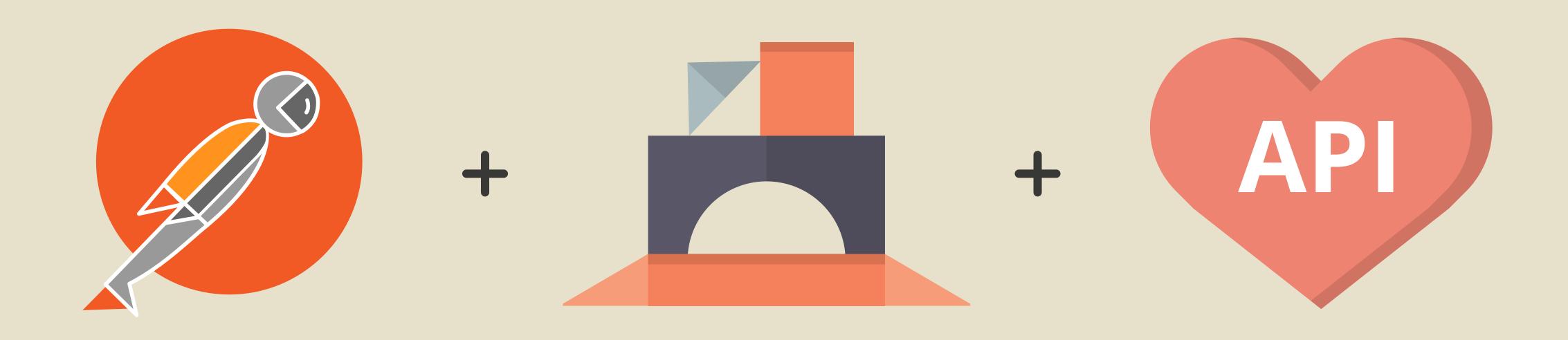


Scaling up tech and product from 0 to 3+ million users at Postman

