





## TRAVIS GOSSELIN

PRINCIPAL SOFTWARE ENGINEER

DEVELOPER EXPERIENCE 🚢



@TRAVISJGOSSELIN

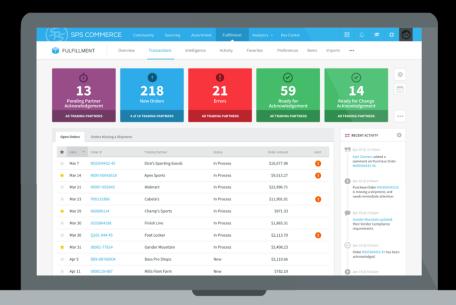


www.travisgosselin.com %

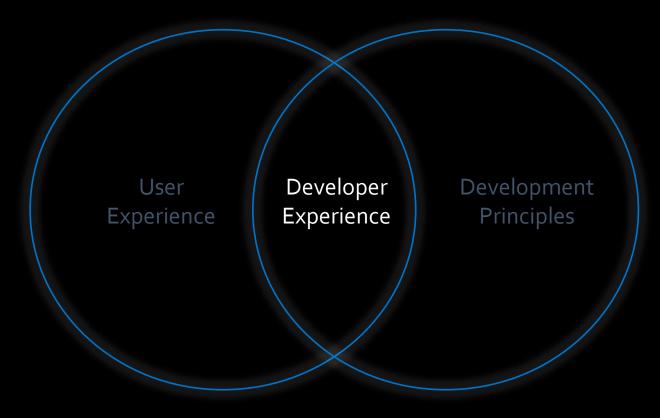




**INFINITE RETAIL POWER™** 







Developers work in rainforests, not planned gardens.

# Development Operations Cost Security Build & Deploy a New App from Scratch **API** Design Inner Source & Shared Library Development **Build & Deploy a New Feature to Production**

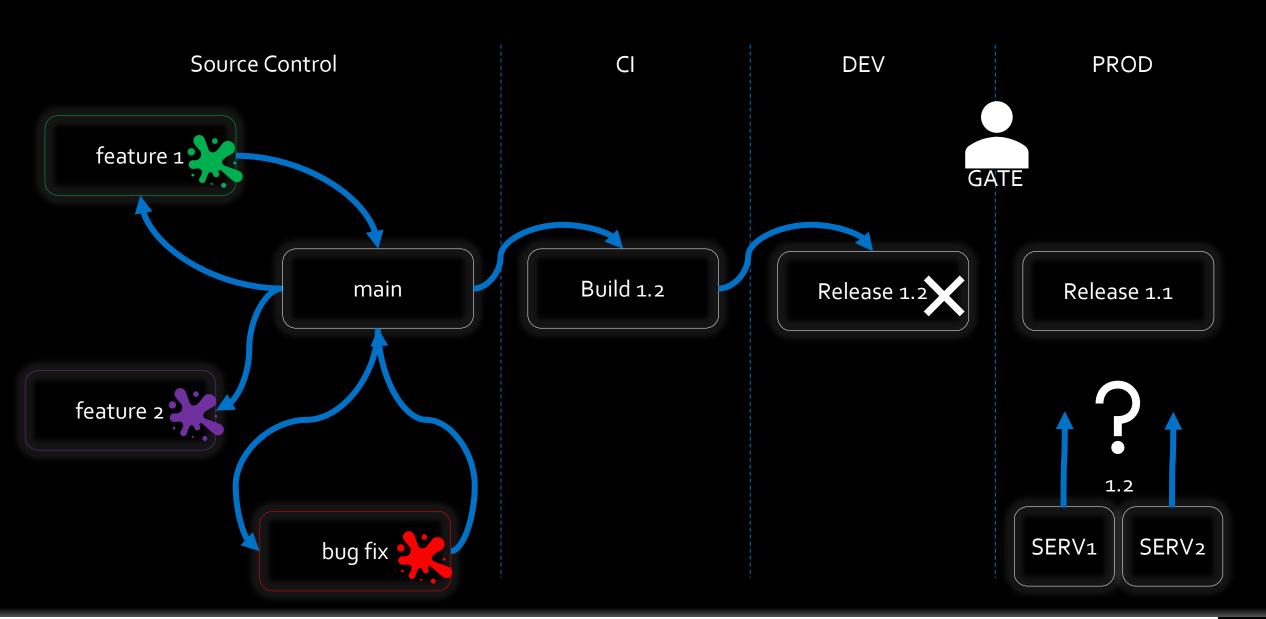
## DEVELOPER EXPERIENCE: CAPABILITIES

IDENTIFIED HORIZONTAL FAST TRACKS TO BE CURATED FOR MAXIMUM EFFICIENCY.

