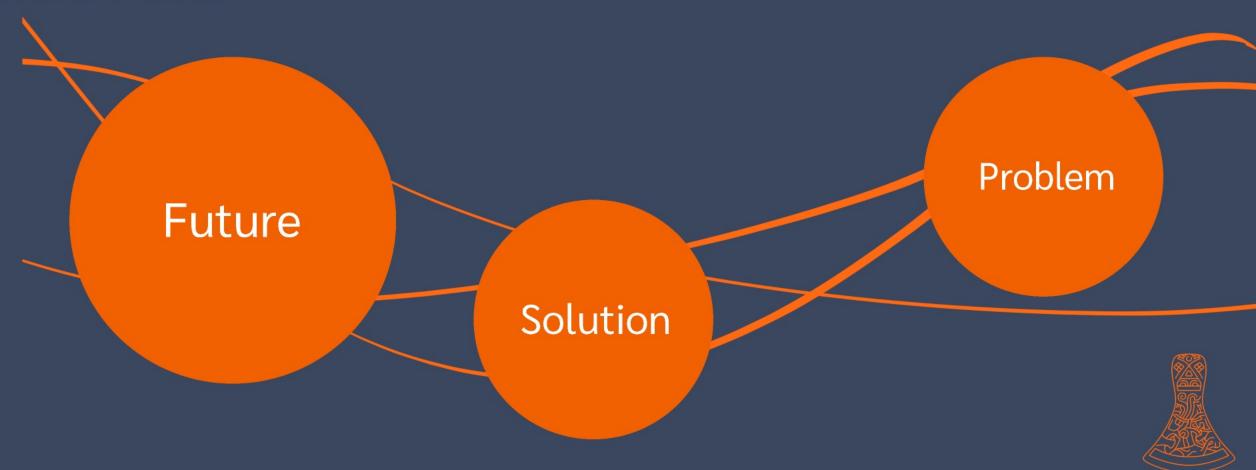
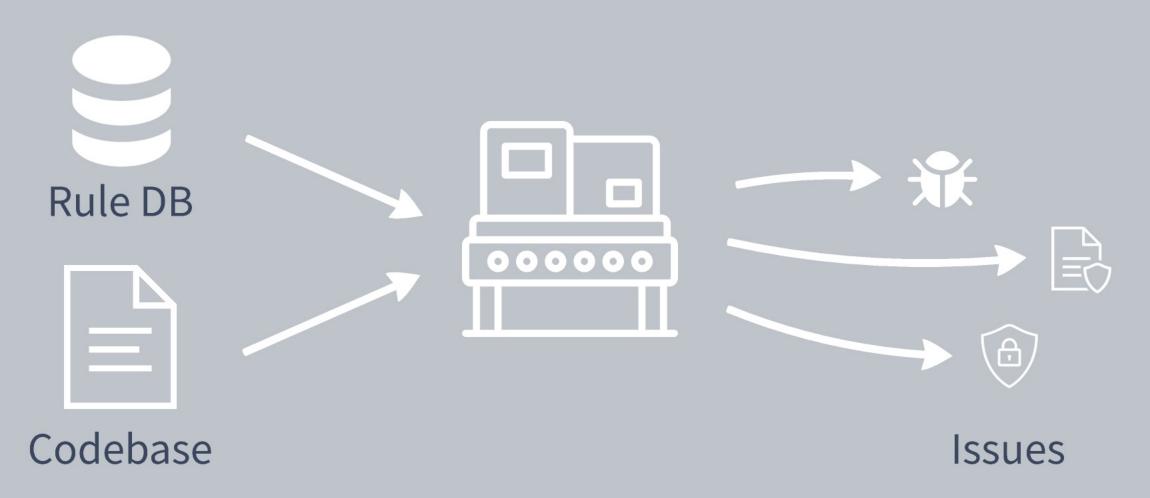
Static analysis of APL in APL







