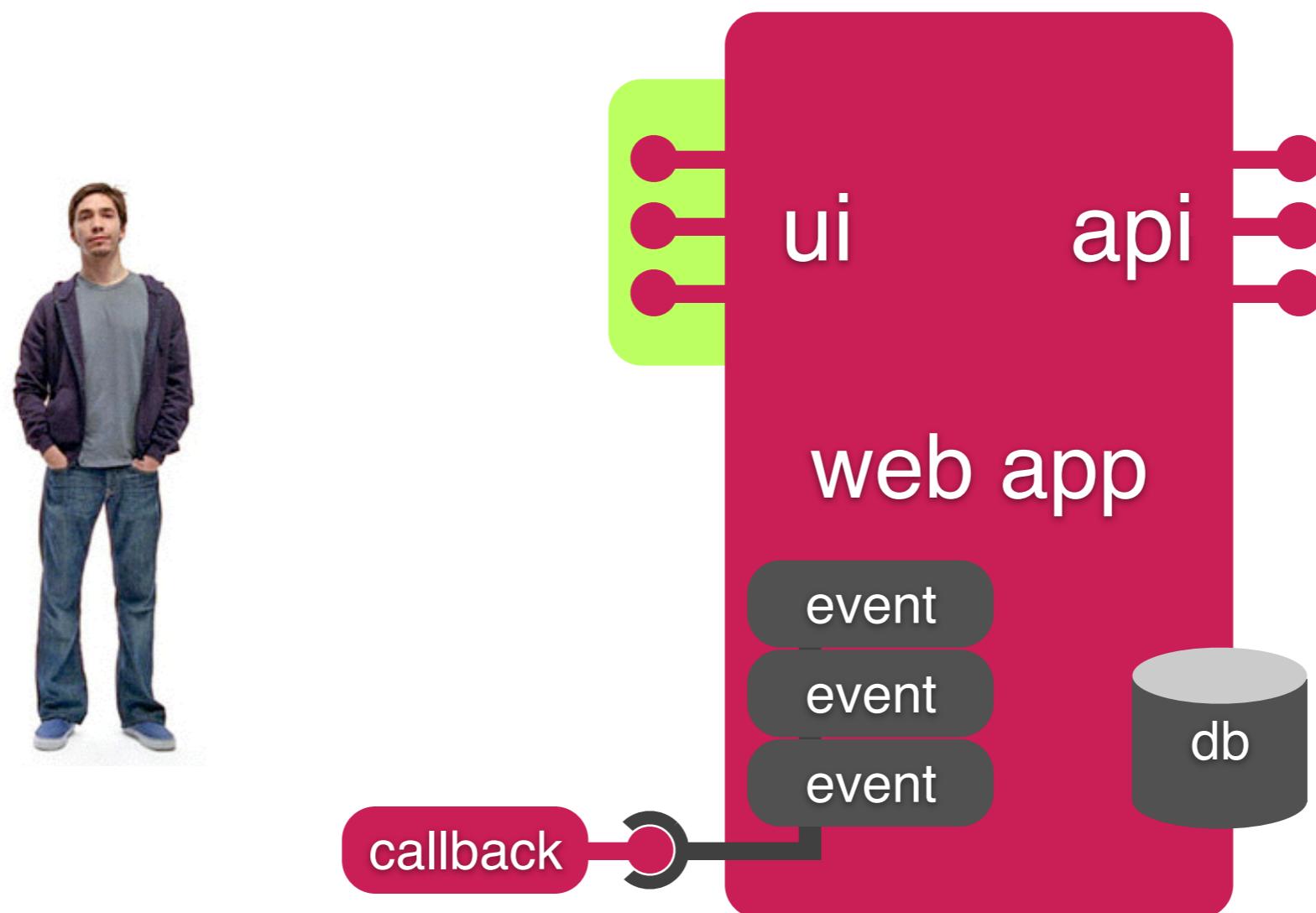
webhooks anatomy



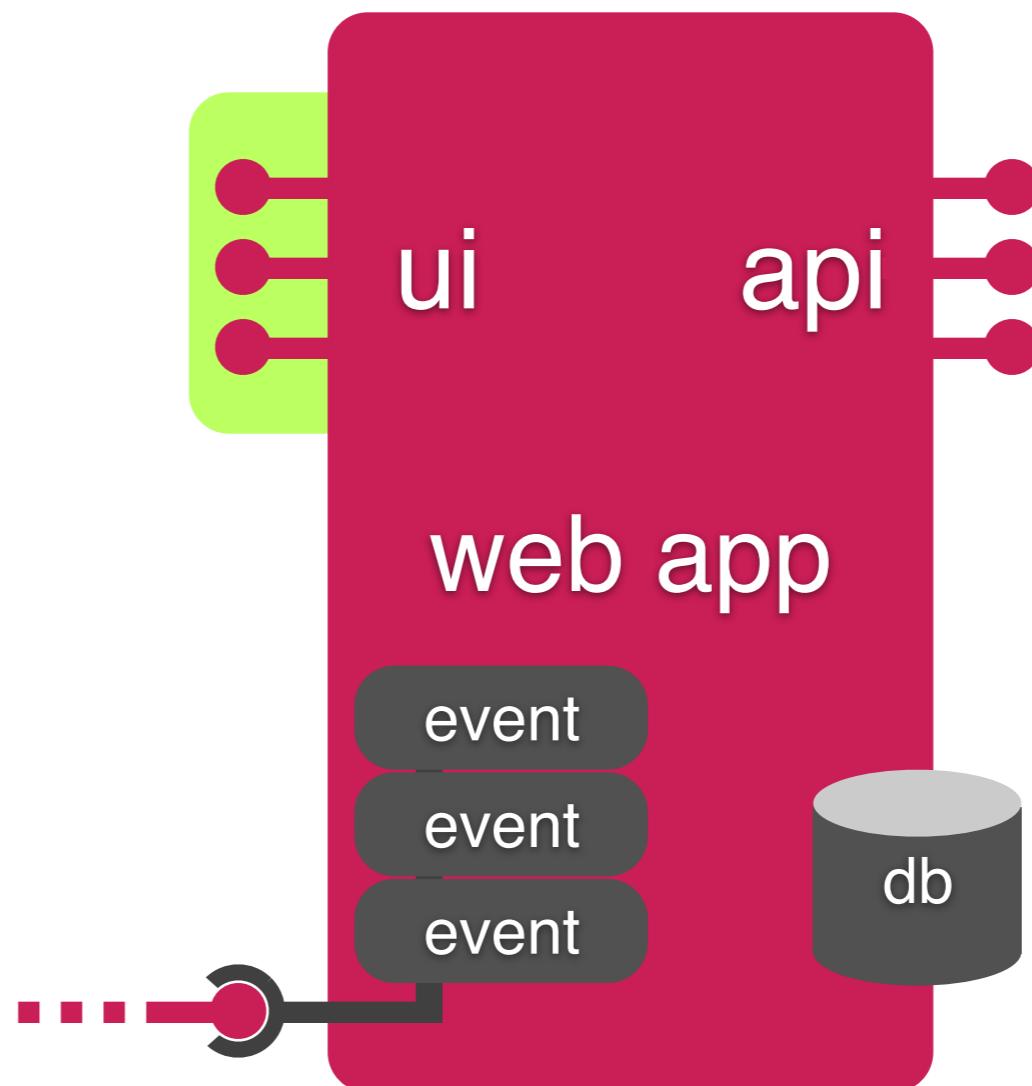
webhooks anatomy



webhooks anatomy



webhooks anatomy



webhooks anatomy



callback →



APPJET ✈

 **Scriptlets**

examples



GitHub is for Public Open Source and Private Business Code

Search public git repositories

 **FEATURED**

macsphere

canary

21 April 2009

The latest Twitter client to go Open Source, this single column Cocoa app does much more than expected: filters to weed out the bad tweets, drag and drop TwitPic integration, easy ways to add/remove/block fellow addicts, and even more. The best part? You can hack on it and add whatever features you'd like! .

Join a growing selection of companies that have adopted GitHub as their code host of choice.



Recently Updated Repositories

-  holtonma / **rubypang**
-  kballard / **macports**
-  alq666 / **benchmarks**
-  elan / **plex**
-  nevali / **jqueryjs**

tightrope media systems 



Unleash Your Code
70,000 coders and climbing

How does it work?