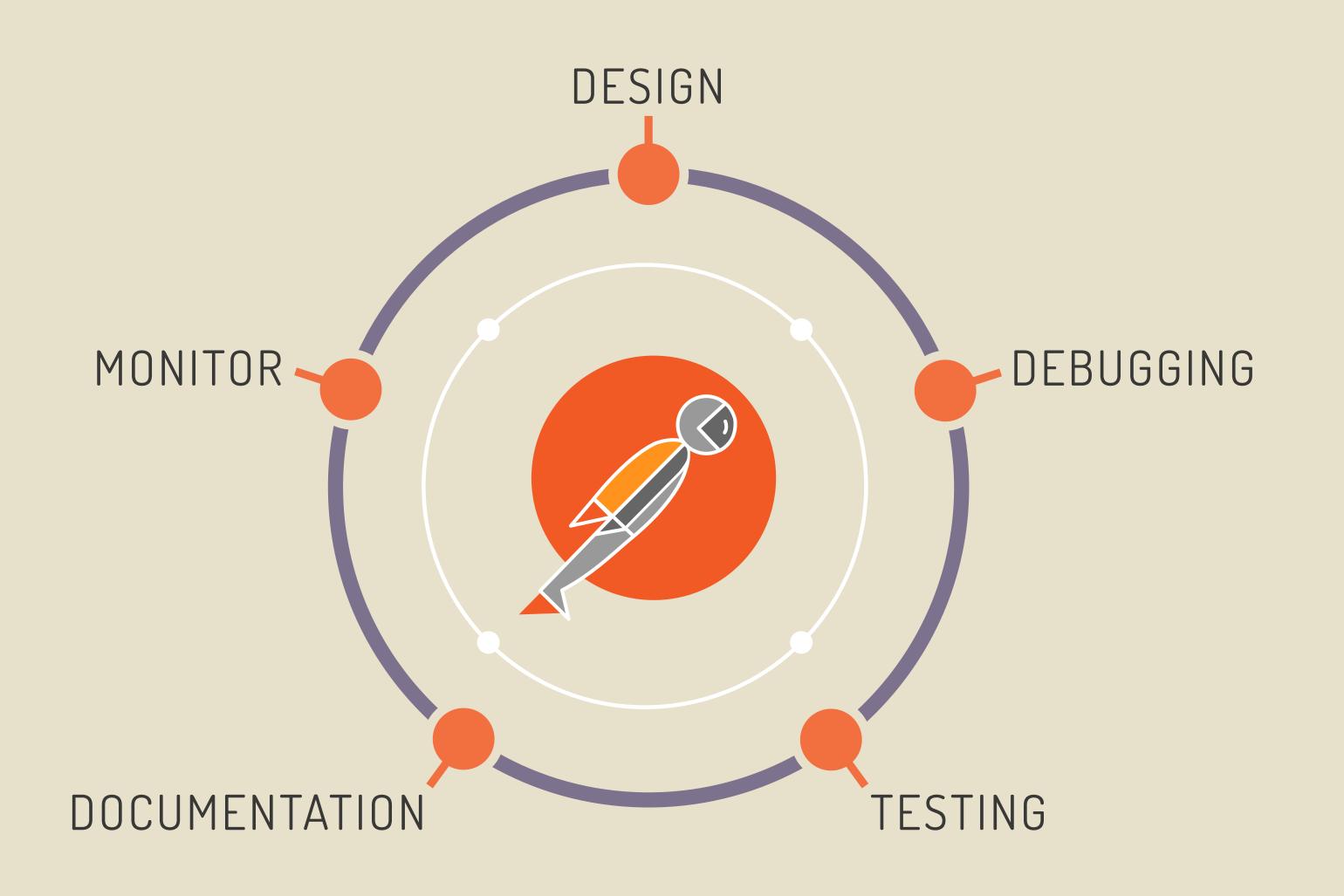
About Me



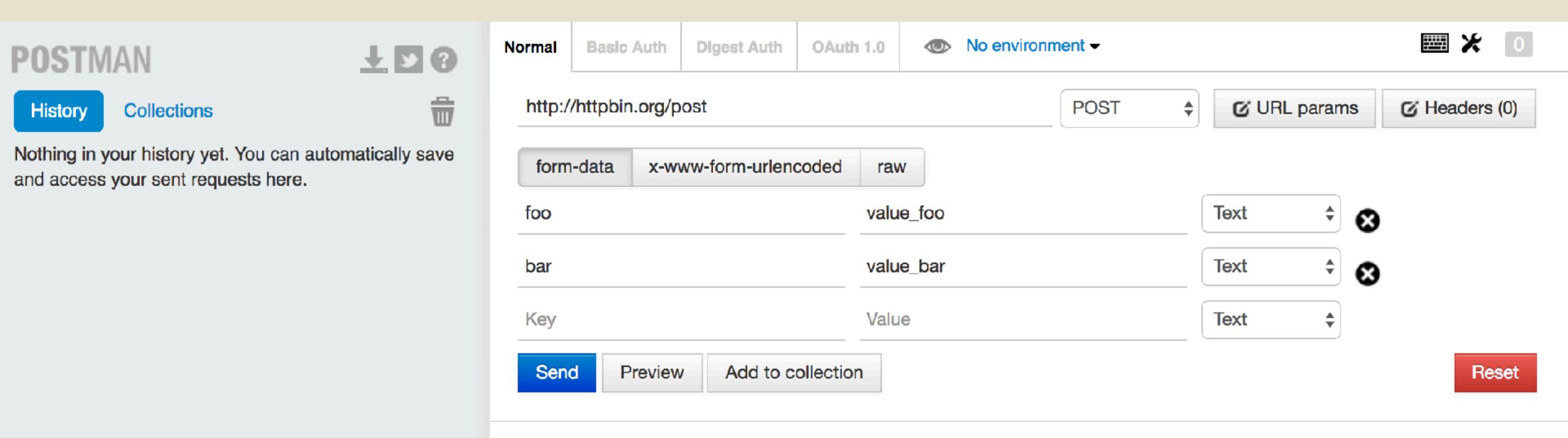
