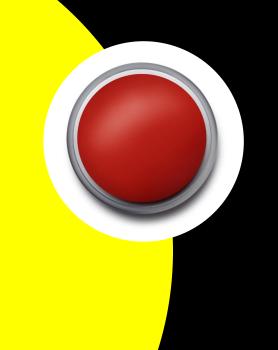
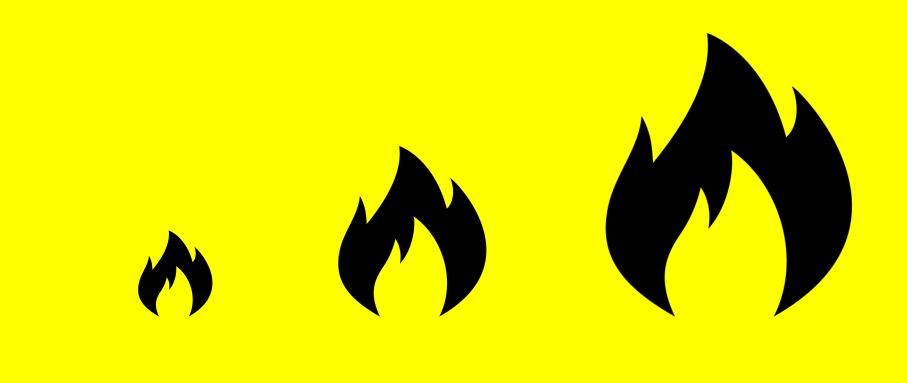
Knobs, buttons & switches

Operating your application at scale





Application Resilience





gettyimages®

- 1. Maintenance Mode
- 2. Read-Only Mode
- 3. Feature Flags
- 4. Rate Limits
- 5. Non-critical work
- 6. New code paths
- 7. Circuit Breakers



