### **WEBHOOKS**

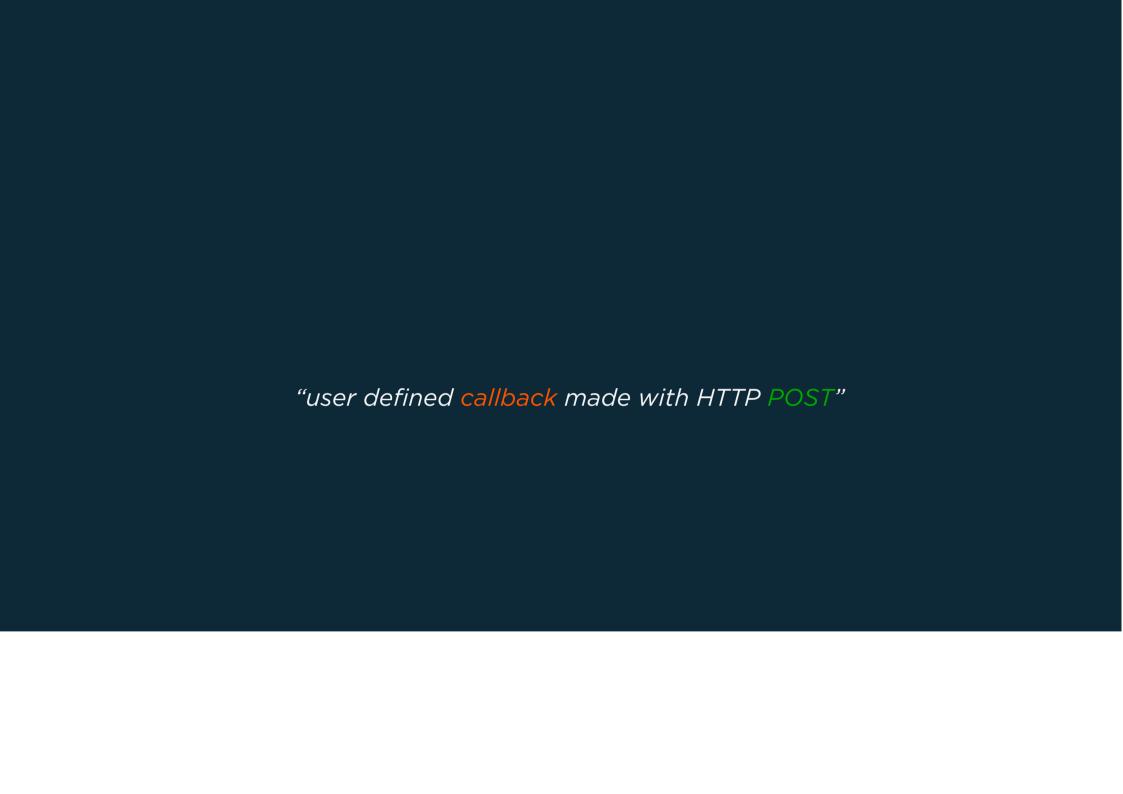
# Who never heard of webhooks?

Who never used some?

## Who already implemented webhooks in their application?

"A webhook in web development is a method of augmenting or altering the behavior of a web page, or web application, with custom callbacks. These callbacks may be maintained, modified, and managed by third-party users and developers who may not necessarily be affiliated with the originating website or application."

**Wikipedia** 



"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." 1. When something happens, perform HTTP POST with relevant data to a URL that the user gives you.

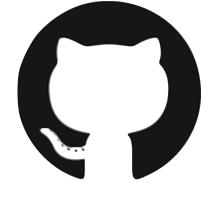
### That's all!

Easy right?

# Google



## stripe













## A few examples

#### **Google calendar PUSH notifications**

```
POST https://www.googleapis.com/calendar/v3/calendars/my_calendar@gmail.com/events/watch
Authorization: Bearer auth_token_for_current_user
Content-Type: application/json

{
    "id": "01234567-89ab-cdef-0123456789ab", // Your channel ID.
    "type": "web_hook",
    "address": "https://mydomain.com/notifications", // Your receiving URL.

"token": "target=myApp-myCalendarChannelDest", // (Optional) Your channel token.
    "expiration": 1426325213000 // (Optional) Your requested channel expiration time.
}
}
```

#### **Google calendar PUSH notifications**

```
POST https://mydomain.com/notifications // Your receiving URL.
X-Goog-Channel-ID: channel-ID-value
X-Goog-Channel-Token: channel-token-value
X-Goog-Channel-Expiration: expiration-date-and-time // In human-readable format; present only if channel expires.
X-Goog-Resource-ID: identifier-for-the-watched-resource
X-Goog-Resource-URI: version-specific-URI-of-the-watched-resource
X-Goog-Resource-State: sync
X-Goog-Message-Number: 1
```

#### **Github webhooks**

```
POST https://api.github.com/repos/:owner/:repo/hooks
Content-Type: application/json

{
    "name": "web",
    "active": true,
    "events": [
        "push",
        "pull_request"
    ],
    "config": {
        "url": "http://example.com/webhook",
        "content_type": "json"
    }
}
```

#### **Github webhooks**

```
POST /payload HTTP/1.1
X-Github-Delivery: 72d3162e-cc78-11e3-81ab-4c9367dc0958 Content-Type: application/json
Content-Length: 6615
X-GitHub-Event: issues
  "action": "opened",
  "issue": {
    "url": "https://api.github.com/repos/octocat/Hello-World/issues/1347",
    "number": 1347,
  "repository" : {
    "id": 1296269,
    "full_name": "octocat/Hello-World",
    "owner": {
      "login": "octocat",
      "id": 1,
    },
  "sender": {
    "login": "octocat",
    "id": 1,
```

### Digging deeper

## twitter.addWebHook('newfollower', 'http://example.com/eventhandler');