Founder of Postman

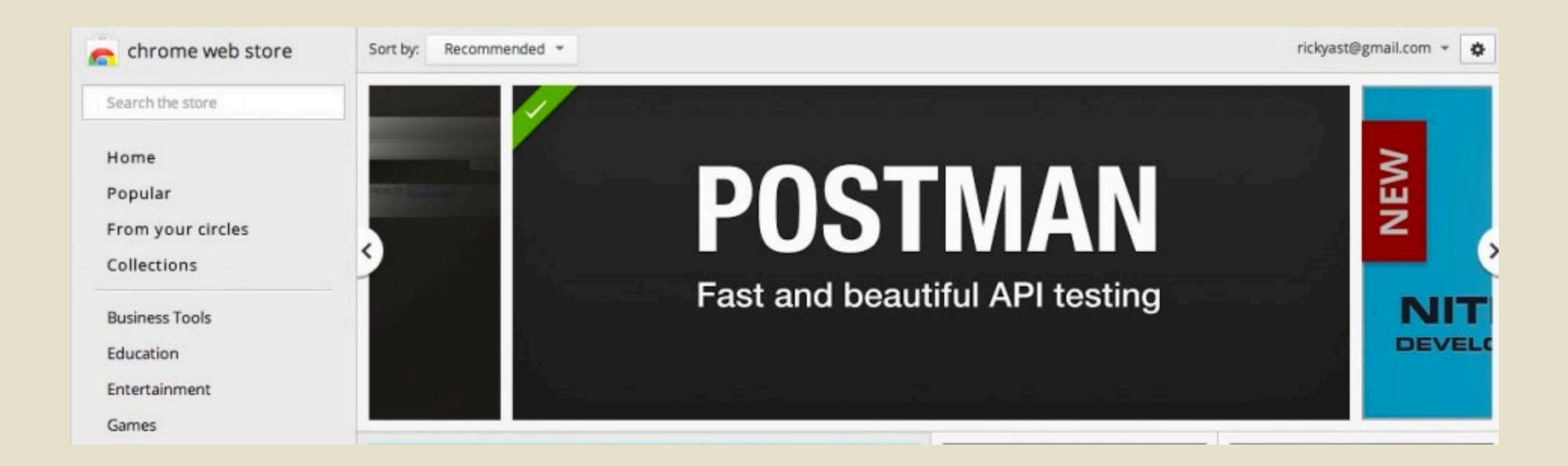
A Builder Since 2012 Passionate about APIs