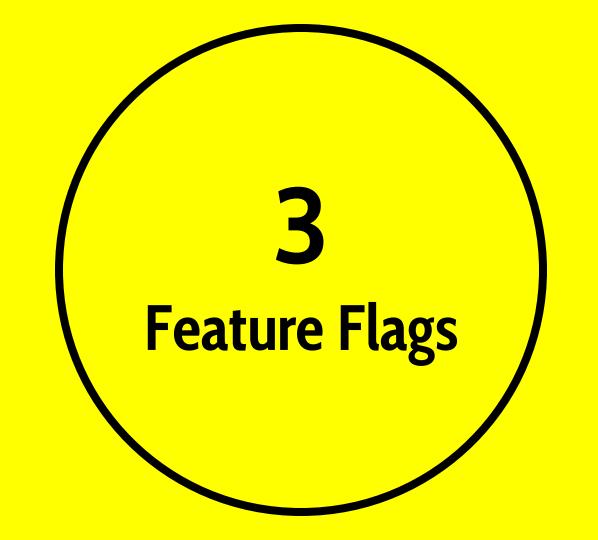
Environment Variable

MAINTENANCE_MODE=ON



Environment Variable

READONLY_MODE=ON

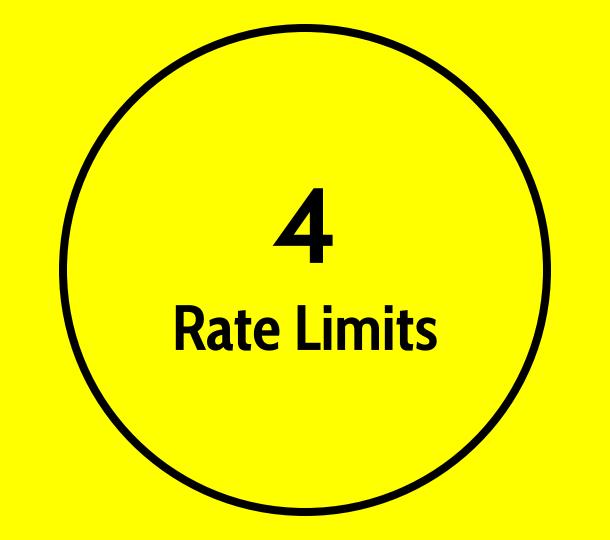


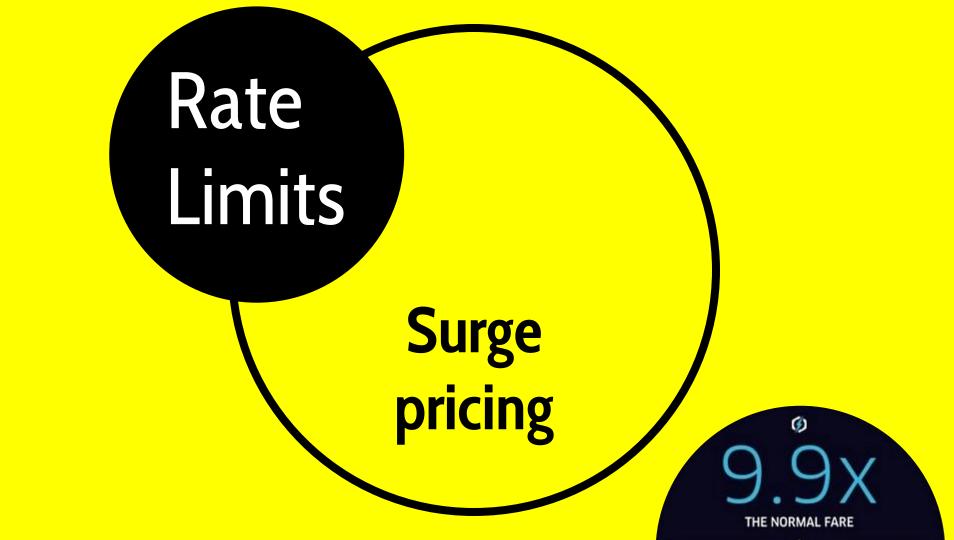
Feature Flags Granularity

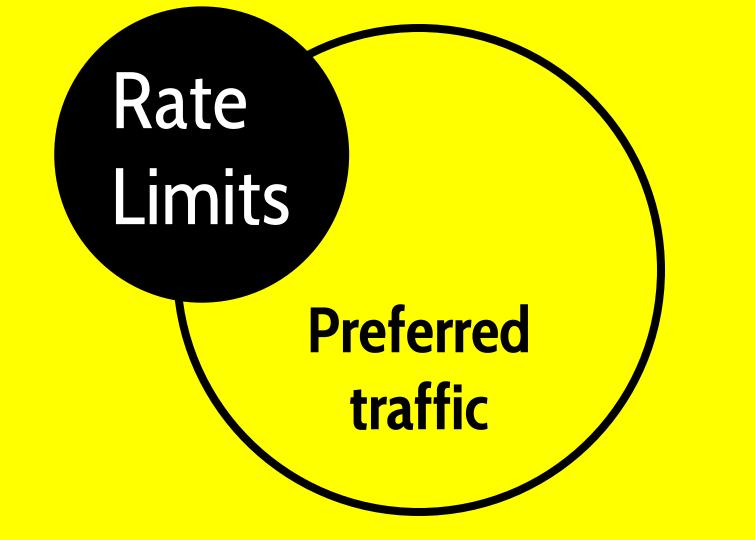
- User
- Global
- Group

ApplicationSetting.get('billing-enabled')

ApplicationSetting.get('billing-enabled-eu')







```
ApplicationSetting.set('default-rate') = 100
```

```
> customer.rate_limit
=> 100
```

> customer.rate_limit_modifier = 2.0

- customer.rate_limit => 200

ApplicationSetting.set('default-rate') = 50

```
> customer.rate_limit
=> 100
```

