

CLOUD FOUNDRY

—  —
SUMMIT 2017

OCTOBER 11-12
SWITZERLAND

FREEDOM TO CREATE





As an app developer I want to instantly update my app in CF

Xiwen Cheng, Tech Lead Cloud, *Mendix*

“As a developer, you’re being asked to innovate quicker, respond to customers & fail faster”

– *Abby Kearns*

(CF Summit, June 2017)









<https://twitter.com/cloudfoundry/status/874760794814205952>












Use Cloud Foundry as app development environment



Services Marketplace

	3scale API Management API Management Platform
	App Autoscaler Scales bound applications in response to load
	BlazeMeter Performance Testing Platform
	Cedexis Openmix Openmix Global Cloud and Data Center Load Balancer
	Cedexis Radar Free Website and Mobile App Performance Reports
	Circuit Breaker Circuit Breaker Dashboard for Spring Cloud Applications
	ClearDB MySQL Database Highly available MySQL for your Apps.
	CloudAMQP Managed HA RabbitMQ servers in the cloud

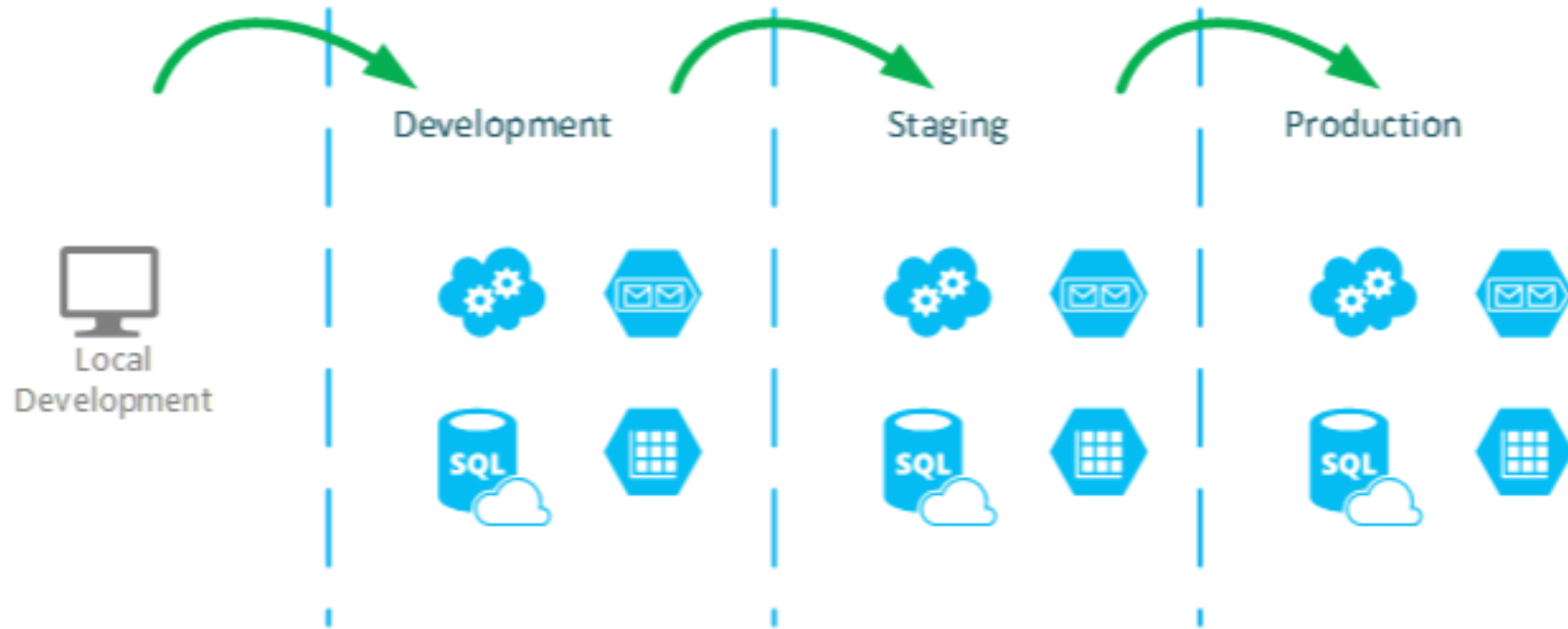
	Pivotal SSL Upload your SSL certificate for your app(s) on your custom domain
	PubNub Build Realtime Apps that Scale
	Redis Cloud Enterprise-Class Redis for Developers
	Searchify Custom search you control
	Searchly Elasticsearch Search Made Simple. Powered-by Elasticsearch
	SendGrid Email Delivery. Simplified.
	Service Registry Service Registry for Spring Cloud Applications
	Statica Enterprise Static IP Addresses
	Streamdata.io Efficiently Turn APIs into Real-time Experiences