SPS COMMERCE

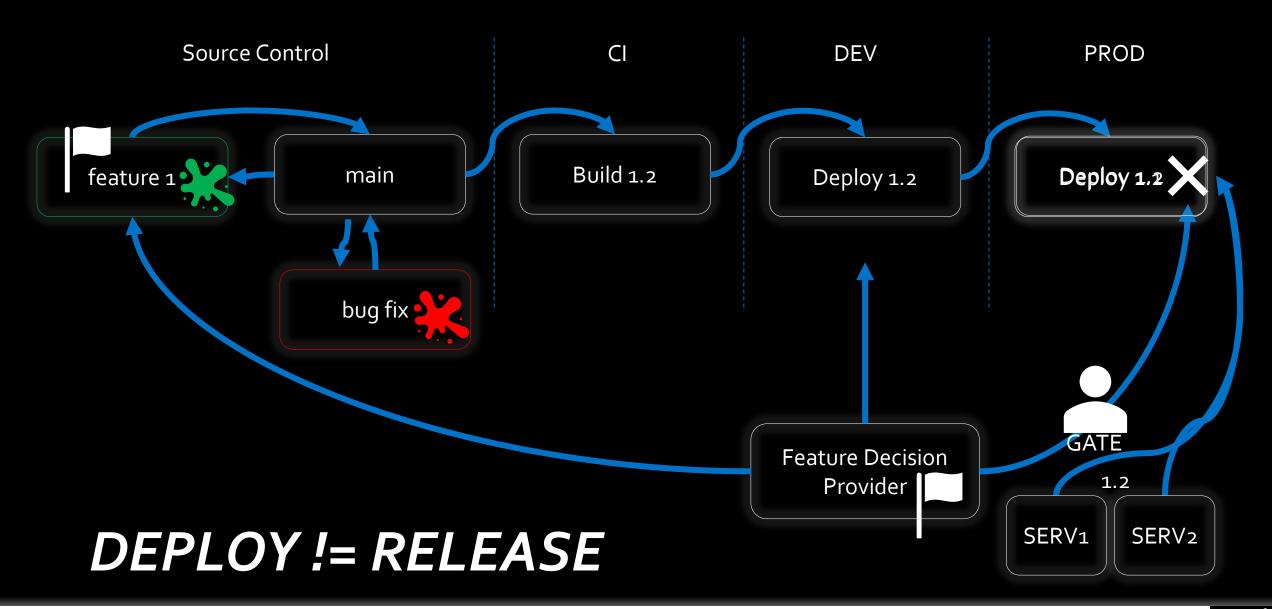
#### The Problem





#### The Solution





"...a powerful technique, allowing teams to modify system behavior without changing code"
(MartinFowler.com

## **FEATURE FLAGS**

AKA "CONFIG FLAGS", "FEATURE TOGGLES", "FLIPPERS"





Release

Operational





Experiment

Permission





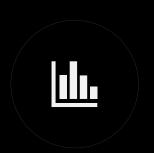












Branching Strategy

Shorter, Multiple Active Releases True CI

Continuous Integration the way it should be! Ship Faster

Confidently Deploy Rollback Features Testing in PROD

A/B Testing Canary Releases

Less Environments

Culture

Product Owners Manage Features

#### **Progressive Delivery**



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Progressive Delivery is a modern software development lifecycle that builds upon the core tenets of Continuous Integration and Continuous Delivery (CI/CD). Organizations that employ Progressive Delivery ship code faster, reduce risk, and continuously improve the customer experience.