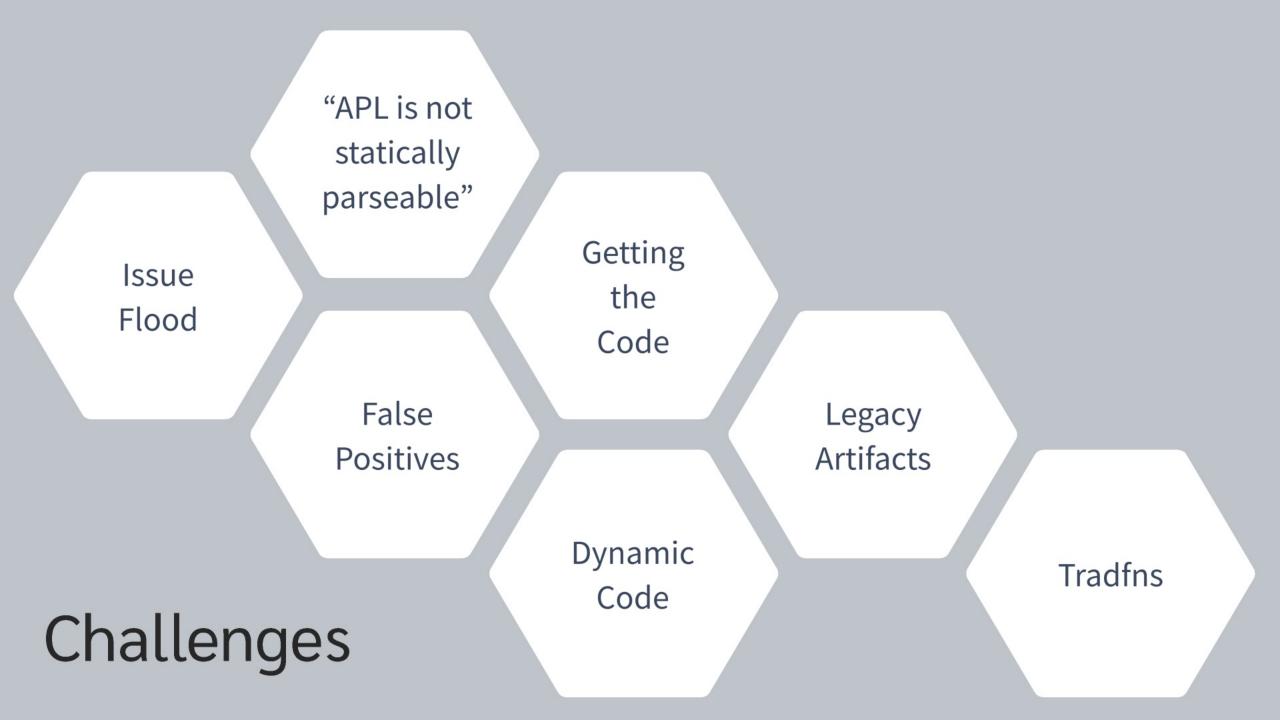
Challenges







Challenges

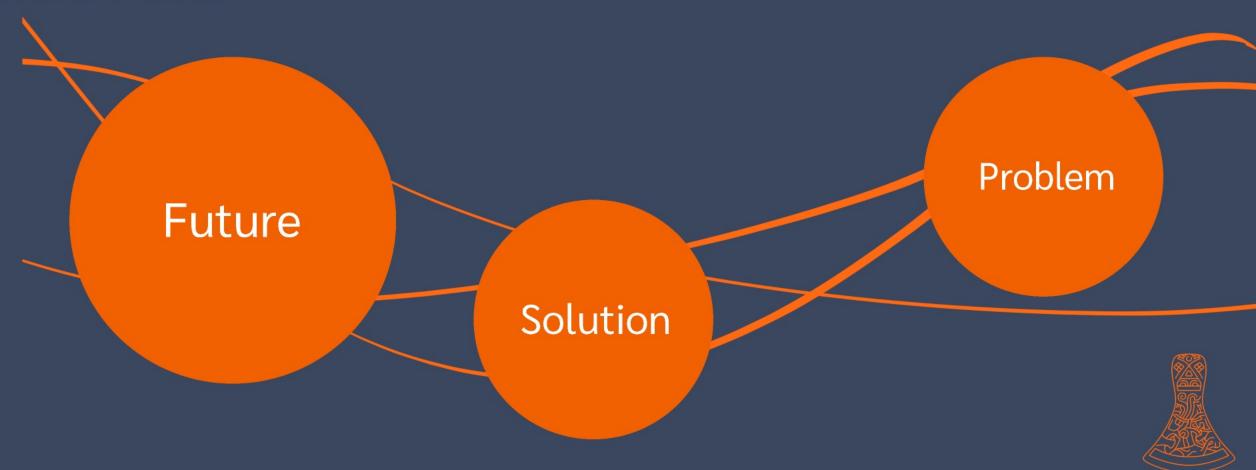


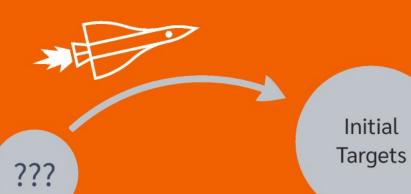




Challenges

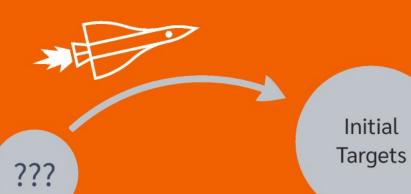
Static analysis of APL in APL





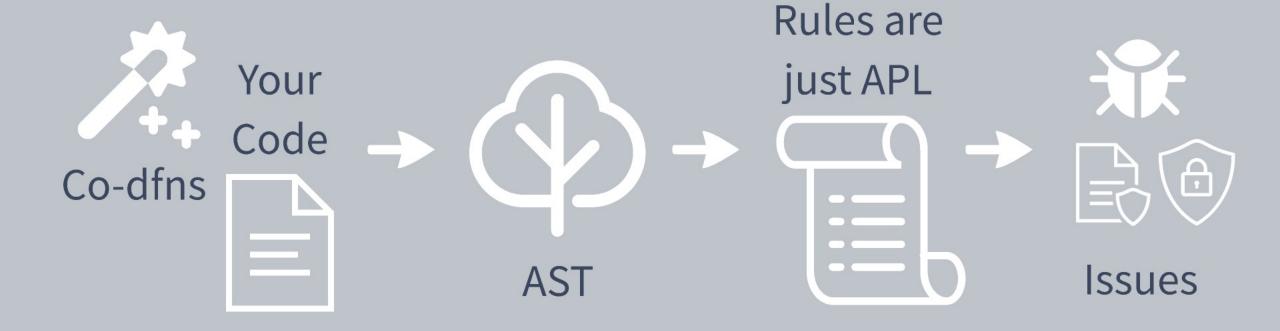
Architecture

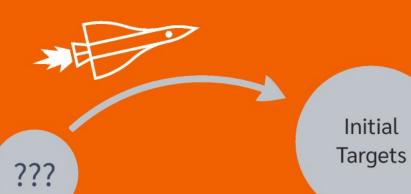




Architecture

Architecture





Architecture