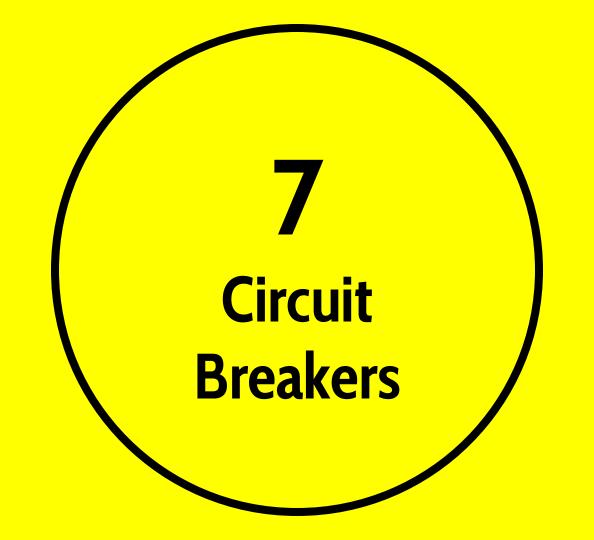


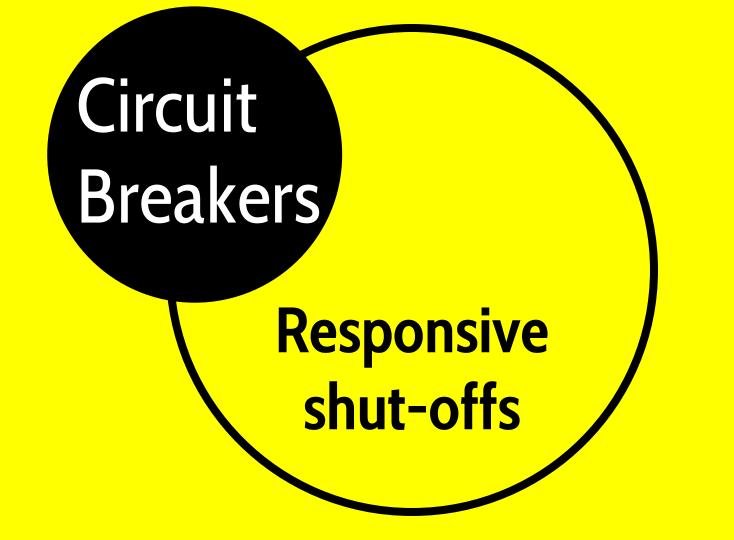
```
> ReportSetting.get("monthly_user_report")
=> false
```

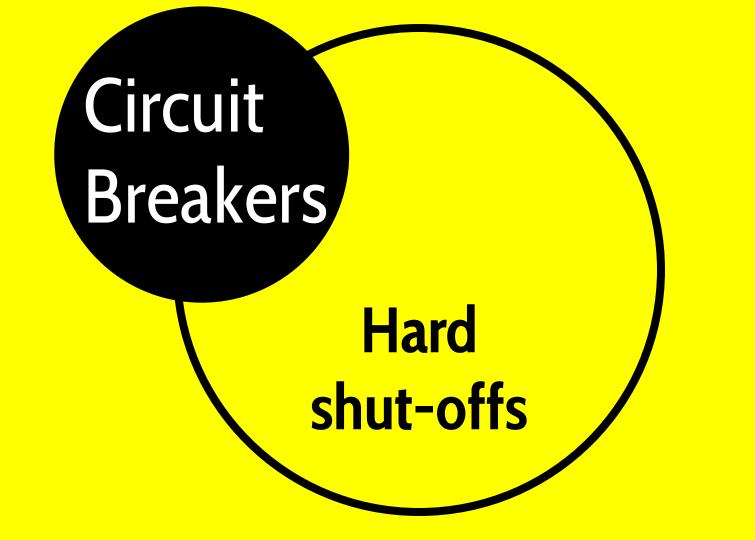


Scientist!