Get up and running in seconds by forking a project, pushing an existing repository, or starting fresh.



program / postbin



Description: Web hook data inspector [edit](#)

Homepage: <http://postbin.org> [edit](#)

Public Clone URL: <git://github.com/program/postbin.git>

Your Clone URL: <git@github.com:program/postbin.git>

Service Hooks

After setting up any of the following services, we'll send your commit information to them when you push to GitHub. We're capable of sending messages to Campfire, recording changesets to Lighthouse, posting to an IRC room, and much more.

Please locate the "Help" links by each service if you're having trouble determining what to enter in the fields.

Post-Receive URLs

URL

[Update Settings](#) [Help](#)



Basecamp

Url

Username

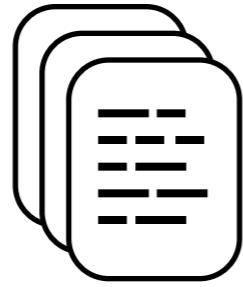
Password

Project

Category

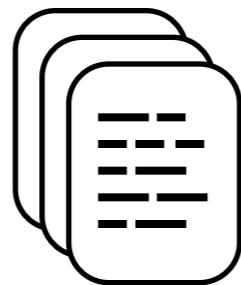
Active

[Update Settings](#) [Help](#)



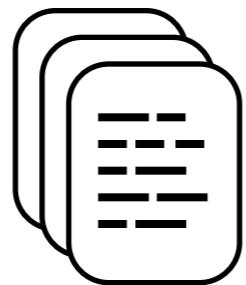
DEPLOY

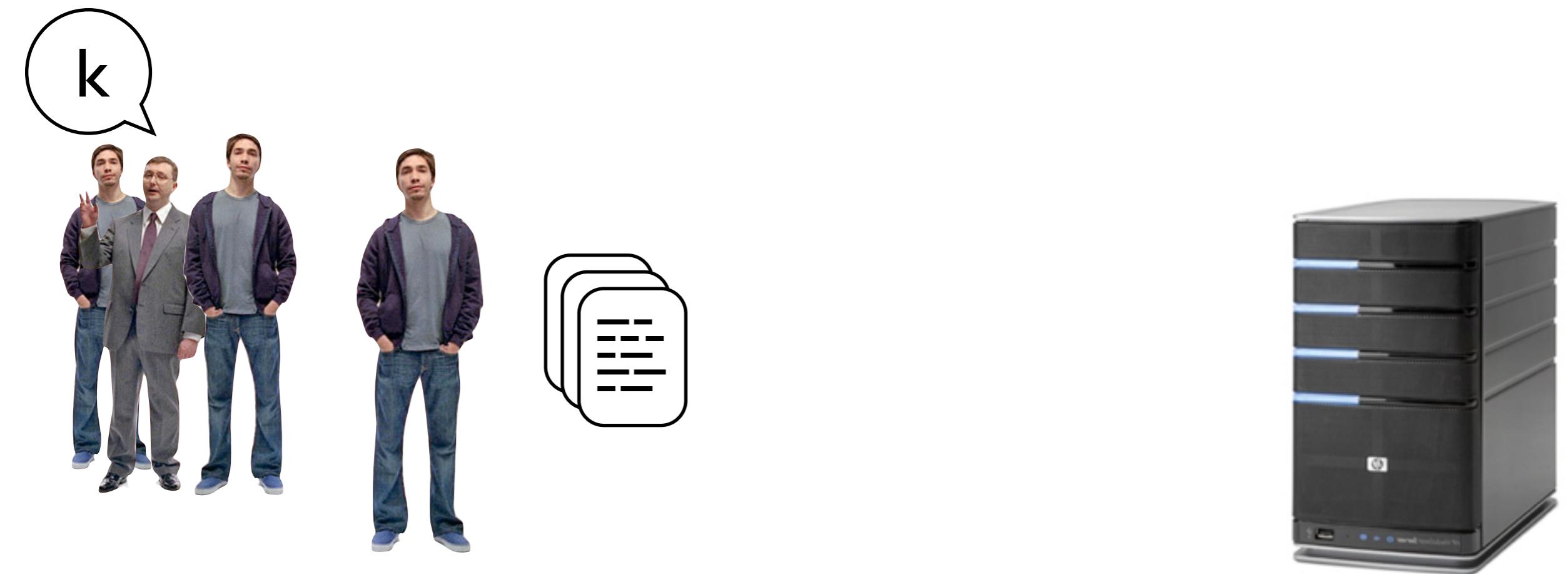
A large, solid red arrow pointing to the right. The word "DEPLOY" is written in a bold, white, sans-serif font across the center of the arrow.

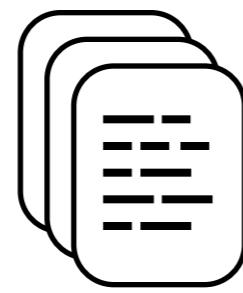


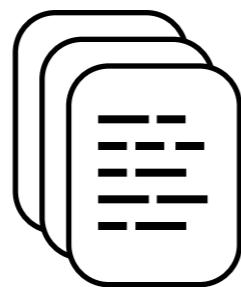


Hey guys, pull.



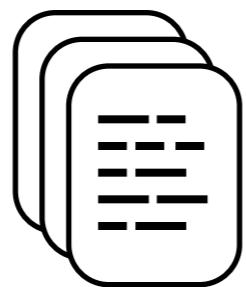


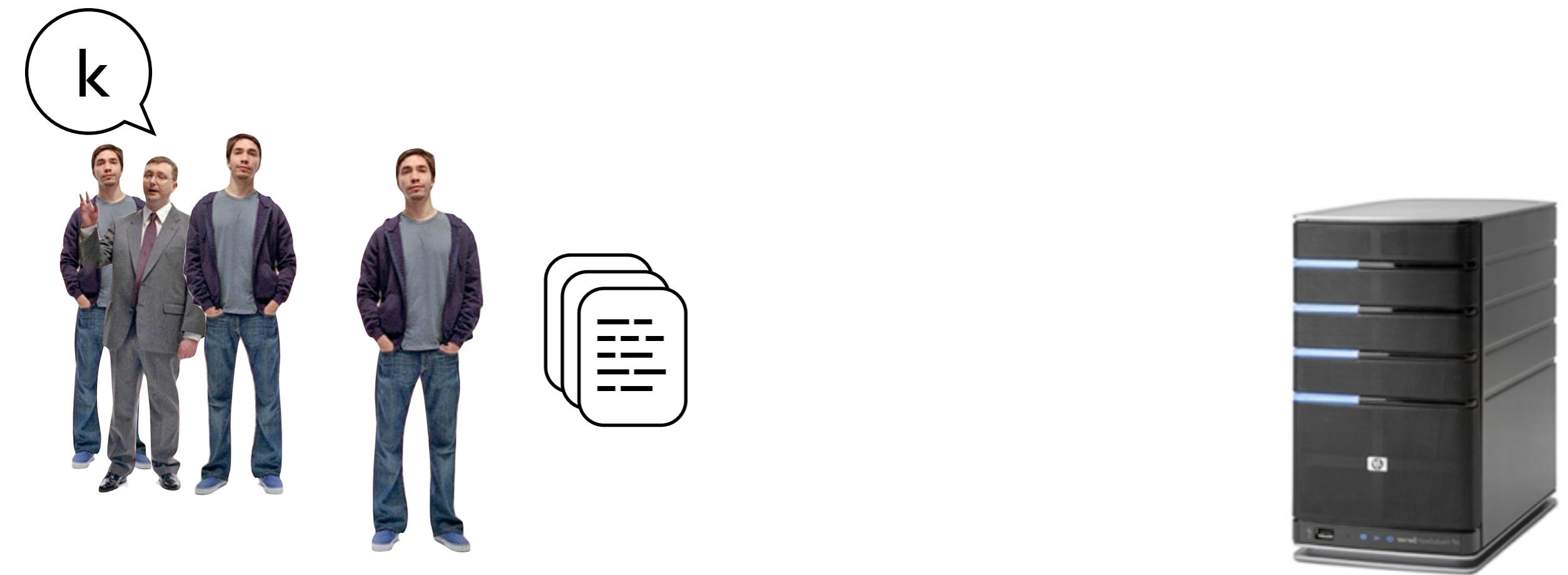


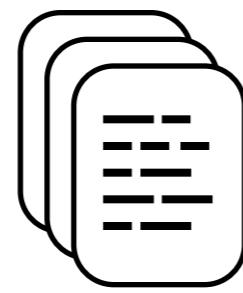




Hey guys, pull.