- `cf create-service`
- `cf bind-service`

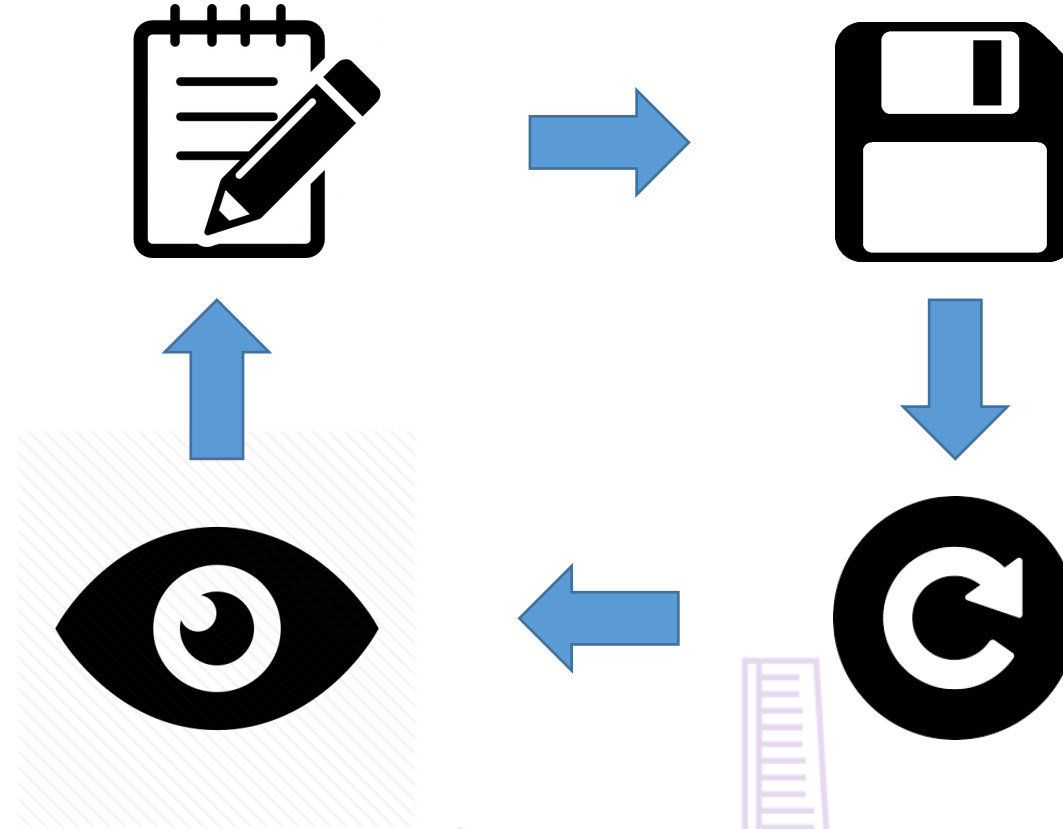
Integrations



