

Dashboard as code

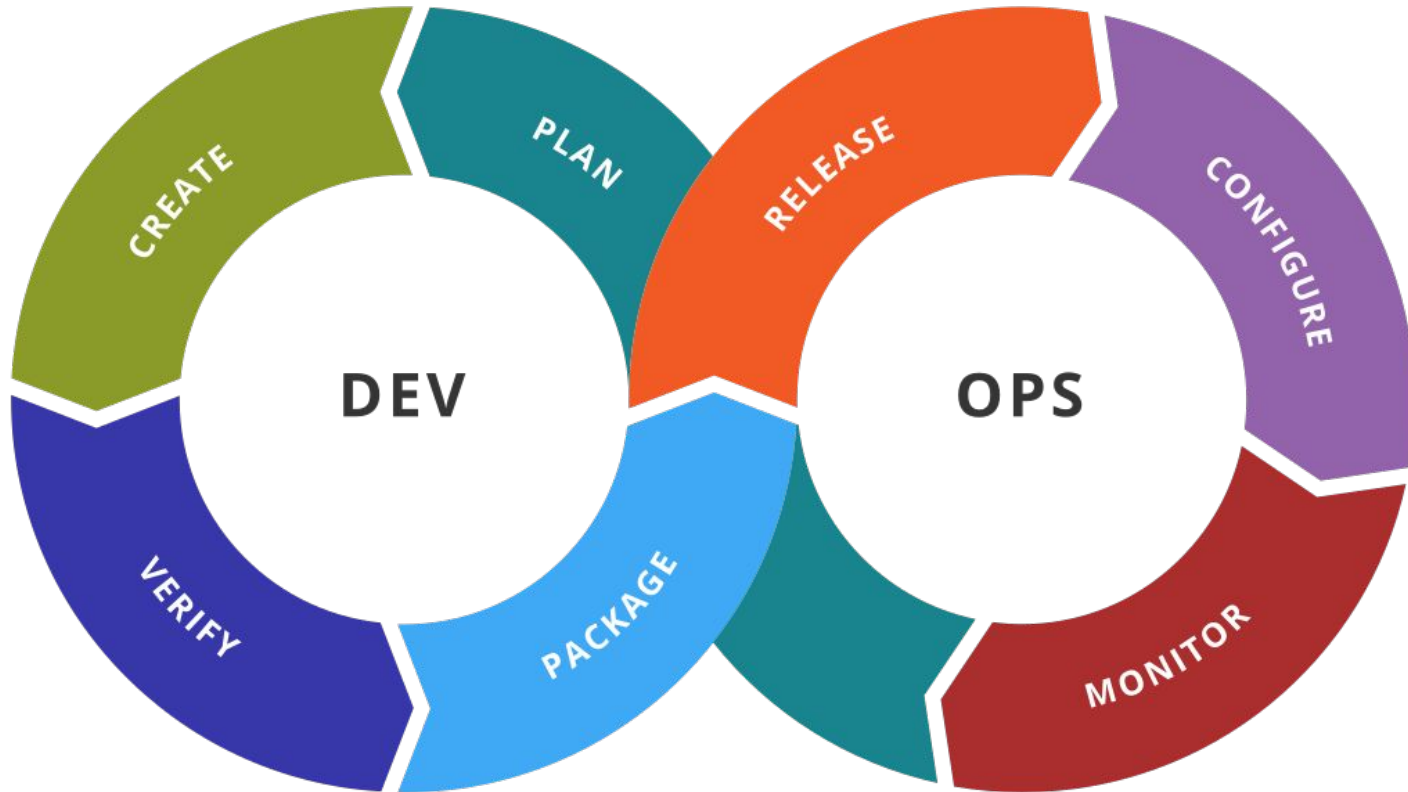
Jsonnet, Grafonnet-lib to create version control dashboards

Agenda

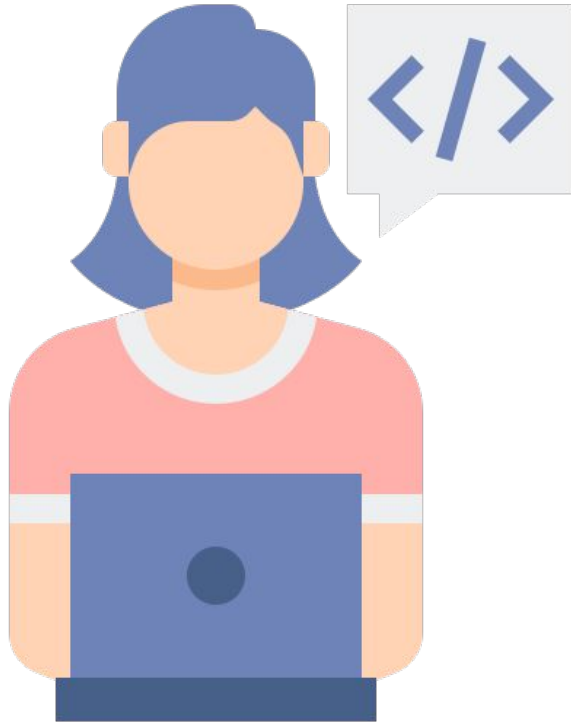
- Background Diversity
- Configuration Languages
- Dashboard as Code
- Ideal Workflow