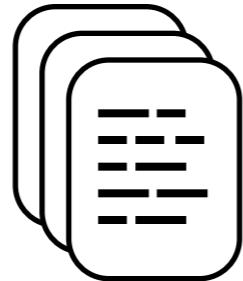
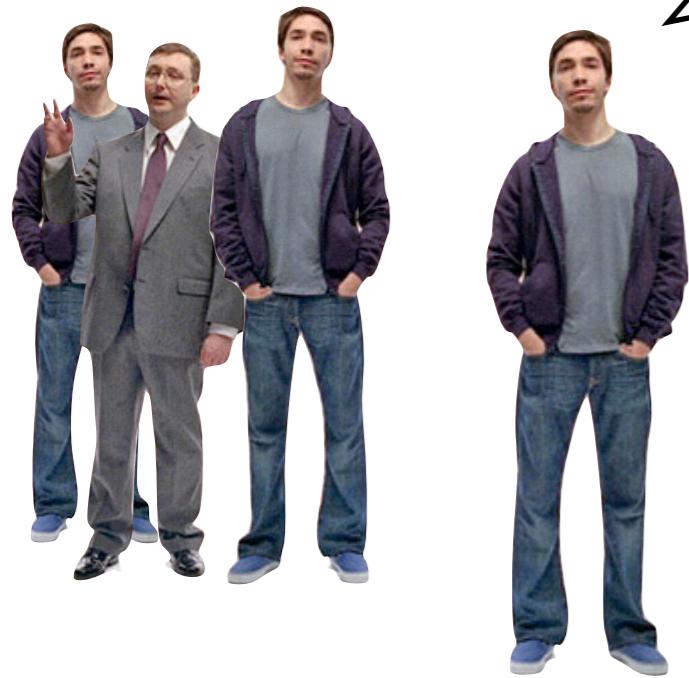


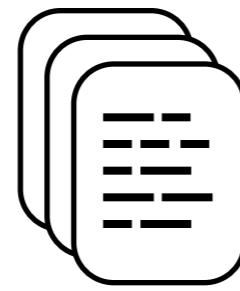






Hooks?





<http://myserver.com/script>



<http://myserver.com/script>

REGISTER



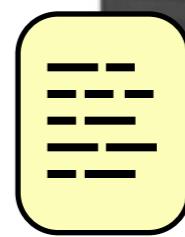


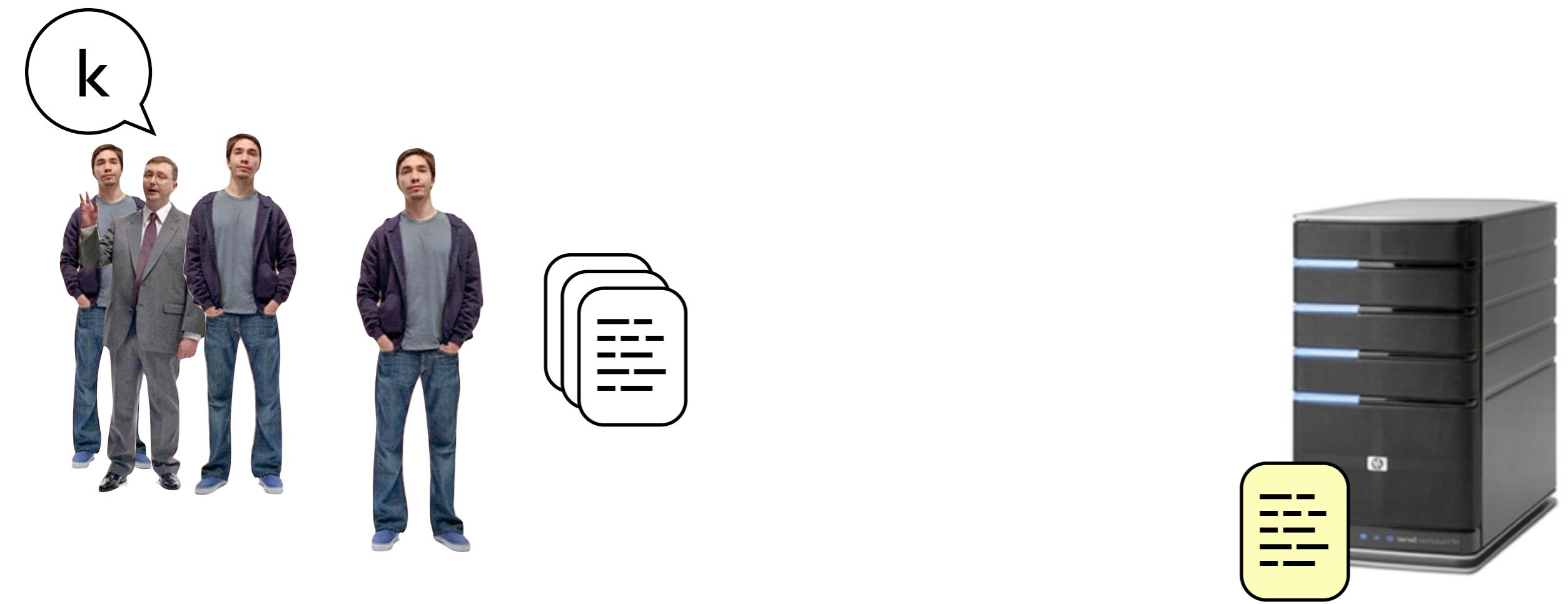
PUSH

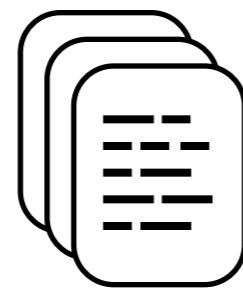
A large, solid red arrow pointing vertically upwards. The word "PUSH" is printed in white, bold, sans-serif capital letters across the middle of the arrow.



Hey guys, pull.







Business

- > Overview
- > Checkout by Amazon
 - > What customers see
 - > How it works for you
 - > Pricing
 - > Marketing Toolkit
 - > FAQ
 - > Contact us
- > Amazon Simple Pay
- > Flexible Payments Service
- > Featured Partners
- > Compare Solutions
- > Amazon Payments Blog
- > Resources
- > Help

Newsletters

- > March 2009
- > February 2009
- > January 2009
- > December 2008

Talk to us

Checkout by Amazon

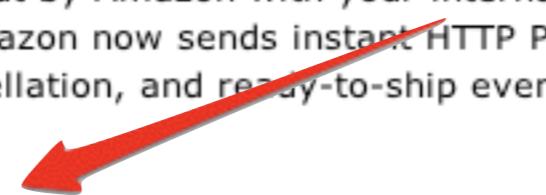
[Sign up for this Service](#)

Checkout by Amazon™ is a complete e-commerce checkout solution that provides your customers with the same secure and trusted checkout experience available on Amazon.com today. It offers unique features including Amazon's 1-Click® and tools for businesses to manage shipping charges, sales tax, promotions, and post-sale activities including refunds, cancellations, and chargebacks.

New Features!

Instant Order Processing Notification now available

Now you can easily integrate Checkout by Amazon with your internal order processing systems. Checkout by Amazon now sends instant HTTP POST notifications for order creation, cancellation, and ready-to-ship events in real time. [Learn more](#)



Merchant Callback API now available

Checkout by Amazon now enables you to calculate shipping costs, taxes, and promotions at the time of order placement using our new Merchant Callback API. The shipping address selected by the buyer will be sent to your callback URL and we will charge the customer based on the shipping cost, taxes and promotions returned by you. [Learn more](#)

Key Features of Checkout by Amazon

- **Low friction for Amazon customers:** Customers can use the information from their Amazon.com account and other websites powered by Amazon.com to complete purchases on your website without having to re-enter their shipping address or payment information.
- **Familiar checkout experience:** Checkout by Amazon provides the familiar checkout experience available on Amazon.com today on your website.

New!

Read the latest Amazon Payments newsletter.

New!

Checkout by Amazon osCommerce plug-in V.2.0 released

Optimize conversion on your osCommerce based online store. Enable tens of millions of Amazon.com customers to shop on your website with Checkout by Amazon.

Integration with your osCommerce store is now quick and easy with Checkout by Amazon osCommerce plug-in V.2.0.

[Learn more](#)



When your customers are ready to checkout, they click the Checkout by Amazon button.