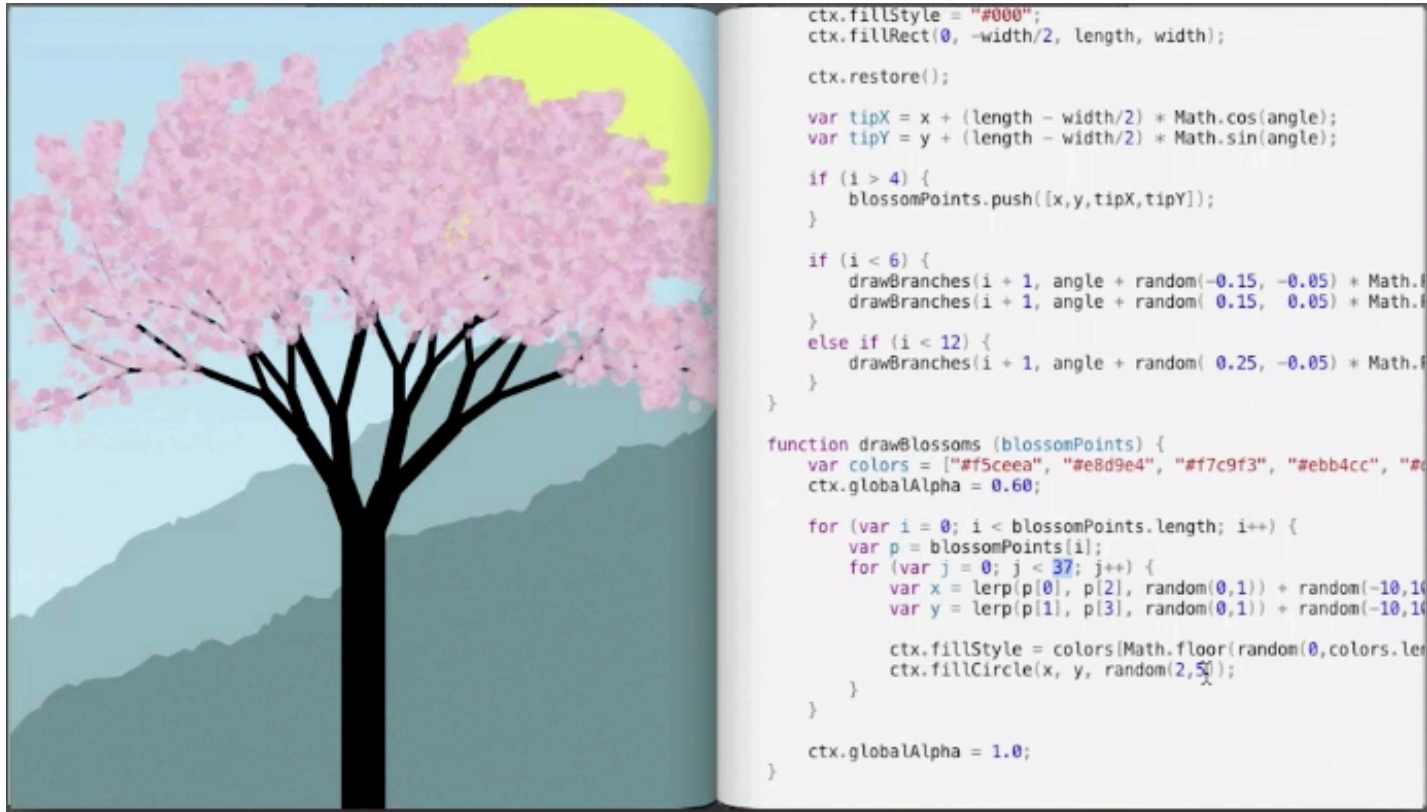
Identical environments



Develop a **PHP** web app



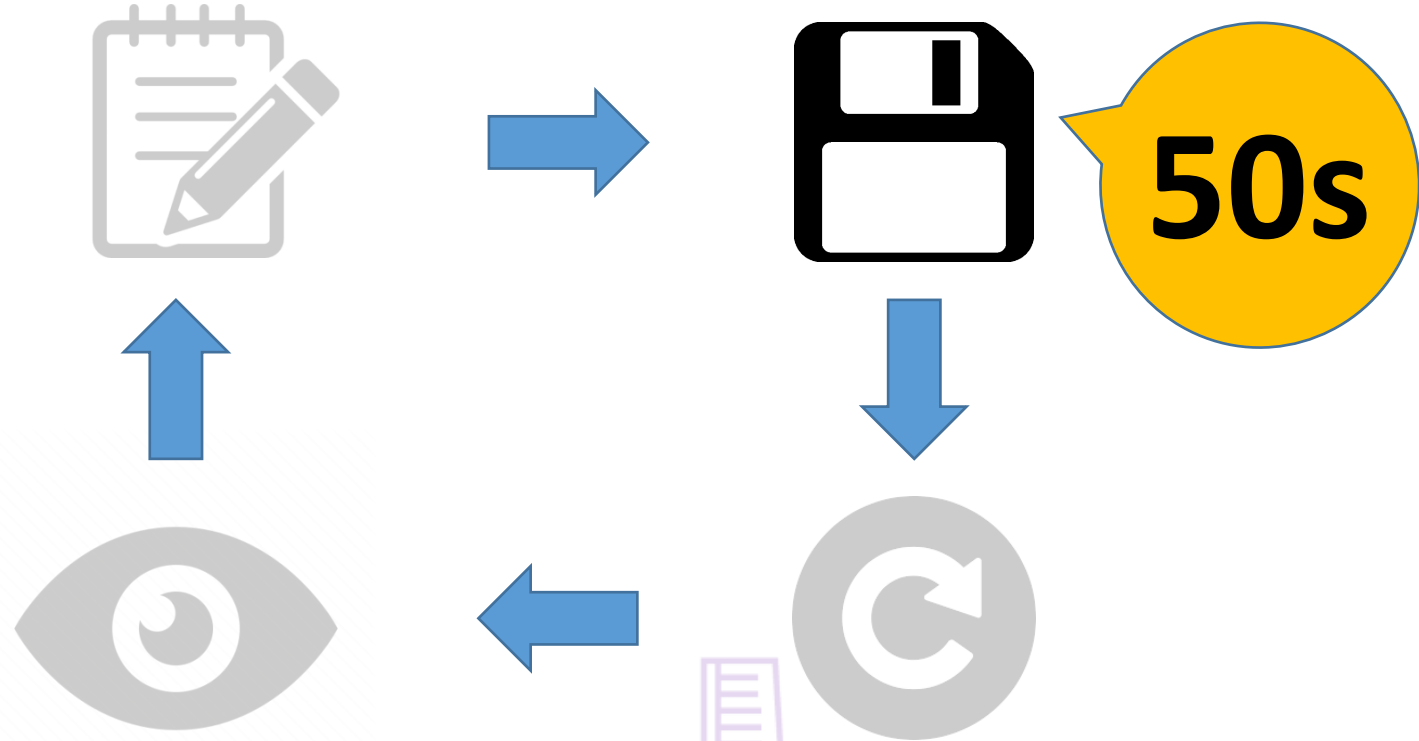