Launchdarkly.com

Progressive Delivery **Continuous Delivery** 

**Continuous Integration** 













Accelerate

State of

DevOps 2022



**Performance Metrics** 

**Higher Performers** 



**Deployment Frequency** 

On-demand (whenever we want)



**Lead Time for Changes** 

One day



Mean Time to Restore

Less than one day

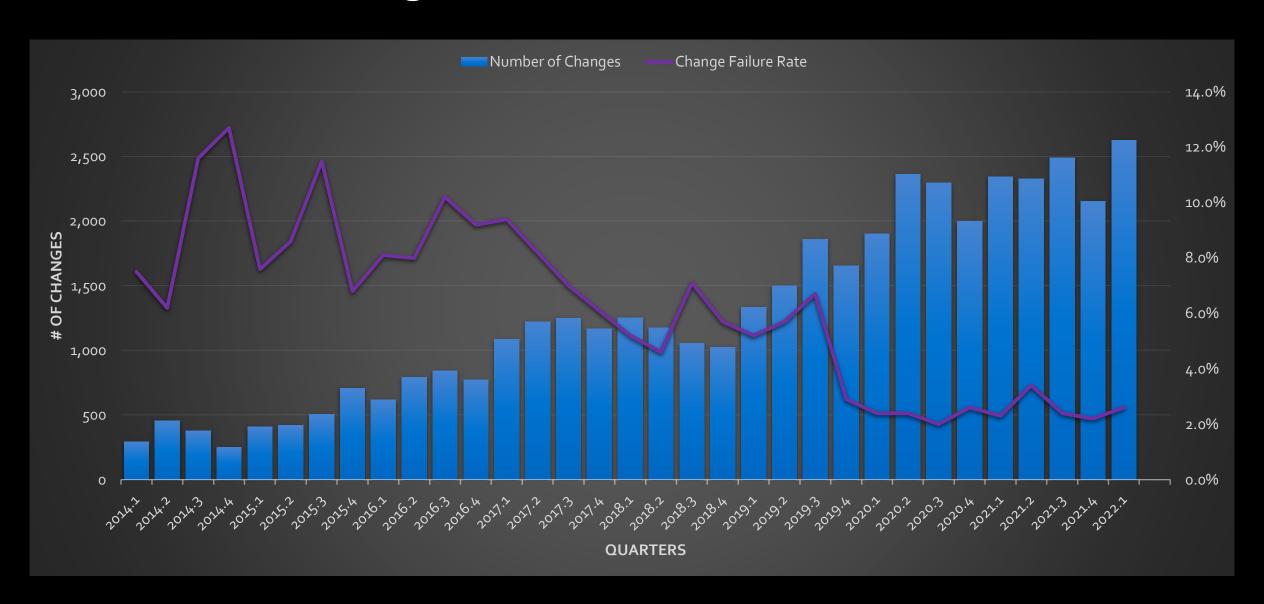


**Change Failure Rate** 

Less than 15%



#### SPS Commerce Change Performance



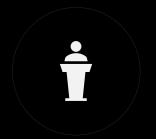


#### Simple Feature Flag

```
public void SetupUser(UserContext user)
   CreateUser(user);
   if (IsSendgridEmailEnabled(user)) ← Feature Flag
                                *NEW* Code
     SendSendgridEmail(user);
   else
     public bool IsSendgridEmailEnabled(user)
                                         return service
                                            .UseFeature(user, "Sendgrid");
```







Shifting Left

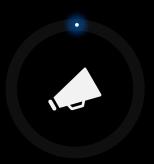
Maintainability



YOUR FEATURE FLAG HONEYMOON IS OVER!