https://github.com/github/scientist





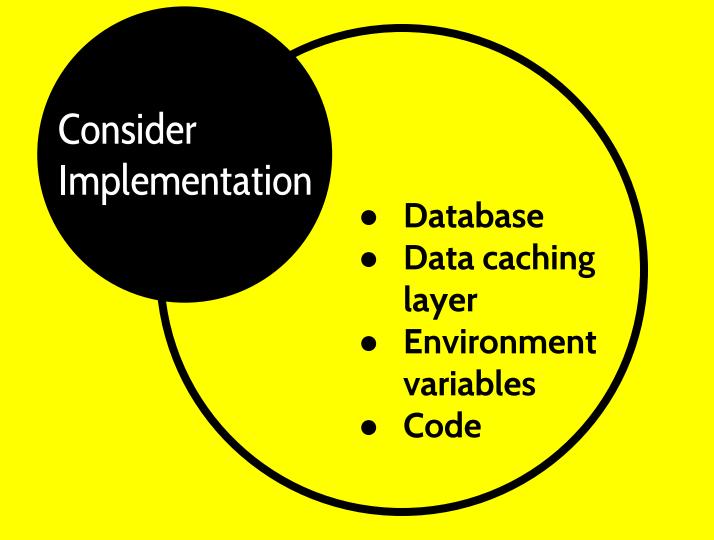


Caching layer or Datastore

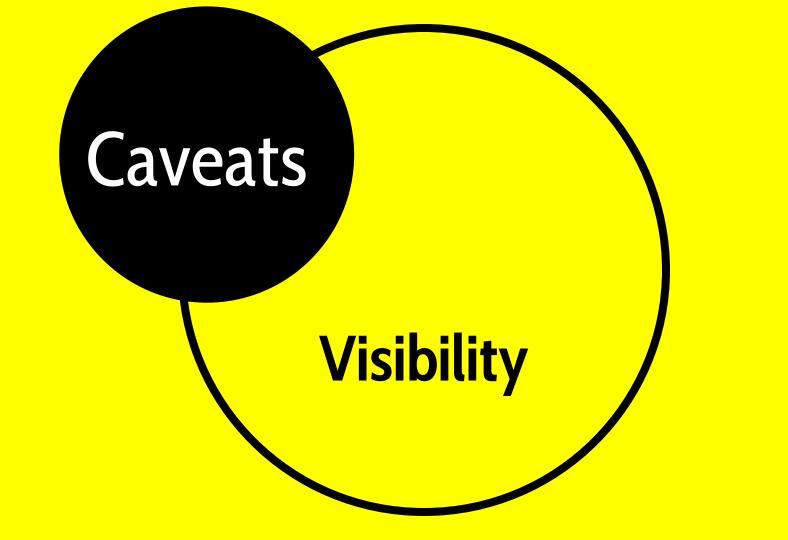
```
> BillingServiceClient.circuit.close
=>
```