Live Programming



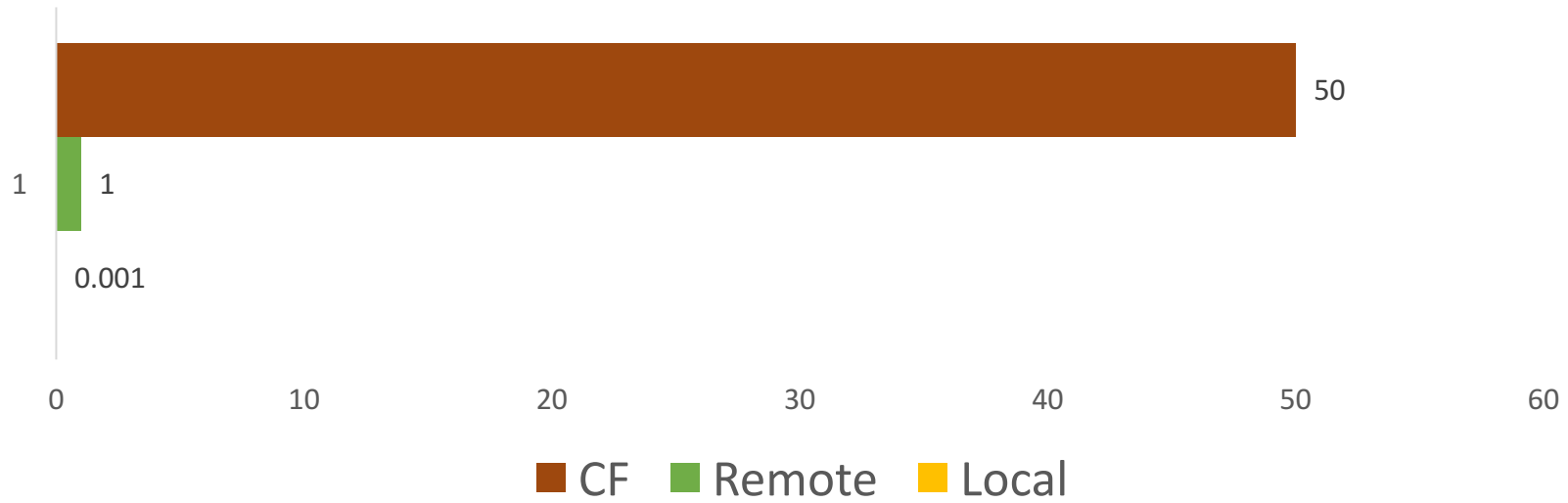
[Bret Victor – Inventing on Principle](#)