Background Diversity

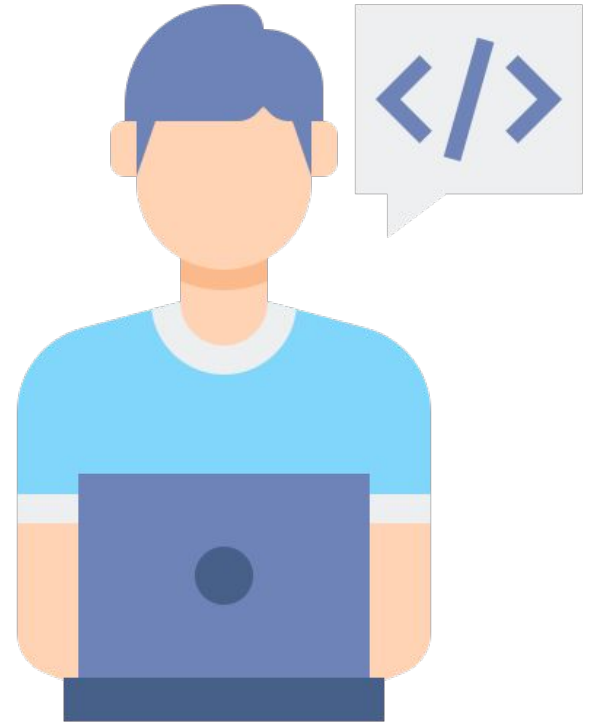
Background Diversity - Debunking the myth