The button expands into a widget. Customers click the Continue Checkout button .



The order summary is shown to your customers as a pop-over in your website. Customers place the order.



Customers are returned to a URL that you specify. Amazon Payments sends a confirmation e-mail to you and the customer.



When your customers are ready to checkout, they click the Checkout by Amazon button.



The button expands into a widget. Customers choose a shipping address and click the 1-Click button to place the order.



Customers are returned to a URL that you specify. Amazon Payments sends a confirmation e-mail to you and the customer.

```
<?xml version="1.0" encoding="UTF-8"?>
<Order xmlns="http://payments.amazon.com/checkout/2008-11-30">
  <Cart>
    <Items>
      <Item>
        <SKU>JKL909</SKU>
        <MerchantId>AEIOU1234AEIOU</MerchantId>
        <Title>Calvin and Hobbes Reliquary</Title>
        <Price>
          <Amount>29.99</Amount>
          <CurrencyCode>USD</CurrencyCode>
        </Price>
        <Quantity>1</Quantity>
      </Item>
    </Items>
  </Cart>
/*
 * THIS IS THE NEW SECTION YOU ADD TO ENABLE CALLBACKS
 */
<OrderCalculationCallbacks>
  <CalculateTaxRates>true</CalculateTaxRates>
  <CalculatePromotions>true</CalculatePromotions>
  <CalculateShippingRates>true</CalculateShippingRates>
  <OrderCallbackEndpoint>
    https://my.endpoint.com/receive.php
  </OrderCallbackEndpoint>
  <ProcessOrderOnCallbackFailure>true</ProcessOrderOnCallbackFailure>
</OrderCalculationCallbacks>
</Order>
```

NEW!
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DOCS

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in your classroom



Consulting: Manage
your projects



Personal: Improve
group productivity



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& boost billable hours



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- ▶ Library
- ▶ Campus
- ▶ District/University

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Personal

The world's easiest, fastest, free wiki

- ▶ Individuals & Groups

VIEW

EDIT

★ FrontPage

last edited by program@... 2 mins ago

Page history

Also check out [webhooks.org](#) for more up to date information on web hooks or the [Google Group](#) for discussion!

Yes, this wiki is a bit out of date. It's too bad it's what many people reference for web hooks. We'll update this thing soon!

What are web hooks?

Web hooks let you customize, extend and integrate the web applications you use with anything else you can access programmatically. To web developers, web hooks are a simple design pattern that only require the ability to make web requests and to store some extra data about users. To users, web hooks are a way to get events and data in realtime from their web applications. From this they can use the data however they like, empowering them with the ability to extend and integrate, and start seeing the true vision of the programmable web.

How do they work?

By letting the user specify a URL for various events, the application will POST data to those URLs when the events occur. With the cheap availability of PHP hosting and even easier simple app/script hosting like [Applet](#) or [Scriptlets](#), handling the POST data becomes fairly trivial. How you use it is up to you and whatever you want to accomplish. Among other things, you can:

- create notifications to you or anybody via email, IRC, Jabber, ...
- put the data in another app (real-time data synchronization)
- process the data and repost it using the app's API
- validate the data and potentially prevent it from being used by the app

Why should I care?

As integrated as we perceive the web, most web applications today operate in silos. With the rise of API's we've seen mashups and some degree of integration between applications. However, we have not seen the vision of the programmable web: a web where you as the user can "pipe" data between apps much like the Unix command line. Some say RSS is the answer. **They are wrong.** The heart is in the right place, but the implementation is wrong. RSS is still useful, but it is not going to bring us

Create a page

Upload files

Upgrade!

FrontPage

Pages & Files

Settings

Help

Search Pages and Files

Send a link

Put this page in a folder

Add Tags

Page Security

Navigator

Starred Pages

Unfiled Items

edit folders

SideBar

There is nothing useful here now. It's all about the [FrontPage](#)

[Edit the sidebar](#)

Share this wiki

Add a new writer to the wiki.

BASIC SETTINGS

About This Wiki

Colors

Logo

Backup

ACCESS CONTROLS

Users

Wiki Security

Notifications & RSS

ADVANCED SETTINGS

Alpha Features

CSS & JavaScript

Developer Interface

Delete...

License

Developer Interface

 This feature is intended for advanced/technical users. Please check the [API documentation](#).

Enable developer interface

[Save](#)

API Keys

KEY NAME	VALUE	TOKEN
Administrator Key Show value	admin_key
Writer Key Show value	write_key
Reader Key Show value	read_key

Reset API Keys

Resetting API keys will permanently disable the previous set of keys. Any scripts or services depending on their values will be disabled until you update their copies of the keys.

 [Reset API keys](#)

ACCESS CONTROLS

Users

Wiki Security

Notifications & RSS

ADVANCED SETTINGS

Alpha Features

CSS & JavaScript

Developer Interface

Delete...

License

API Keys

KEY NAME	VALUE	TOKEN
Administrator Key	***** Show value	admin_key
Writer Key	***** Show value	write_key
Reader Key	***** Show value	read_key

Reset API Keys

Resetting API keys will permanently disable the previous set of keys. Any scripts or services depending on their values will be disabled until you update their copies of the keys.

[Reset API keys](#)

Web Hooks

A Web Hook is a simple way to send events to another server or web service based on actions performed by users on this wiki. PBwiki will POST data (such as userid and operation) when users log in, edit pages, and more. See [webhooks.org](#) for more info.

Web Hook URL

Note: Be sure that you trust the operators of this URL with your wiki data.

**pbwiki**

Create your own free wiki / Help
Terms of use / Privacy policy

PostBin

All POST requests to this URL are logged for you to see here, sorted newest to oldest.

- [#q2av4z](#) @ 05:21 Apr 22 2009 -- 208.96.6.144

```
"wiki": "webhooks",
"domain": "pbwiki.com",
"user_id": "c2f3cab283ae7d0f1e11853e41edf5271c0403d3",
"name": "unknown",
"ip": "67.169.167.232",
"secret": "AbCuPUDQYB",
"time": "1240377703",
"email": "progium@gmail.com",
"iploc": "Mountain View, CA",
"op": "logout"
```

- [#19gozx](#) @ 05:21 Apr 22 2009 -- 208.96.6.144

```
"wiki": "webhooks",
"domain": "pbwiki.com",
"user_id": "c2f3cab283ae7d0f1e11853e41edf5271c0403d3",
"name": "unknown",
"ip": "67.169.167.232",
"email": "progium@gmail.com",
"secret": "AbCuPUDQYB",
"time": "1240377659",
"page": "FrontPage",
"iploc": "Mountain View, CA",
"op": "mod"
```

- [#5xe0iz](#) @ 05:19 Apr 22 2009 -- 208.96.6.144

```
"wiki": "webhooks",
"domain": "pbwiki.com",
"user_id": "c2f3cab283ae7d0f1e11853e41edf5271c0403d3",
"name": "unknown",
"url": "http://www.postbin.org/s8wui1",
"ip": "67.169.167.232",
"secret": "AbCuPUDQYB",
"time": "1240377553",
"email": "progium@gmail.com",
"iploc": "Mountain View, CA",
"op": "sethook"
```

- [#109jk0](#) @ 05:19 Apr 22 2009 -- 208.96.32.23

```
"wiki": "webhooks",
"domain": "pbwiki.com",
"user_id": "c2f3cab283ae7d0f1e11853e41edf5271c0403d3",
```

Get Achievements !

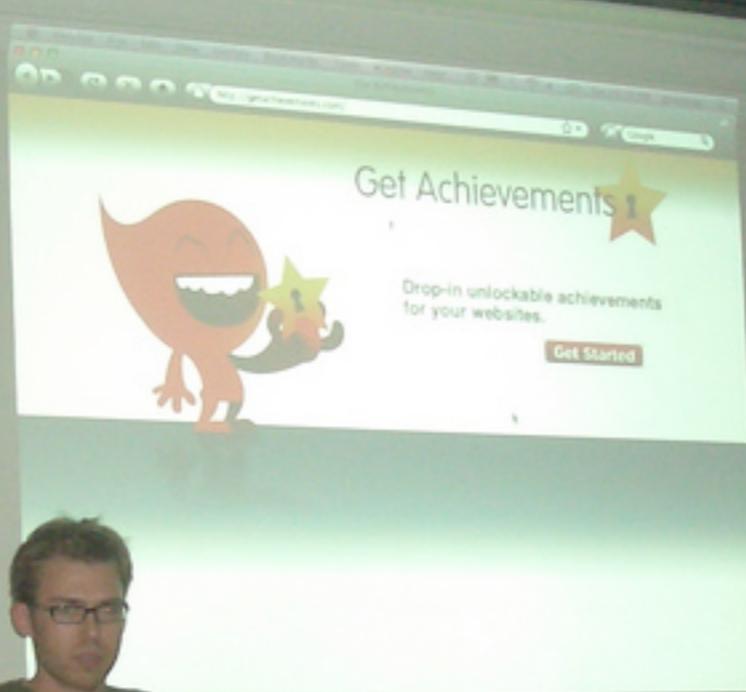


**Drop-in unlockable achievements
for your websites.**

Get Started

Made by [Jeff Lindsay](#). Hothead by [Derek Yu](#).