Look and Feel

```
(t=Z)^k=<sup>-</sup>2

(lx∈0 1)<(t[p]=B)^(k[p]=1)^t[p[p[p]]=T

i←<u>i</u>(≠p)^(t[p]=B)^(k[p]=1)^n∈-symi'Password'

(t=A)^(k=1)^(≠p)<p=p[i]
```

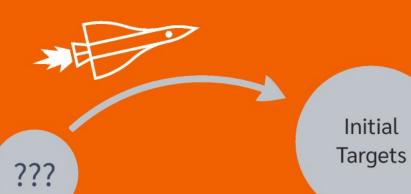
```
A Syntax error
```

- A New global variable crated in tradfn
- A Assignment to variable "Password"
- A with a literal

DSL?

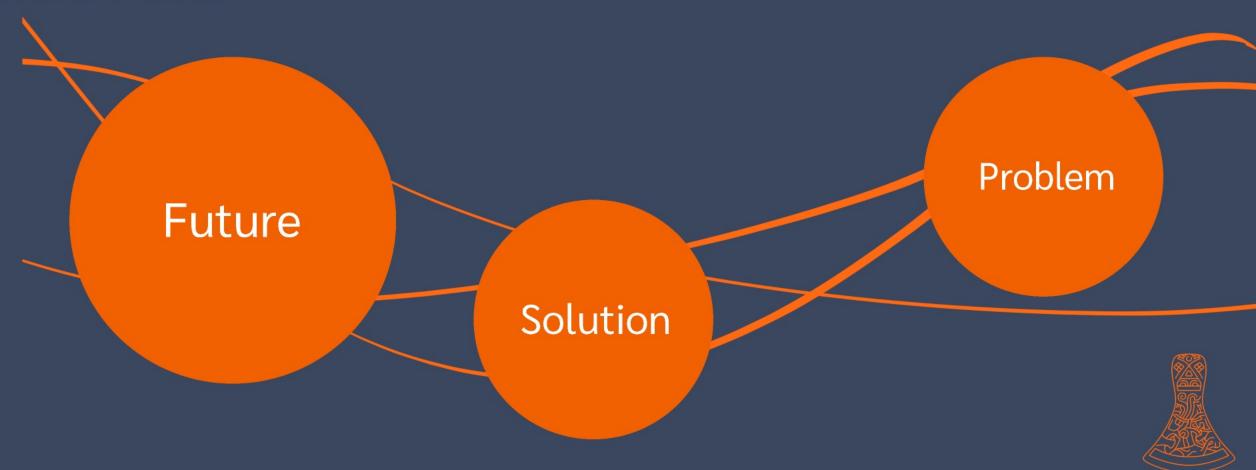
Precision vs. Fragility?