Postman is solving for the API workflow



2012 - Legacy app

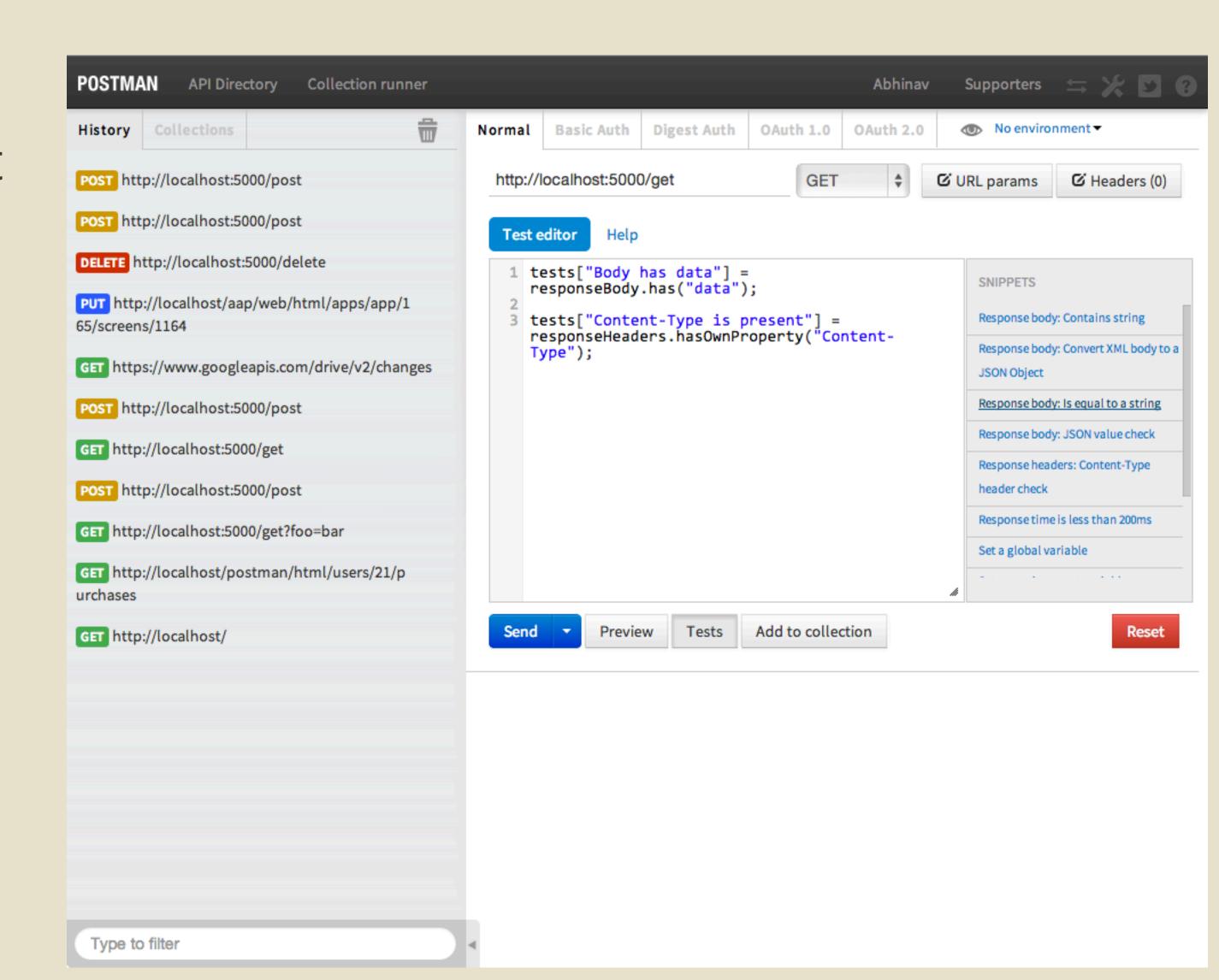




- Legacy features: JSON parsing, JSON editing, Authorization flows, Organize your API requests in Collections
- New Chrome app platform comes along!
 - New features: OAuth 2, Sharing links, User accounts
 - Paid feature: Jetpacks (Testing sandbox)

2013 - Chrome app

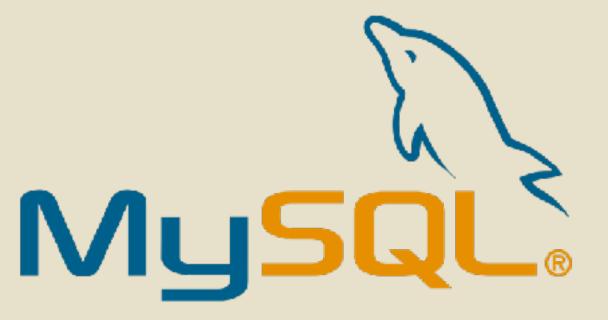
- Lots of refactoring = Lots of files split across folders. jQuery and plugins
- Adopted Backbone.js. Decided against using AngularJS or any other fancy framework - Didn't understand it.
- Legacy app between 100-150K
 users.