vimeo.com/36579366

cf push phpapp



Speed comparison



cf logs --recent

```
2017-09-22T16:30:50.27+0200 [CELL/SSHD/0] OUT Exit status 0
2017-09-22T16:30:50.27+0200 [APP/PROC/WEB/0] OUT Exit status 143
2017-09-22T16:30:50.28+0200 [CELL/0] OUT Destroying container
2017-09-22T16:30:50.66+0200 [CELL/0] OUT Successfully destroyed container
2017-09-22T16:30:52.38+0200 [STG/0] OUT Downloading php_buildpack...
2017-09-22T16:30:53.25+0200 [STG/0] OUT Successfully created container
2017-09-22T16:30:52.44+0200 [STG/0] OUT Downloaded php_buildpack
2017-09-22T16:30:52.44+0200 [STG/0] OUT Creating container
2017-09-22T16:30:53.65+0200 [STG/0] OUT Downloaded app package (575B)
2017-09-22T16:30:53.72+0200 [STG/0] OUT -----> Buildpack version 4.3.42
2017-09-22T16:30:53.57+0200 [STG/0] OUT Downloading build artifacts cache...
2017-09-22T16:30:53.57+0200 [STG/0] OUT Downloading app package...
2017-09-22T16:30:54.88+0200 [STG/0] OUT Installing PHP
2017-09-22T16:30:54.42+0200 [STG/0] OUT Installing HTTPD
2017-09-22T16:30:54.42+0200 [STG/0] OUT HTTPD 2.4.27
2017-09-22T16:30:54.57+0200 [STG/0] OUT Downloaded [file:///tmp/buildpacks/f4b9c9c53c61bae91a2
_dependencies_httpd_httpd-2.4.27-linux-x64-eb06494.tgz] to [/tmp]
2017-09-22T16:30:55.16+0200 [STG/0] OUT Downloaded [file:///tmp/buildpacks/f4b9c9c53c61bae91a2
_dependencies_php_php-5.6.31-linux-x64-2551a0b1.tgz] to [/tmp]
2017-09-22T16:30:54.88+0200 [STG/0] OUT PHP 5.6.31
2017-09-22T16:30:57.13+0200 [STG/0] OUT Finished: [2017-09-22 14:30:57.137016]
2017-09-22T16:31:09.11+0200 [STG/0] OUT Exit status 0
2017-09-22T16:31:09.18+0200 [STG/0] OUT Uploaded build artifacts cache (220B)
2017-09-22T16:31:09.11+0200 [STG/0] OUT Unloading droplet, build artifacts cache...
```