- 1. define achievements here**
- 2. add trigger pings to your backend**
- 3. paste javascript into your layout**



A man with glasses and a Mario t-shirt stands in front of a projector screen, gesturing with his hands while speaking.



not done yet, but...

QUESTIONS ?

more examples

ecommerce



project hosting



notifications



Hubilicious

plugins / platform



more examples

ecommerce



project hosting



notifications



Hubilicious

plugins / platform



more examples

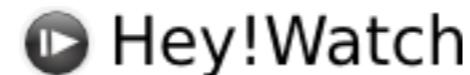
ecommerce



project hosting



notifications



plugins / platform



more examples

ecommerce



project hosting



notifications



Hubilicious

plugins / platform



payOff

FOR THE DEVELOPER

notifications
data syncing
chaining
modifications
plugins

payOff

FOR THE DEVELOPER

notifications
data syncing
chaining
modifications
plugins

payOff

FOR THE DEVELOPER

notifications
data syncing
chaining
modifications
plugins

payOff

FOR THE DEVELOPER

notifications
data syncing
chaining
modifications
plugins

payOff

FOR THE DEVELOPER

notifications
data syncing
chaining
modifications
plugins

payOff

FOR THE DEVELOPER

notifications
data syncing
chaining
modifications
plugins

one, simple solution



how to implement

1. design callback channels

per noun
wiki
project
account
plugin

or per verb on noun
crud?
install/uninstall
pre-commit/post-commit

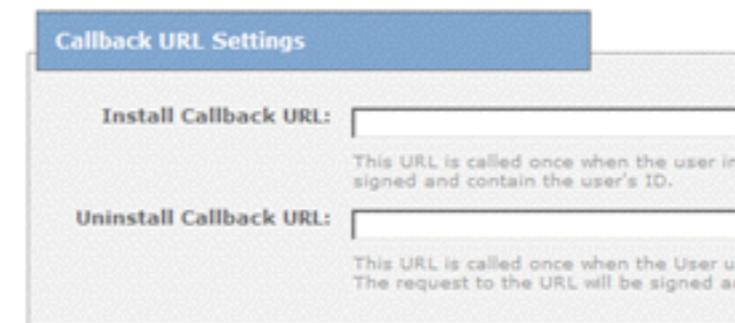
Web Hooks

A Web Hook is a simple way to send events to another users on this wiki. PBwiki will POST data (such as and more. See [webhooks.org](#) for more info.

Web Hook URL

Note: Be sure that you trust the data.

VS



2. create registration method

web ui

or

api

Post-Commit web hooks

Post-Commit URL:

Post-Commit Authentication Key:

Web Hook URL:
Note: Be sure that you

Post-Receive URLs

URL:

[Update Settings](#) [Help](#)

```
<OrderCallbackEndpoint>
  https://my.endpoint.com/receive.php
</OrderCallbackEndpoint>
<ProcessOrderOnCallFailure>true</ProcessOrderOnCallFailure>

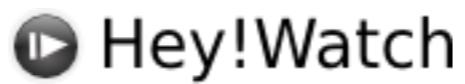
<filter name="example" fullData="true">
  <postURL>optional</postURL>
  <rule type="actor">ioc</rule>

<subscribe>
  <url href="http://example-listener.getping.com">
</subscribe>
```

both? :)

3. choose payload format

POST parameters



JSON



XML



4. add trigger code to events

```
class Widget < ActiveRecord::Base
  belongs_to :account

  def after_save
    perform_post(self.account.callback_url,
                :payload => self.to_json)
  end

end
```

5. consider these options

queuing posts

HMAC

verification

retry

return data

filtering

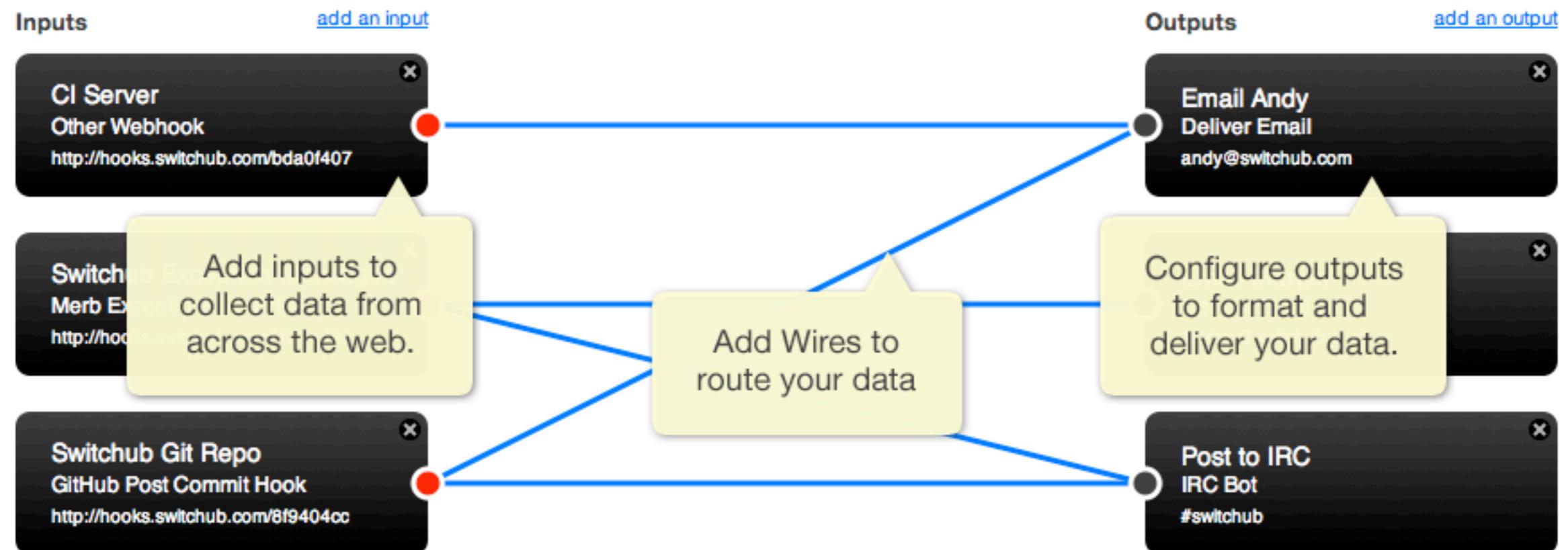
validation

The background features a minimalist design composed of several overlapping, semi-transparent grey circles of varying sizes, creating a sense of depth and organic flow.

ecosystem

Push data just hit the big time.

Introducing Switchhub, the simple, fast, reliable way to push content around the web.



Don't understand?

[Find out more about how it works](#)

Need an invite?

[Apply for one now](#)

Got an invite?

[Let's get you signed up](#)

[program / hookah](#) [edit](#) [pull request](#) [unwatch](#) [download](#) [21](#) [0](#)Description: The web hook event dispatcher [edit](#)Homepage: <http://webhooks.org> [edit](#)Public Clone URL: <git://github.com/program/hookah.git> Your Clone URL: <git@github.com:program/hookah.git>

tests are important!



Jeff Lindsay (author)

March 02, 2009

commit [ad12d4a37f74e7702b20900df5082b380912ce7a](#)
tree [0f6c1dd8a2d2223095701beca7353ae924d3725b](#)
parent [921ee18563ca68b980e5c125c6b9c68185b5d19a](#)[hookah /](#)

name	age	message	history
README.md	March 02, 2009	full readme and optional port argument [Jeff Lindsay]	
TODO	March 02, 2009	tests are important! [Jeff Lindsay]	
hookah.py	March 02, 2009	full readme and optional port argument [Jeff Lindsay]	

Hookah

The web hook event broker

About

Hookah was created to ease the implementation of web hooks in your web apps. Normally, assuming you have a way for users to register callback URLs, invoking a web hook can be as trivial as this Python pseudo-code:

PostBin

All POST requests to this URL are logged for you to see here, sorted newest to oldest.