> BillingServiceClient.circuit.open
=>

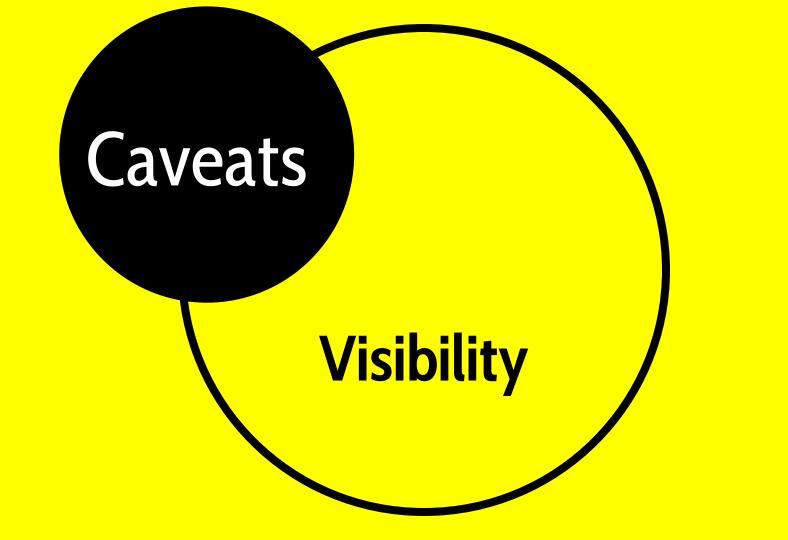
Consider implementation

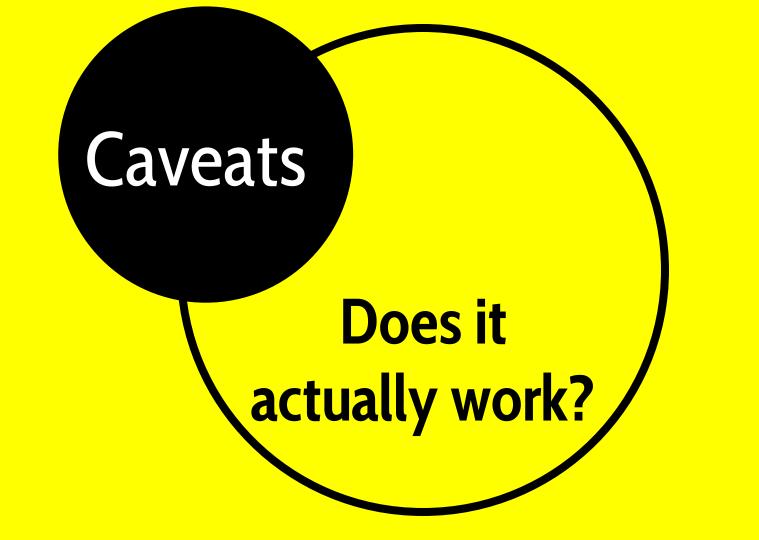


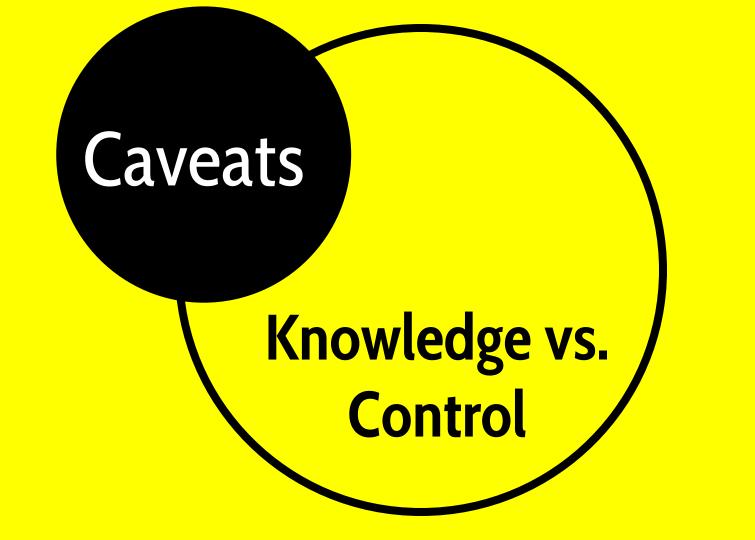
Caveats













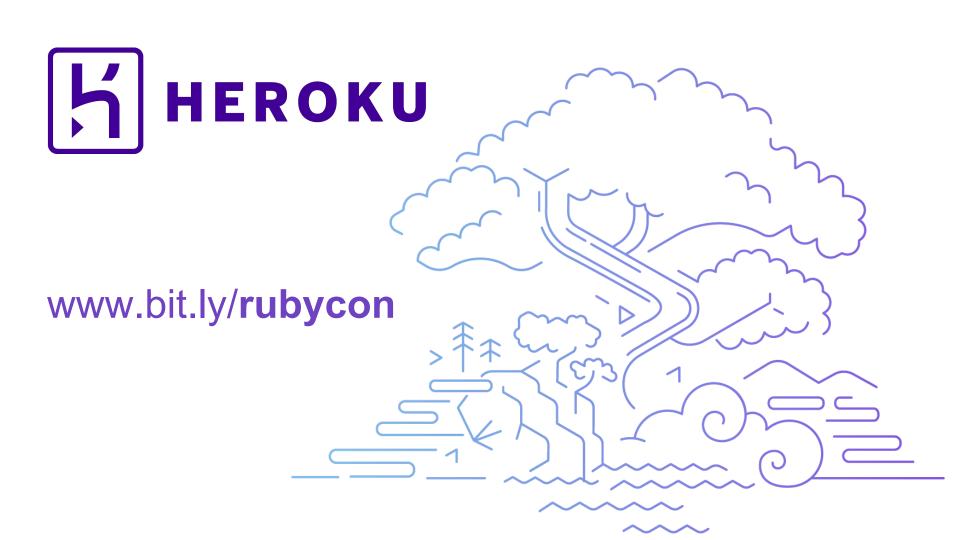
I'd still take this deal any day

Thank you!



Amy Unger

@cdwort



Thank you!



Amy Unger

@cdwort