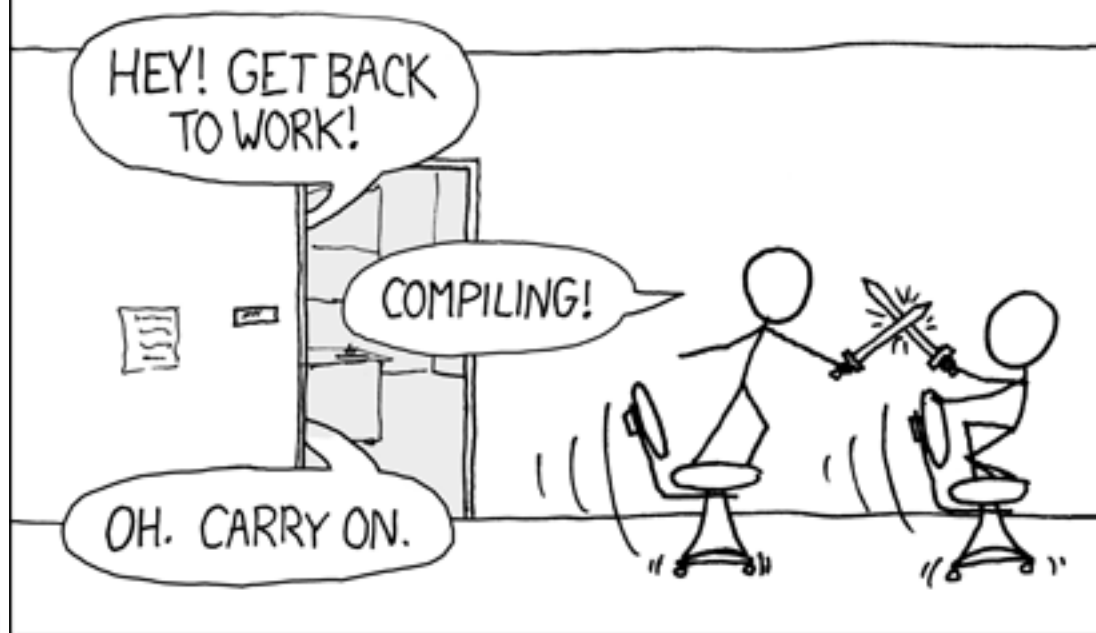


cf push: 50 seconds

■ Upload ■ Compile ■ Droplet ■ Run ■ Other



THE #1 PROGRAMMER EXCUSE
FOR LEGITIMATELY SLACKING OFF:
"MY CODE'S COMPILING."







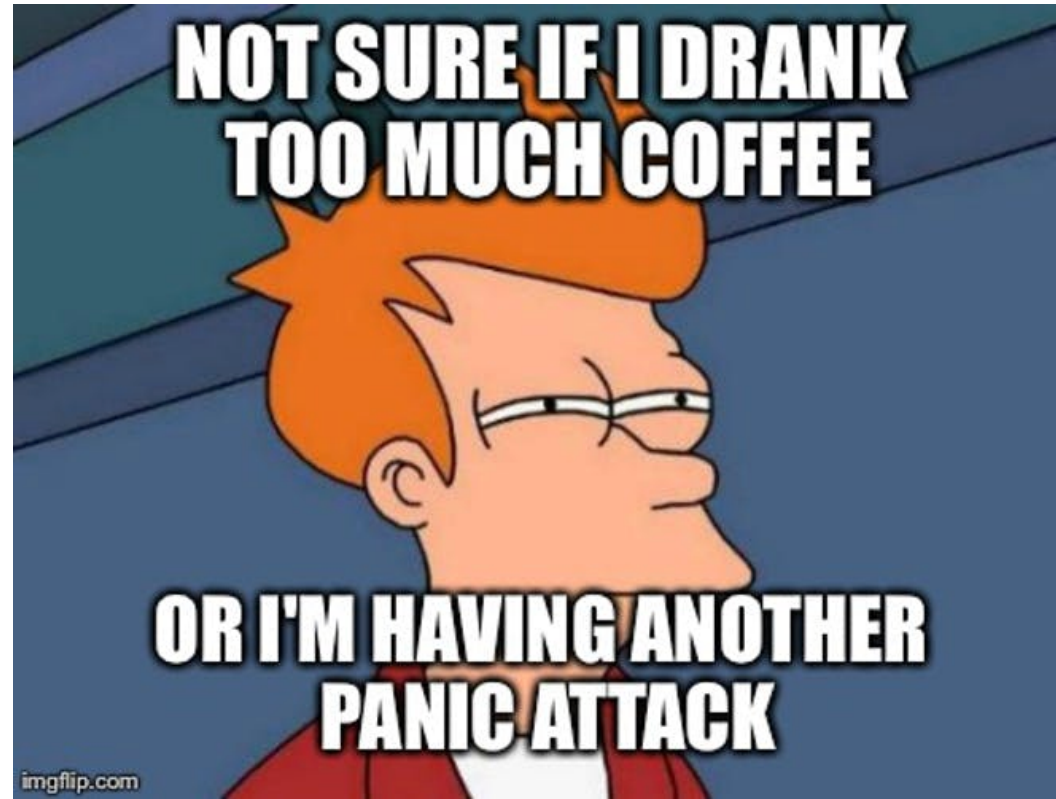
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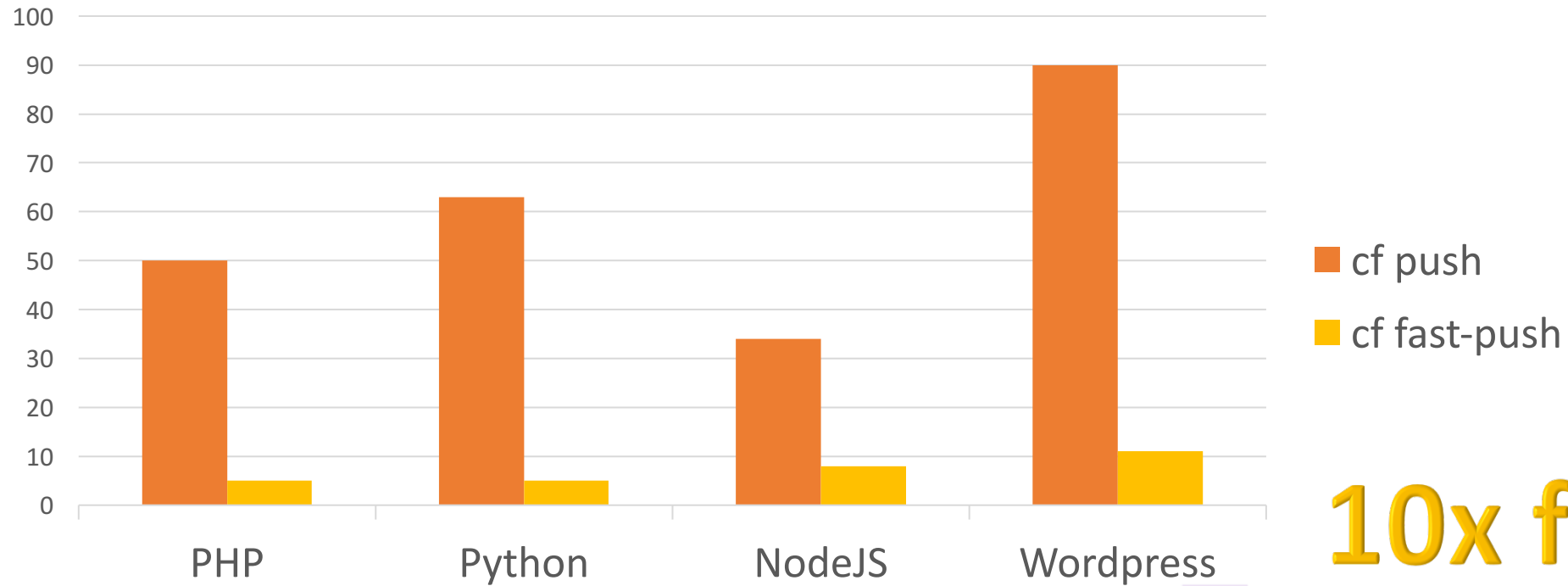