- [#q2av4z](#) @ 05:21 Apr 22 2009 -- 208.96.6.144

```
"wiki": "webhooks",
"domain": "pbwiki.com",
"user_id": "c2f3cab283ae7d0f1e11853e41edf5271c0403d3",
"name": "unknown",
"ip": "67.169.167.232",
"secret": "AbCuPUDQYB",
"time": "1240377703",
"email": "progium@gmail.com",
"iploc": "Mountain View, CA",
"op": "logout"
```

- [#19gozx](#) @ 05:21 Apr 22 2009 -- 208.96.6.144

```
"wiki": "webhooks",
"domain": "pbwiki.com",
"user_id": "c2f3cab283ae7d0f1e11853e41edf5271c0403d3",
"name": "unknown",
"ip": "67.169.167.232",
"email": "progium@gmail.com",
"secret": "AbCuPUDQYB",
"time": "1240377659",
"page": "FrontPage",
"iploc": "Mountain View, CA",
"op": "mod"
```

- [#5xe0iz](#) @ 05:19 Apr 22 2009 -- 208.96.6.144

```
"wiki": "webhooks",
"domain": "pbwiki.com",
"user_id": "c2f3cab283ae7d0f1e11853e41edf5271c0403d3",
"name": "unknown",
"url": "http://www.postbin.org/s8wui1",
"ip": "67.169.167.232",
"secret": "AbCuPUDQYB",
"time": "1240377553",
"email": "progium@gmail.com",
"iploc": "Mountain View, CA",
"op": "sethook"
```

- [#109jk0](#) @ 05:19 Apr 22 2009 -- 208.96.32.23

```
"wiki": "webhooks",
"domain": "pbwiki.com",
"user_id": "c2f3cab283ae7d0f1e11853e41edf5271c0403d3",
```

Scriptlets

Language:

Not logged in. [Login?](#)

```
// JavaScript powered by Rhino
//
// Jack (http://tinyurl.com/adqv8w) app environment with req and resp objects.
// Make HTTP requests with: fetch(url, post_params) -> [code, body]
//
// Example (try uncommenting):
// resp.write("Hello! Your name: "+req.GET('name')+"

---

"+fetch('http://example.com')[1]);
```

[Use regular textarea](#)

to get a URL that will run this code.

[Home](#) | [Source Code](#) | [More info...](#)

feedback

protocol-droid



[program / restfulsocks](#)[edit](#)[pull request](#)[unwatch](#)[download](#)[🔍 2](#)[⭐ 1](#)[?](#)Description: TCP socket buffer via HTTP [edit](#)Homepage: [Click to edit](#) [edit](#)Public Clone URL: <git://github.com/program/restfulsocks.git> Your Clone URL: <git@github.com:program/restfulsocks.git>

humor



Jeff Lindsay (author)

March 19, 2009

commit [96dba24d6421dc54550878ca11d1a089fb706eda](#)
tree [af56e2d706c7716d8a98b1bcd25012ee68b6943e](#)
parent [802781cb156ad5c3076a1a1c73ed5a2b4cb90217](#)[restfulsocks /](#)

name	age	message	history
README	March 19, 2009	humor [Jeff Lindsay]	
sprocket.py	March 19, 2009	end of line whitespace! Signed-off-by: Jeff Li... [novas0x2a]	

This is an HTTP server that makes and holds persistent TCP socket connections as URLs that you can GET and POST to.

Try it:

Run `python sprocket.py`

Go to <http://localhost:8000/www.google.com:80>

You will be redirected to something like <http://localhost:8000/1237452811>

This is a socket URL

GET this URL to recv on socket

POST data to this URL to send on socket

Get it? Soon with HTTP callbacks... meaning easy socket programming with App Engine

TODO:

-rename project

-add callbacks

-start protocol handler framework

INBOX

[feed:localhost:3000/imap.gmail.com/program/INBOX.atom](#) [RSS](#) [Google](#)

[Bookmark](#) [Track Time](#) [Read Later](#) [Full Screen](#)

INBOX

3 Total

Re: Web Hooks On Oct 18, 2008, at 8:31 PM, Jeff Lindsay wrote:> Yes, I forgot to add you, thanks for remi... Today, 1:41 AM

Re: Intro: Web Hooks Jeff, Let's setup a time to talk about the Evang role. we don't have many slides... Yesterday, 12:19 PM

Short notes to help you set up your presentation Dear Jeff, Here a few short notes, based on our ex... Yesterday, 5:08 AM

Search Articles:

Article Length:

Sort By:

[Date](#)
[Title](#)
[Source](#)
[New](#)

Recent Articles:

[All](#)
[Today](#)
[Yesterday](#)
[Last Seven Days](#)
[This Month](#)
[Last Month](#)

Source: INBOX

Actions:

[Update Now](#)
[Mail Link to This Page](#)
[Subscribe in Mail](#)
[Add Bookmark...](#)

NetNewsWire (1 unread)

Subscribe New Folder Refresh All

Mark All As Read Next Unread Post to Weblog

Search

Latest News 1 Creator INBOX - 3 news items Date

Flagged Items Jesper Noehr Re: Web Hooks 1:41 AM

Clippings Jud Valeski Re: Intro: Web Hooks 18 Oct 2008

INBOX 1 alvin@headcon... Short notes to help you set up your presentation 18 Oct 2008

Short notes to help you set up your <head> presentation

INBOX - 10/18/08 5:08 AM Posted by alvin@headconference.com alvin@headconference.com

Dear Jeff,

Here a few short notes, based on our experiences so far, to help you set up your presentation:

- * Please do not move, resize, close, or open pods in the rooms. The rooms have been specifically setup for the conference and the layouts are shared by all speakers.
- * If you haven't had a chance to, please watch the speaker orientation video before starting as it will answer a number of your common questions.
Find it at:

1 unread

<http://localhost:3000/imap.gmail.com/program/INBOX/messages/>

Default (3.1)

protocol-droid

coming soon...



inspiration



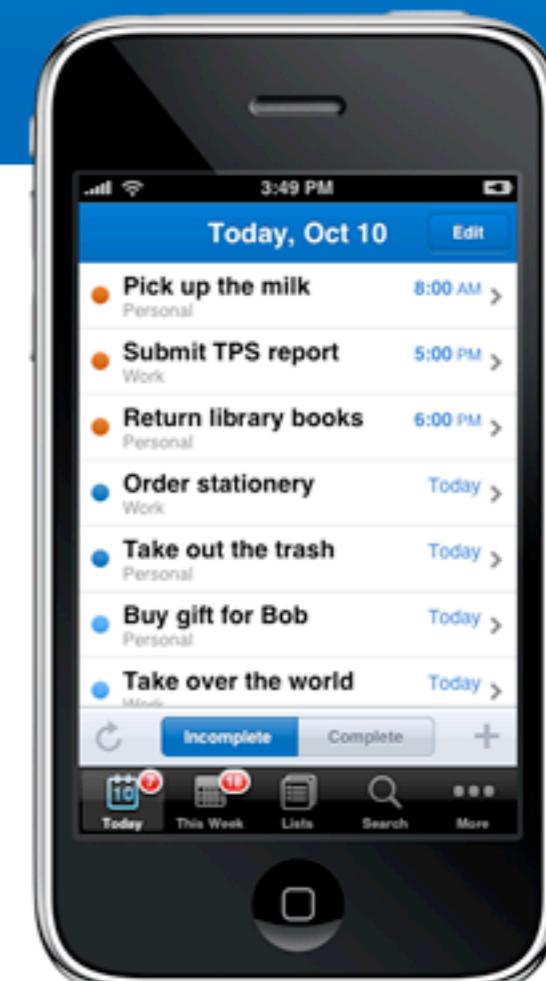
[Home](#)[Signup \(Free!\)](#)[Services](#)[Blog](#)[Help](#)

- Manage tasks from anywhere
- Get email, SMS, or IM reminders
- Share your tasks
- Access from your phone
- Manage tasks offline
- Use with Google Calendar
- Add tasks from iGoogle
- Sign up free!