Background Diversity - Ideal Representation

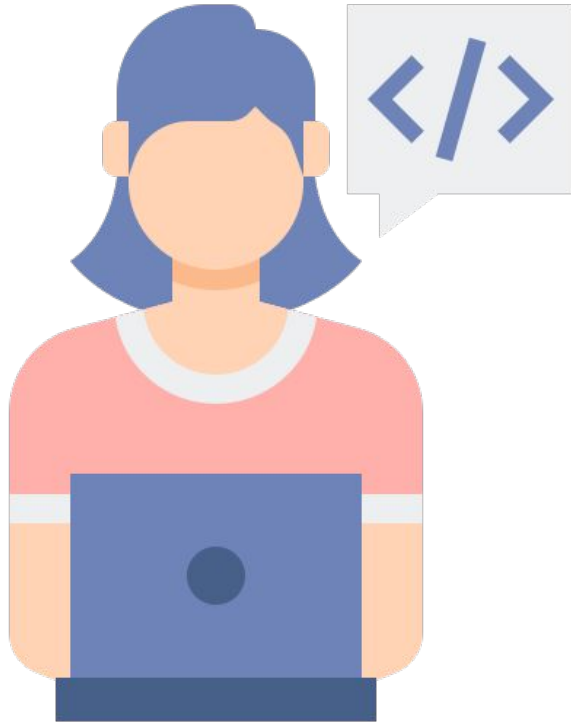


Devops Engineer

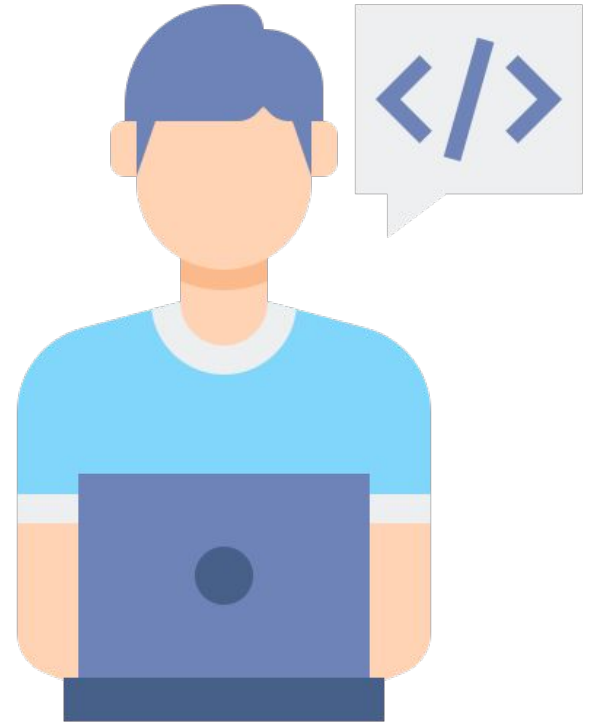


Fullstack Engineer

Background Diversity - Reality Check



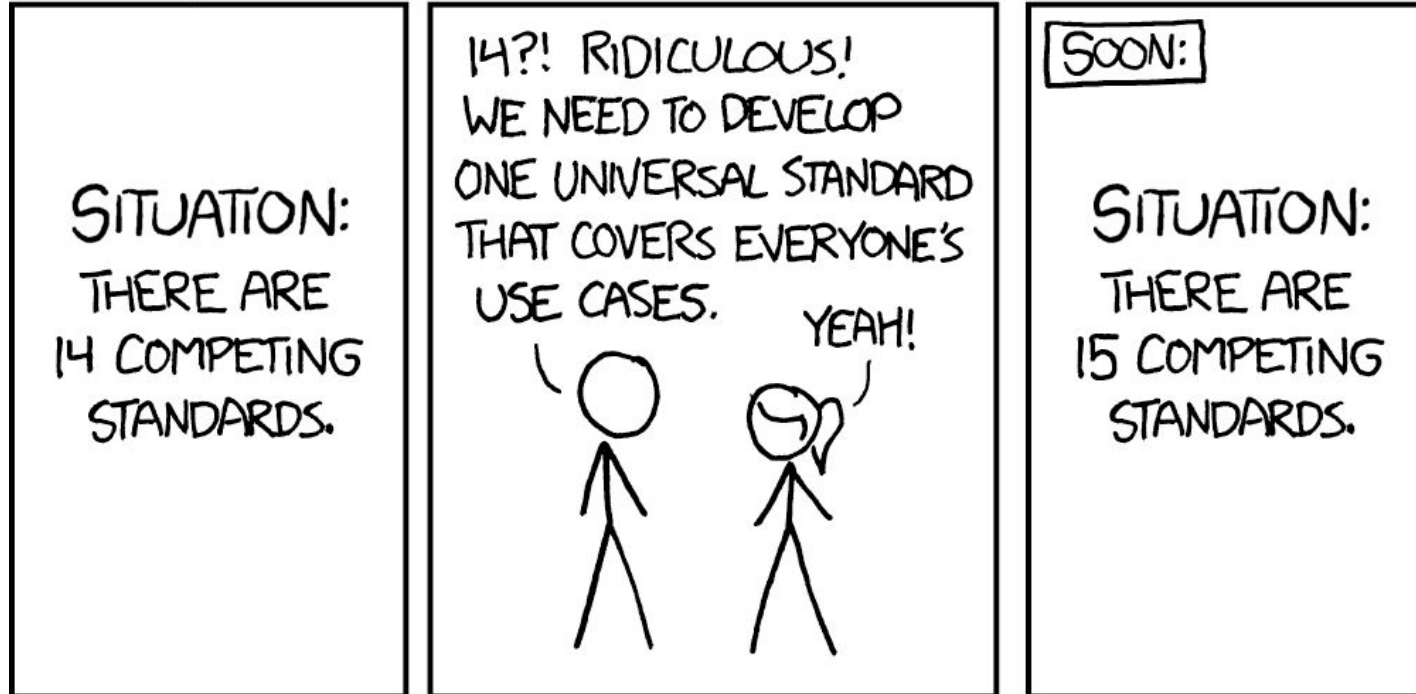
Network Engineer - Coding From time to time