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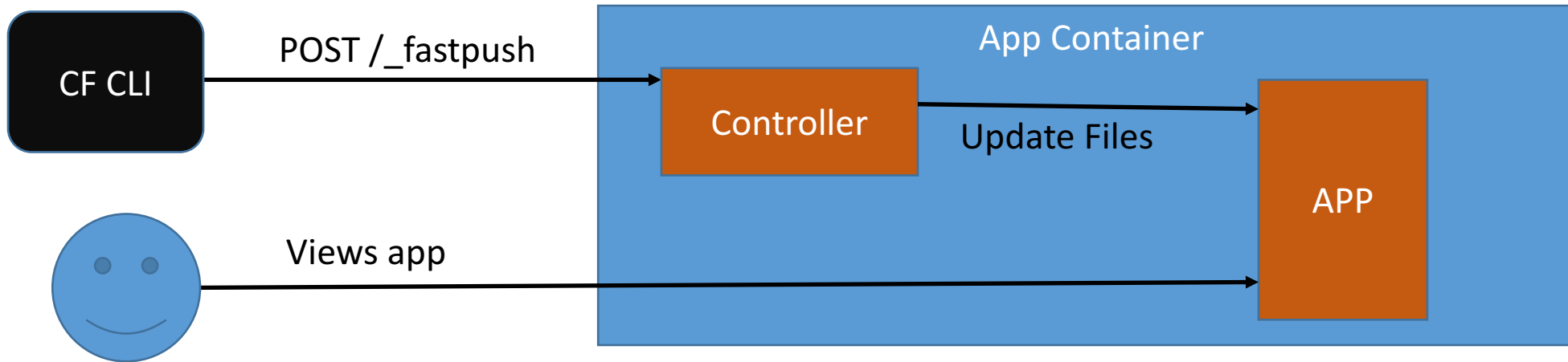
cf fast-push: 5 seconds



10x faster!



How does it work?



Live Demo



Alternatives

- Clouddrocker: <https://github.com/CloudCredo/clouddrocker>
- Bluemix Live Sync:
<https://console.bluemix.net/docs/develop/bluemixlive.html>
- cf ssh 😊



Thanks!

- Github: github.com/xiwenc/fastpush
- Twitter: @xiwenc
- We are hiring: mendix.com/careers/