The best way to manage your tasks.
Never forget the milk (or anything else) again.

[Signup Now!](#)

for a free account

Or, [take a tour](#)

New! Now available on the iPhone App Store.

Take your tasks anywhere with this feature-packed application. See tasks located nearby, add and complete tasks on the go, organize upcoming tasks, and sync it all seamlessly with Remember The Milk. Free download for [pro](#) users!

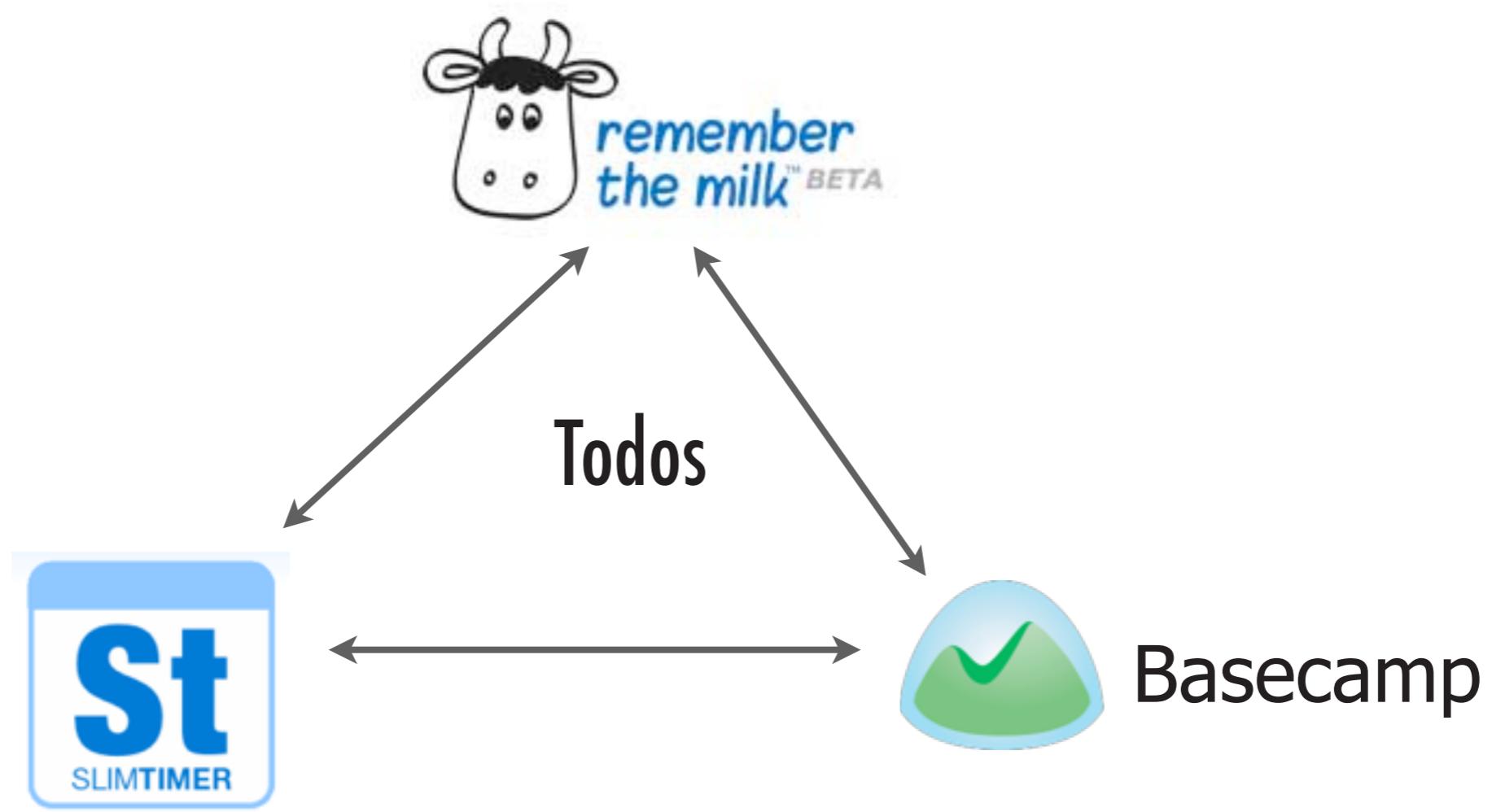
[Learn more about the app's features](#)



Get Remember The Milk on the
iPhone App Store

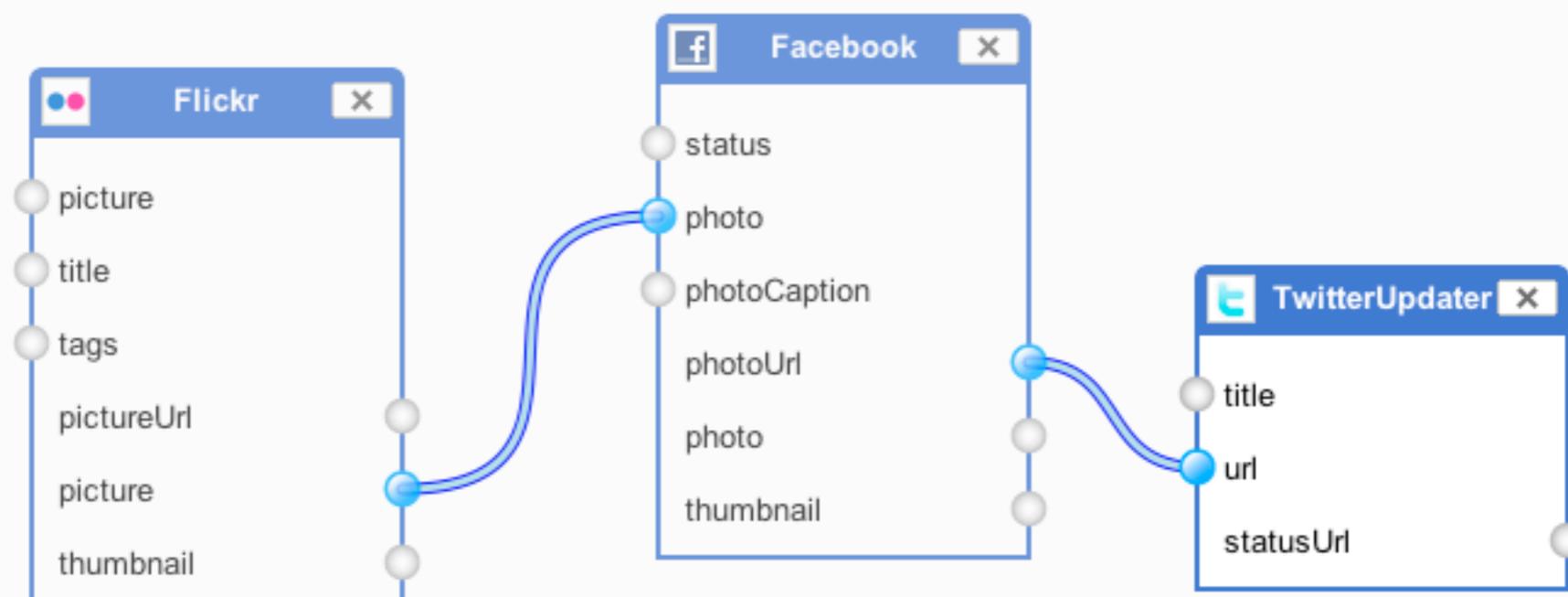


Remember The Milk is also available for...



[activity](#)[workflows](#)[accounts](#)[developers](#)**connectors**

23

[23hq](#)[Bitly](#)[Delicious](#)[Evernote](#)[Facebook](#)[Flickr](#)[FriendFeed](#)[GoogleGeocoder](#)[Identica](#)[is.gd](#)[Jaiku](#)[MailDecoder](#)[Mailer](#)[PhotoBucket](#)[Pikeo](#)[Plaxo](#)[Plurk](#)[Pownce](#)[close workflow](#)



Email:

Password:

[Sign up!](#) [Forgot password?!](#)

Login

Currently 180964 sites are monitored, 26058816 checks per day



External Monitoring

Monitor 24x7 websites, network devices and more

Instantly reports your site outage and response time.

Ensure ultimate web experience

[more info](#) | [Easy Start](#)



Internal Monitoring

Monitor CPU, memory, hard disk and Intranet

Inspects resource utilization and internal web services.

Proactively alerts critical server situations.