Front End developer - Writes a pipeline every 10yrs

Background Check - Raising the Issue

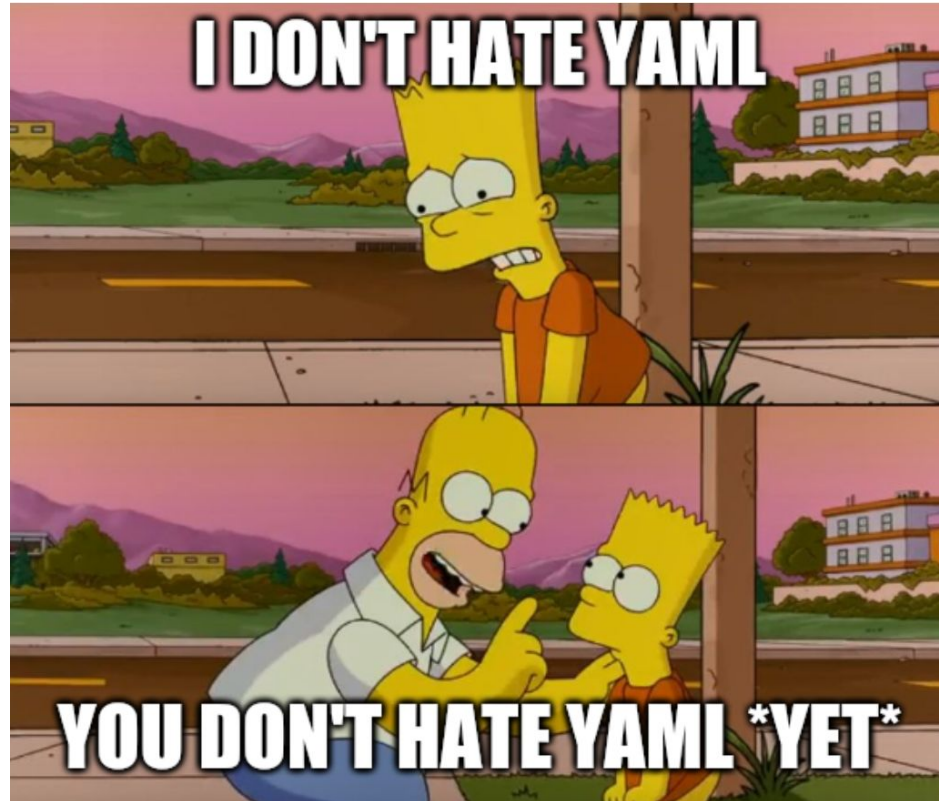
HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)



There is a need for different dashboards for different people

Configuration Languages

Configuration Languages - Yaml Hell



Configuration Languages - As a Pokemon



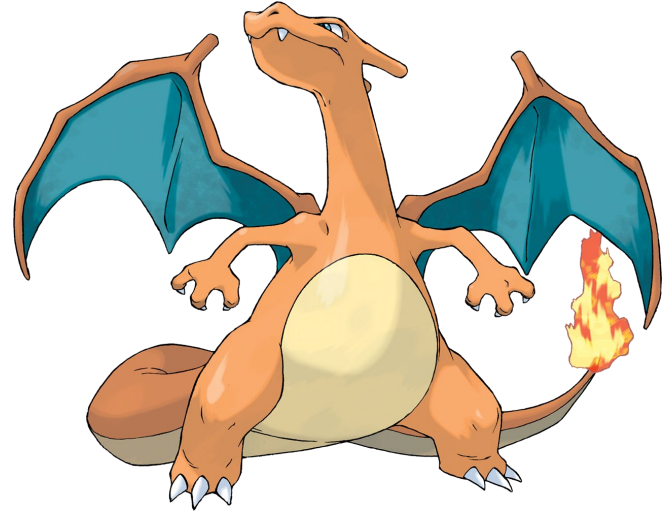
Configuration Files

- Yaml
- Json
- Hcl



Configuration Languages:

- Dhall
- Jsonnet
- CUE
- Go Template



Programming Languages

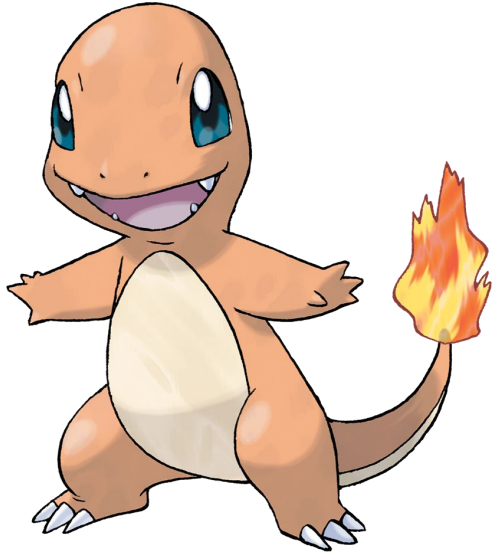
Configuration Languages - Jsonnet

Language Specification: [Jsonnet](#)

Imports: [kubernetes-mixins](#)