2013 - Chrome app

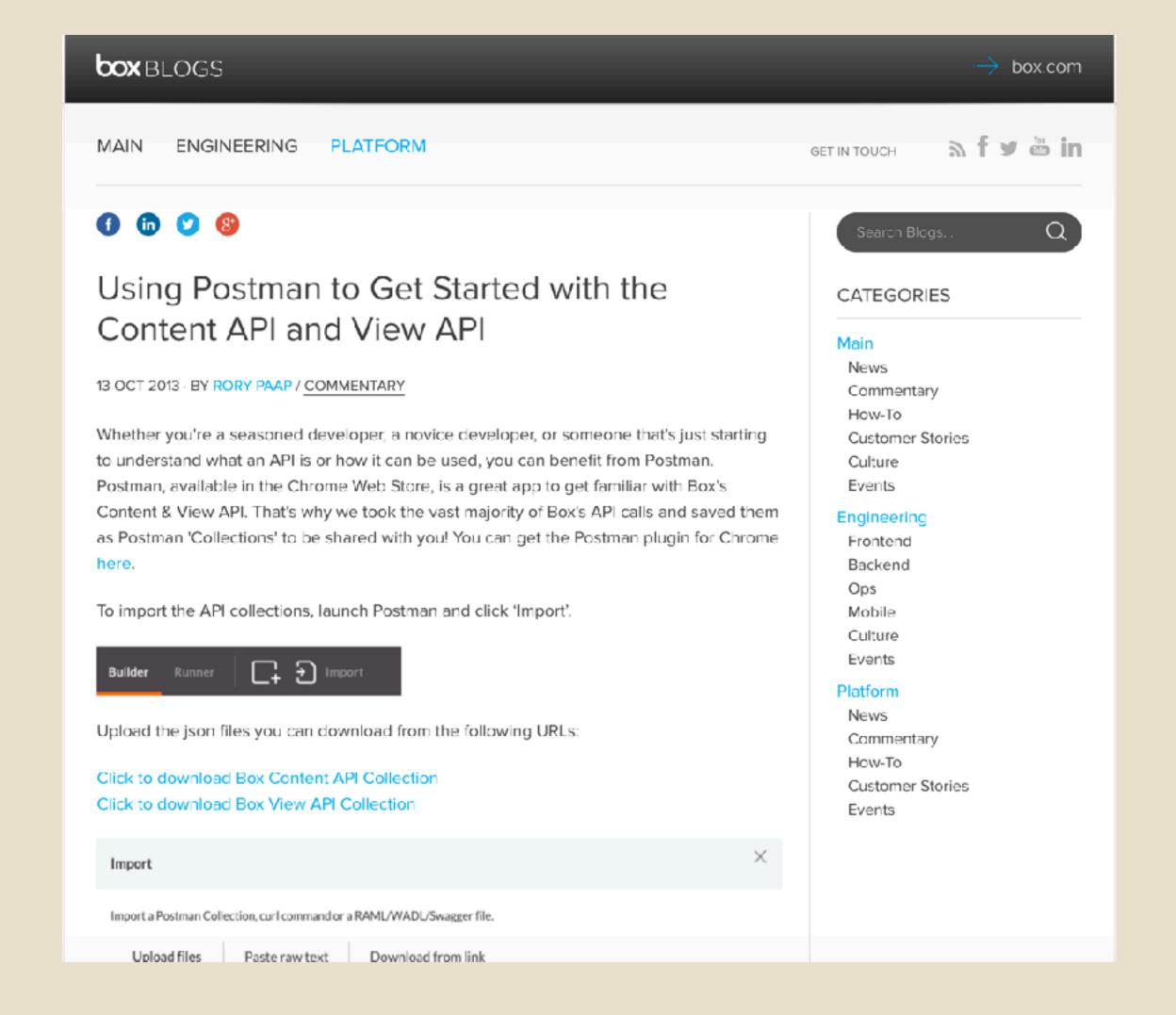
- Postman Interceptor vanilla Javascript
- · Also had a website: getpostman.com -
- Linode and PHP using the Slim Framework, MySQL







- Newman for build system integration Node.js
- Box publishes a blog post talking about Collections and how it's super easy to share API calls.
- 500K users on Chrome Web Store both legacy + Chrome app





Got a tip? Let us know.