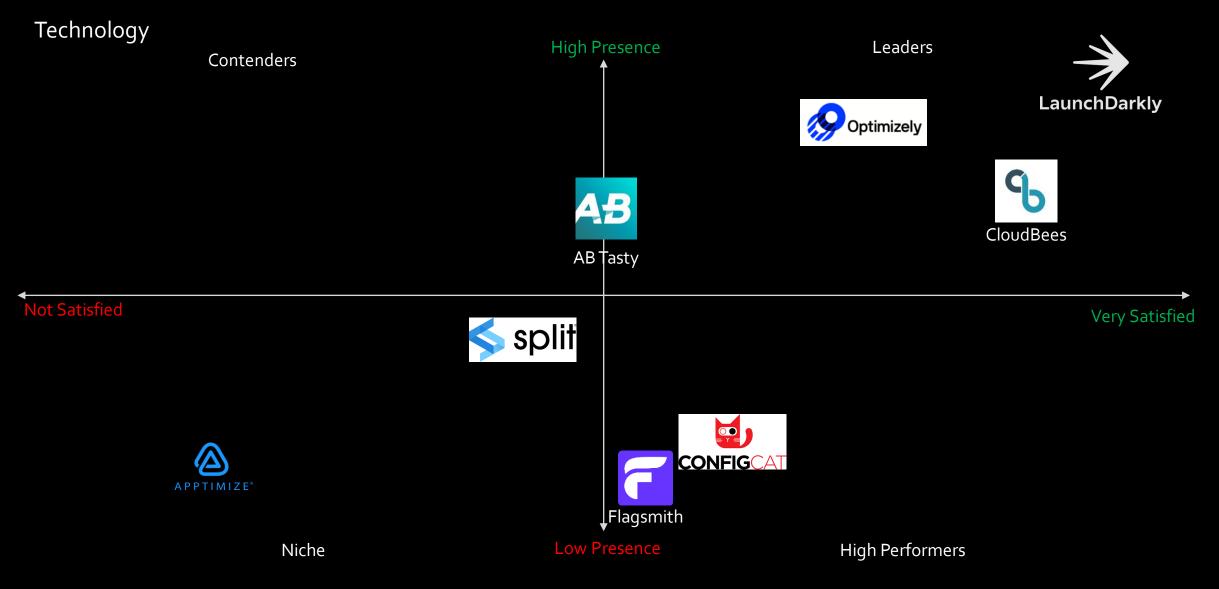
Changes to Existing Code



Feature Decision Provider

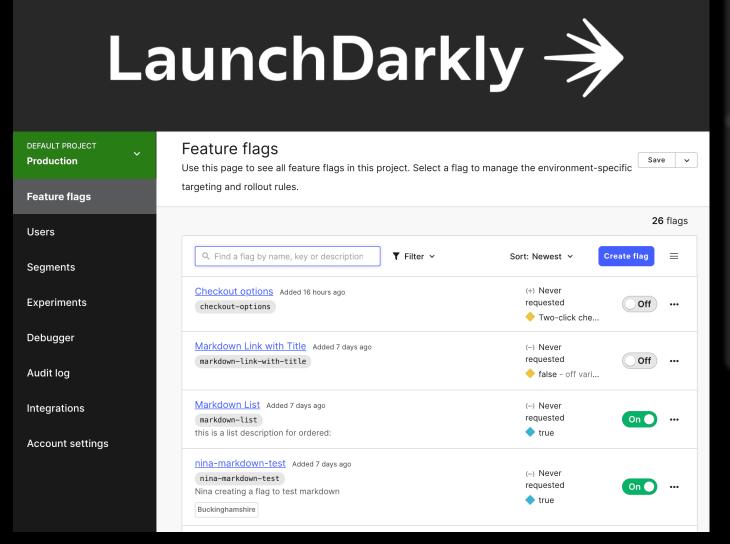
#### **Feature Decision Providers**







#### LaunchDarkly & SPS Commerce





launchdarkly.com/blog/customers-fullstory-and-sps-commerce/

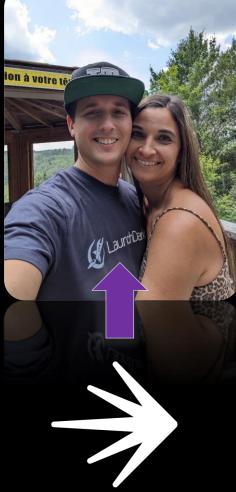












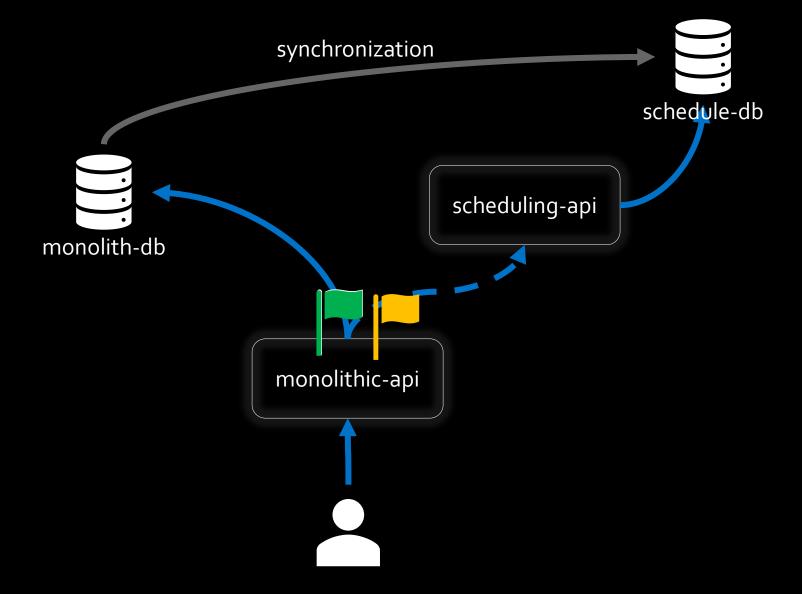






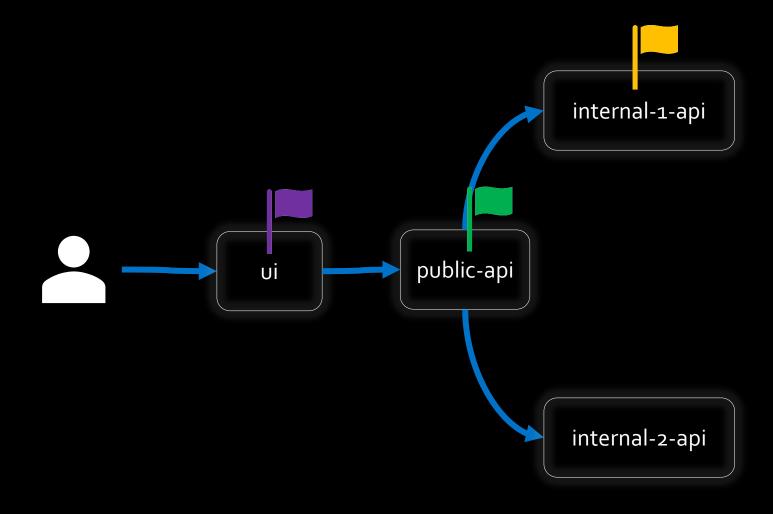


## Migrations





### Coordination







```
User Identifier (UserID, Username, etc)

User Details (First Name, Last Name, Email)

Role Group Organization Internal / Employee Beta Customer
```

```
const user = {