Dashboard as Code - More Code then ever

Dashboard as code - As a Pokemon



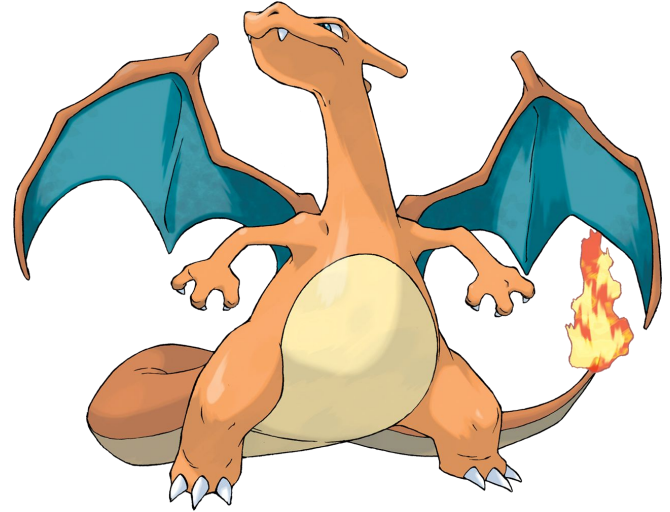
Configuration Files

- [Json](#)



Configuration Languages:

- [Jsonnet](#)



Programming Languages:

[python](#)

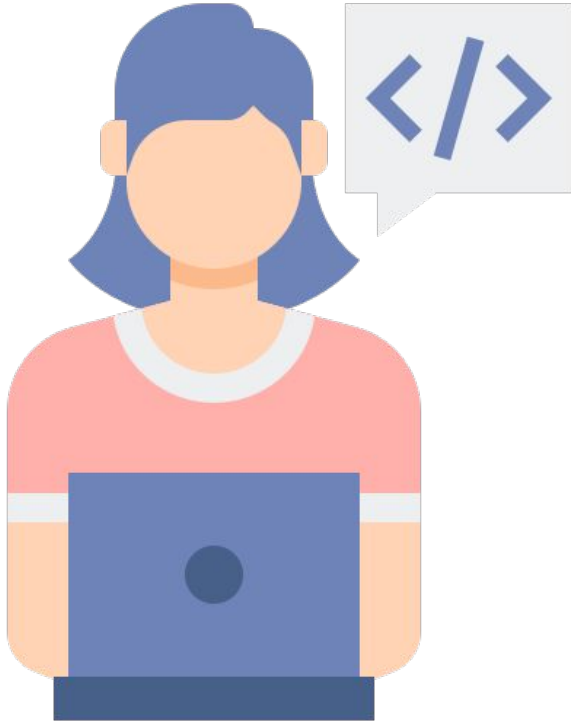
Ideal Workflow - Proposed Solution

- Think Product:
 - Dashboards are product oriented
 - Dashboards are a view of the status of the product
- Abuse Grafana:
 - Use Gitlab/Jenkins exporter to view changes
 - Use Loki Promtail to gather; query the logs
 - Use Kubernetes to see the available resources: networking, cpu, Memory
 - Use Istio To see the Application networking Metrics
 - Use Tags to have one dashboard per product, per region, for searchability
 - Have a Folder to store the person dashboard

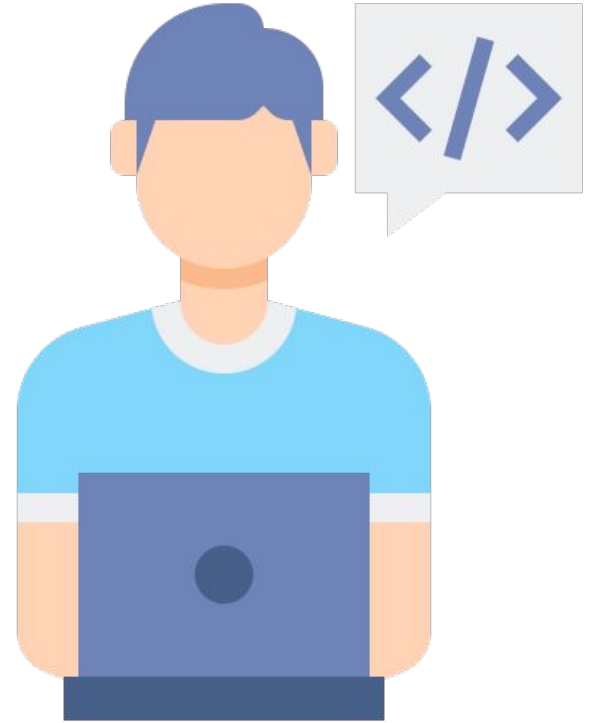
Ideal Workflow - Debunking the myth



Ideal Workflow - My SRE Job



SRE - Tool Vendor



Front End developer - Tool Consumer