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Postman, An API Development Platform Used By Box And Others, Raises \$1M

Posted May 26, 2015 by **Jon Russell** (@jonrussell)























- Let's build a collaboration platform and solve for the API workflow!
- Wait...let's make it real-time and solve account syncing first.
- Sails.js based MVP for syncing account data

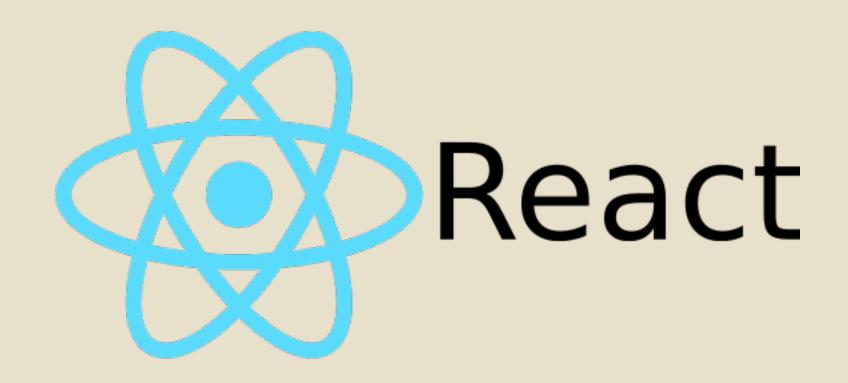




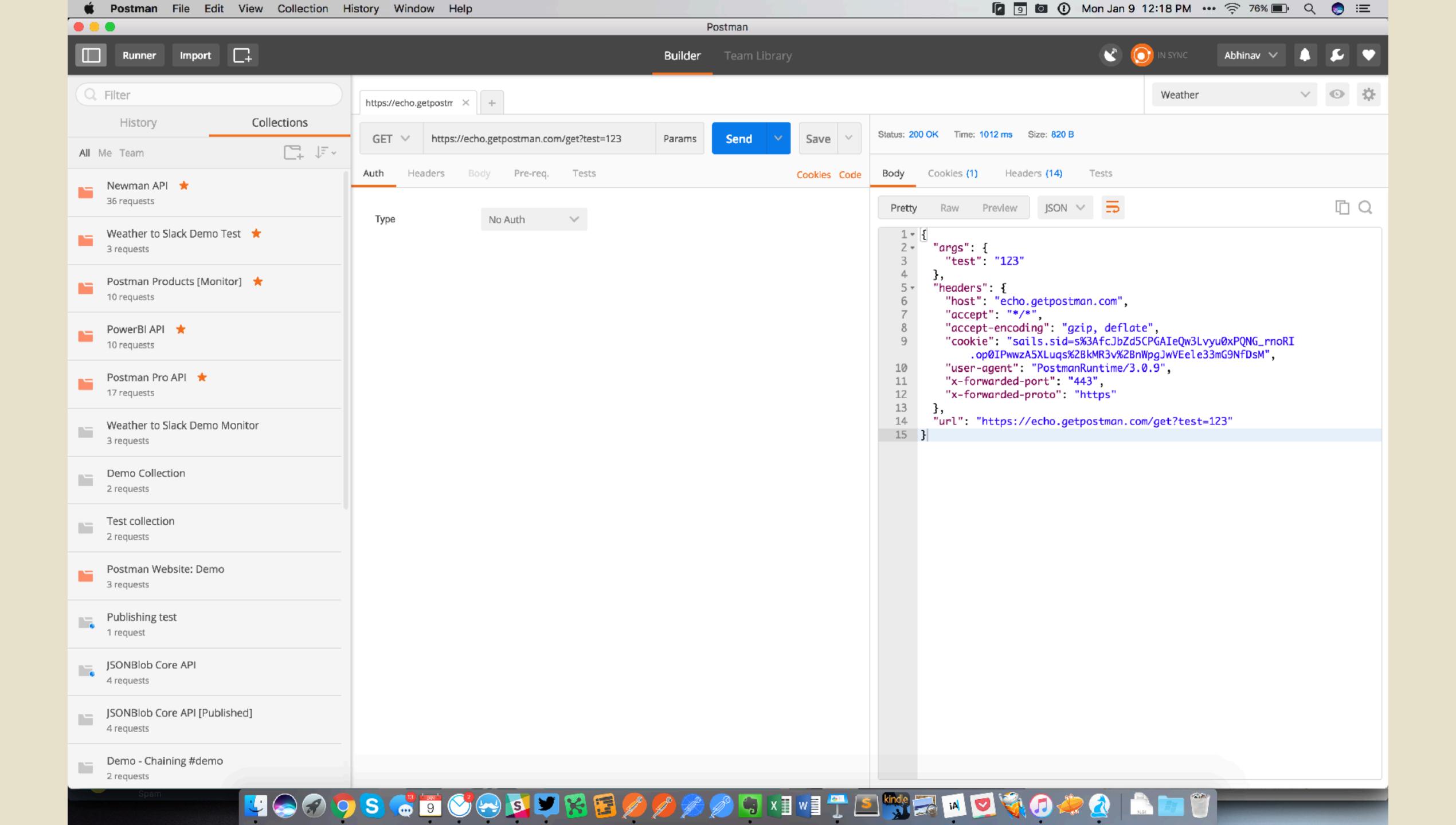
- Users start signing up in thousands per day
- Scale up Sync!
 - Move to Amazon Web Services
 - Start fixing the platform parity problem
 - Need to improve the user experience for the app