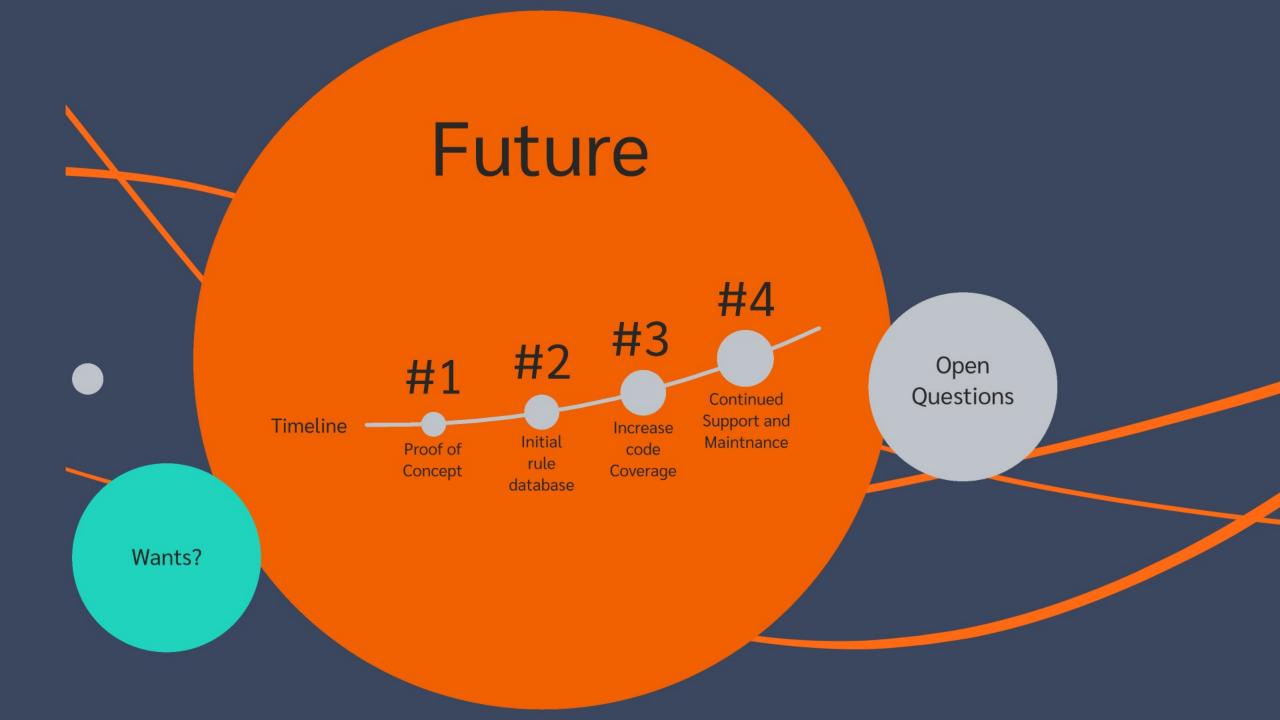
Rule writing helpers?