[more info](#) | [Easy Start](#)



Visitors Tracking

Track your website unique visitors, pages views and more

Understand your web users and business potential, marketing effectiveness and website load capacity

[more info](#) | [Easy Start](#)



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monitis



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- » [The Cheapest Domain Registration?](#)
- » [15 Tools to Help You Develop Faster Web Pages](#)

Anyone who charges for monthly fees
for things on the web should have
webhooks to post transaction info into
my accounting books...

1:00 PM Apr 19th from web



johnboxall

John Boxall

Flickr: From your Contacts

http://flickr.com/photos/friends/

Signed in as program (16 new) Help Sign Out

Home You Organize Contacts Groups Explore Search

Search your contacts' photostream Slideshow

Your contacts

Recent uploads Contact List Who calls you a Contact? Invite Find your friends

 From [Laughing Squid](#)

 From [miss_rogue](#)

 From [Jesse!](#)

 From [kaflurbaleen](#)

 From [Jérémie](#)

 From [Little Keebler](#)

 From [Fenchurch!](#)

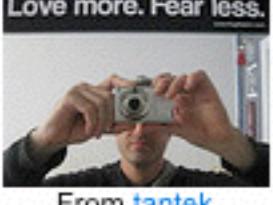
 From [factoryjoe](#)

 From [mdmcnilly](#)

 From [cee-dub](#)

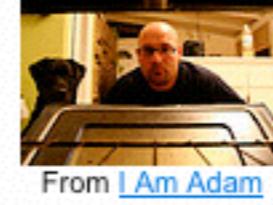
 From [bees](#)

 From [ketiya](#)

 From [tantek](#)

 From [tigsource](#)

 From [ArtofReanimation](#)

 From [I Am Adam](#)

 From [brianschulman](#)

 From [irina slutsky](#)

Done

Flickr: From your Contacts

http://flickr.com/photos/friends/

Signed in as program (16 new) Help Sign Out

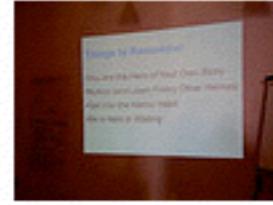
Home You Organize Contacts Groups Explore Search

Search your contacts' photostream Slideshow

Your contacts

Recent uploads Contact List Who calls you a Contact? Invite Find your friends

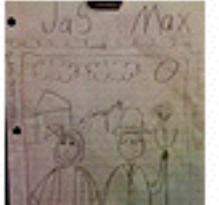
 From [Laughing Squid](#)

 From [miss rogue](#)

 From [Jesse!](#)

 From [kaflurbaleen](#)

 From [Jérémie](#)

 From [Little Keebler](#)

 From [Fenchurch!](#)

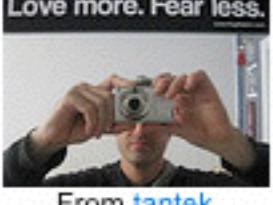
 From [factoryjoe](#)

 From [mdmcnilly](#)

 From [cee-dub](#)

 From [bees](#)

 From [ketiya](#)

 From [tantek](#)

 From [tigsource](#)

 From [ArtofReanimation](#)

 From [slutsky](#)

Love more. Fear less.

Hey, there's an event hook here!

Flickr: From your Contacts

http://flickr.com/photos/friends/

Signed in as program (16 new) Help Sign Out

Home You Organize Contacts Groups Explore Search

Search your contacts' photostream Slideshow

Your contacts' photostream

Recent uploads

From Laughing Squid

From Fenchurch!

From factoryjoe

From tigsource

From ArtofReanimation

From I Am Adam

From brianschulman

From irina slutsky

Save

```
<?php  
  
$operation = $_POST['operation'];  
  
if ($operation == "project_completed") {  
  
    $projectName = $_POST['project_name'];  
  
    $mailingList = "our-team@mycompany.com";  
    $subject = "We completed {$projectName}!";  
    $body = "Let's get drunk. Meet in break room.";  
  
    mail($mailingList, $subject, $body);  
}  
?  
/?
```

Done



future

what to expect from webhooks



sharing



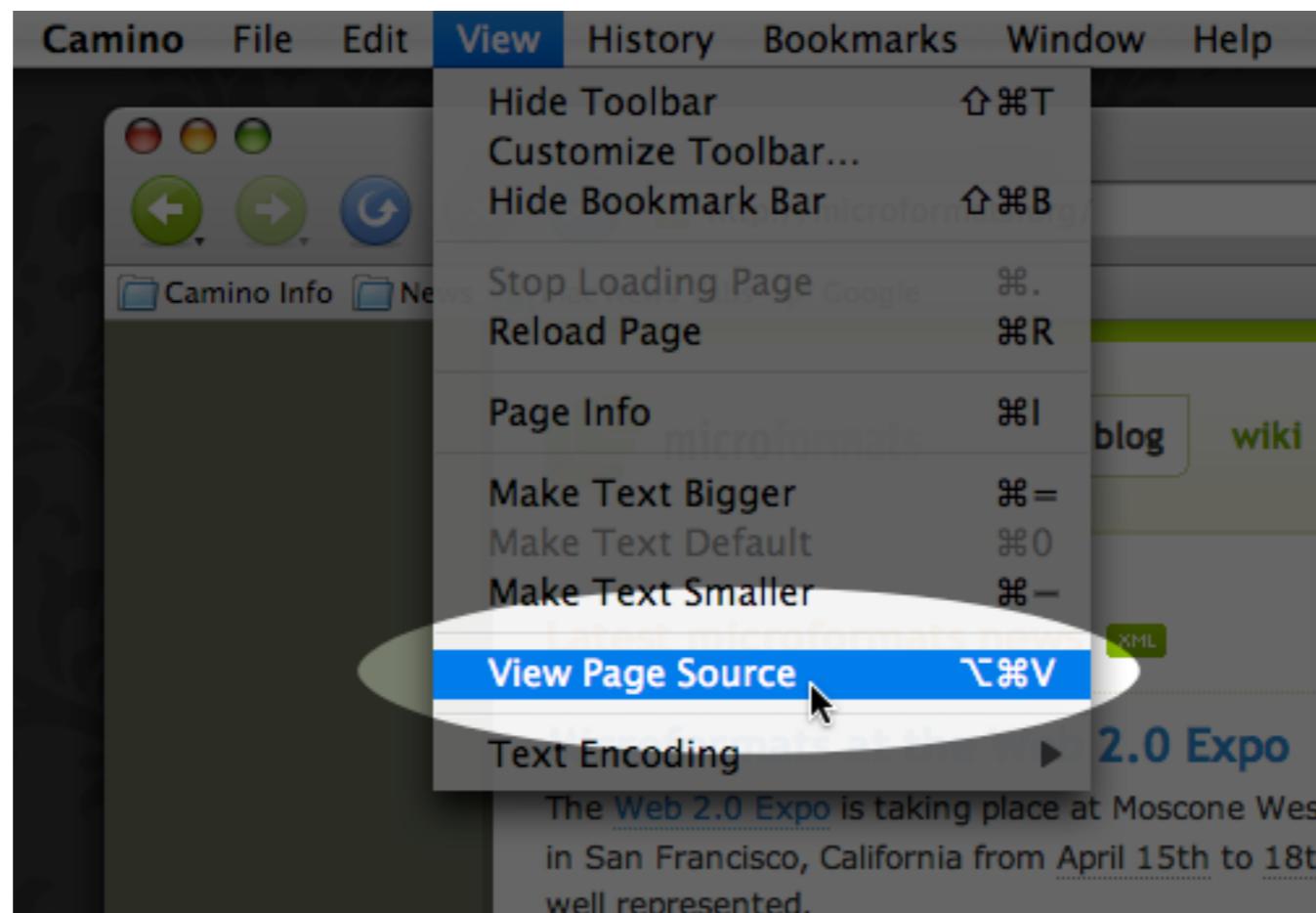
standardization

tools

integration



what to expect from webhooks



web of things

embedded devices are getting
more **powerful** and **connected**



web of things

“API for everything”



programming literacy

As programming becomes more important, it will leave the back room and become a key skill and attribute of our top intellectual and social classes, just as reading and writing did in the past.

Marc Prensky

program the **world**

cloud computing

+

web of things

== near real “magic”

+

easier programmability

**problem
solution
examples
implementation
inspiration
future**

use webhooks!



join the community
<http://webhooks.org>

ok, it's over...

Q U E S T I O N S ?