- Start refactoring the app (again)
 - React.js
 - Individual components
- But: people want native apps. They don't love the Chrome app so much.
 Also, Chrome is not evolving. Let's build a native app.







- · Apps on 4 different environments: Windows, MacOS, Linux, Chrome Apps
 - React + Electron + Node.js (Native apps managed through our own release server)
- Command line: Node.js
- Server side
 - PHP on Linode
 - Node.js + Sails.js on AWS

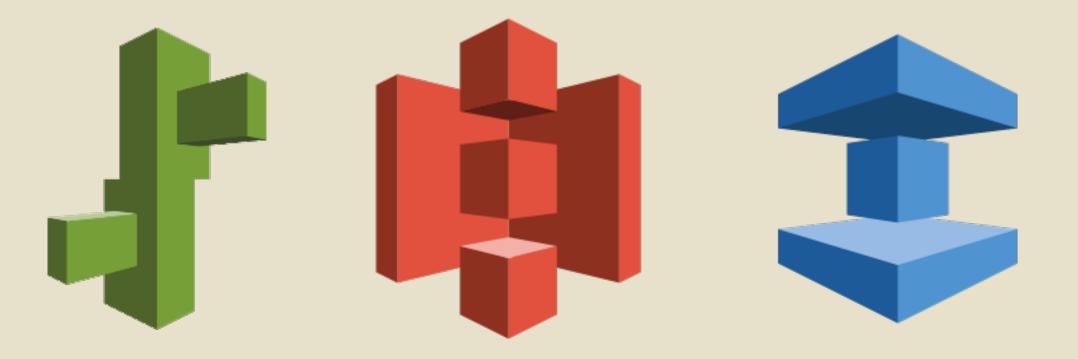
- Product complexity has been increasing with every launch
- PHP was being a drag on the development team. Lots of APIs started accumulating in the PHP code base. Moved everything to AWS.
- Started building new features (documenter) separately. Node.js + Sails.js
- Launched monitors with Postman Pro open sourced Postman Runtime
- Launched the Postman Pro API

- Other parts of the stack
 - ElasticSearch for analytics
 - PowerBI for business dashboards
- AWS usage has gone up significantly
 - Elastic Beanstack, S3, Amazon RDS,
 - Elastic Load Balancing, ElastiCache
 - AWS Virtual Private Cloud
 - Lambda triggers in some cases









2017 and beyond

- Tons of new features coming up for Postman and Postman Pro
- How to maintain complexity while scaling up? We use **Postman** for that.
- Conway's law is a huge problem: Issues come up at the seams. People don't want to go into codebases of others.
- Refactoring and testing needs to be built into product timelines

Lessons learnt

- Use only what you understand
- Your tech stack is for your users
- You will have to re-write it anyway
- Tech validation only happens after product validation
- Remember Conway's law

THANK YOU!

@a85



Q & A