   userId: '123456'
   name: 'Travis Gosselin'
};
const client = featureProvider.initialize(user);
```



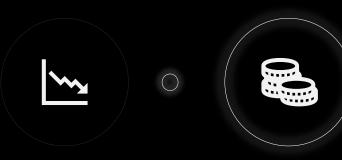
```
const user = {
   userId: '123456'
   firstName: 'Travis',
   lastName: 'Gosselin'
};
const client = featureProvider.initialize(user);
```



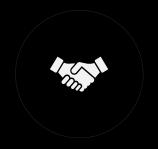
Log Level

Verbosity





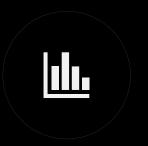




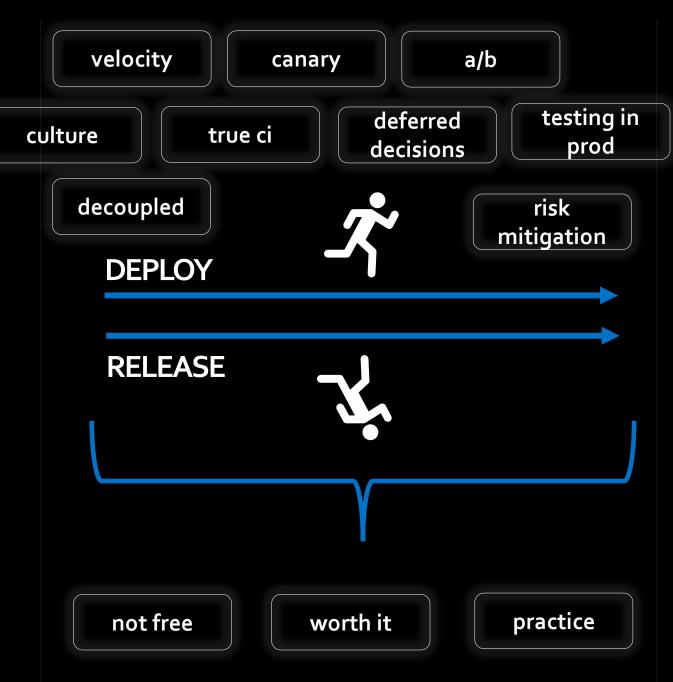
Kill Switches



Sunset Features



Timed Features





### **UNLEASHING DEPLOY VELOCITY WITH FEATURE FLAGS**



#### TRAVISGOSSELIN **\***

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