Architecture

Static analysis of APL in APL





Open Questions



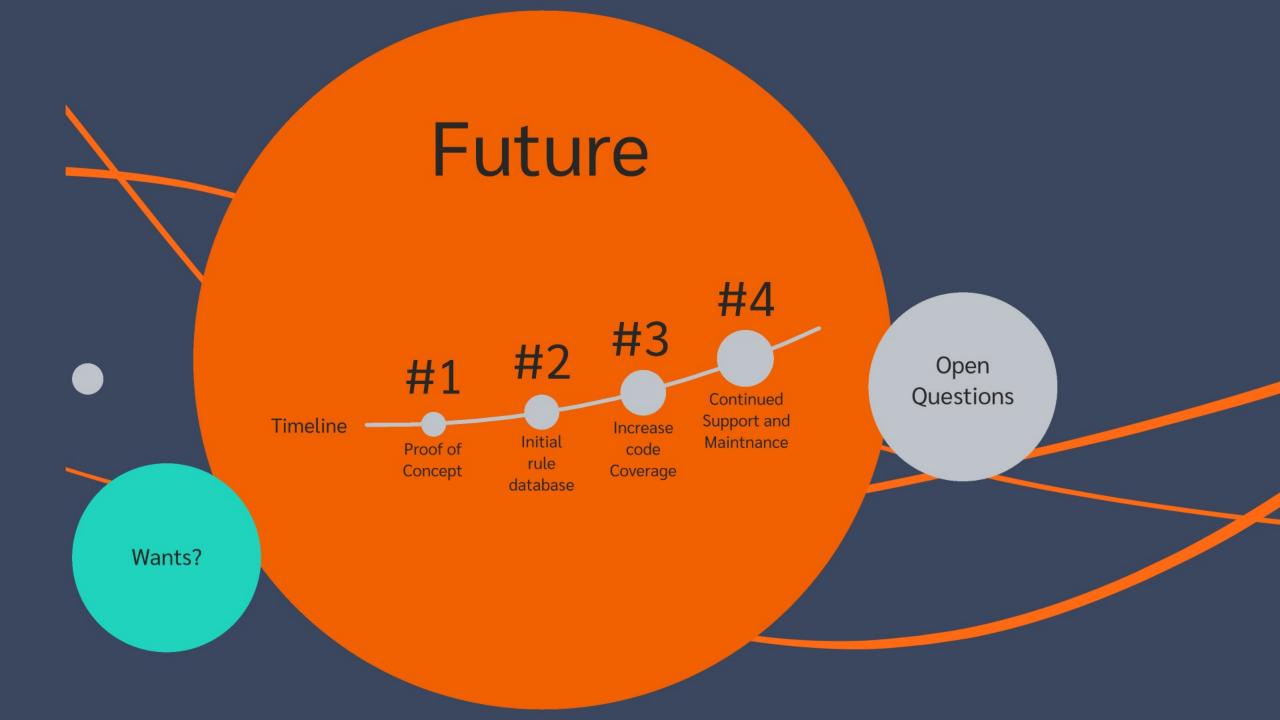
Dynamic code handling strategies



How to ensure useful and easy-to-write rules



Realistic constrainsts imposed by parser

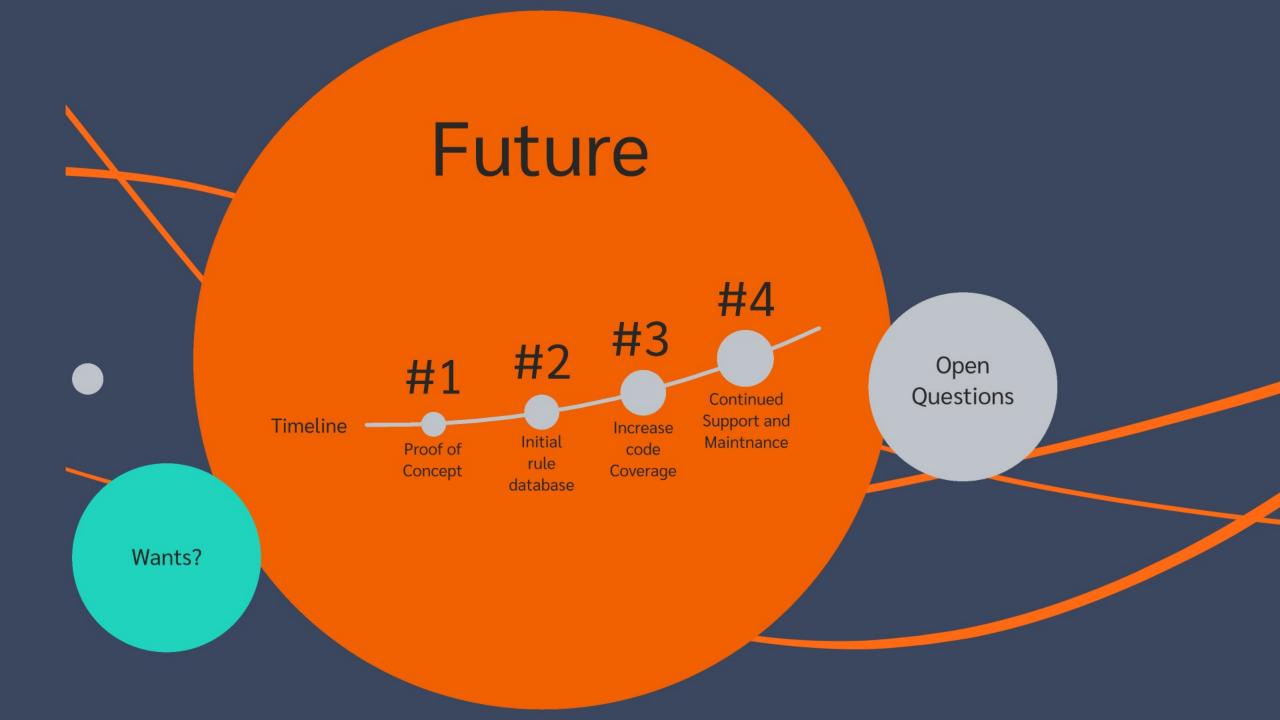


Wants?

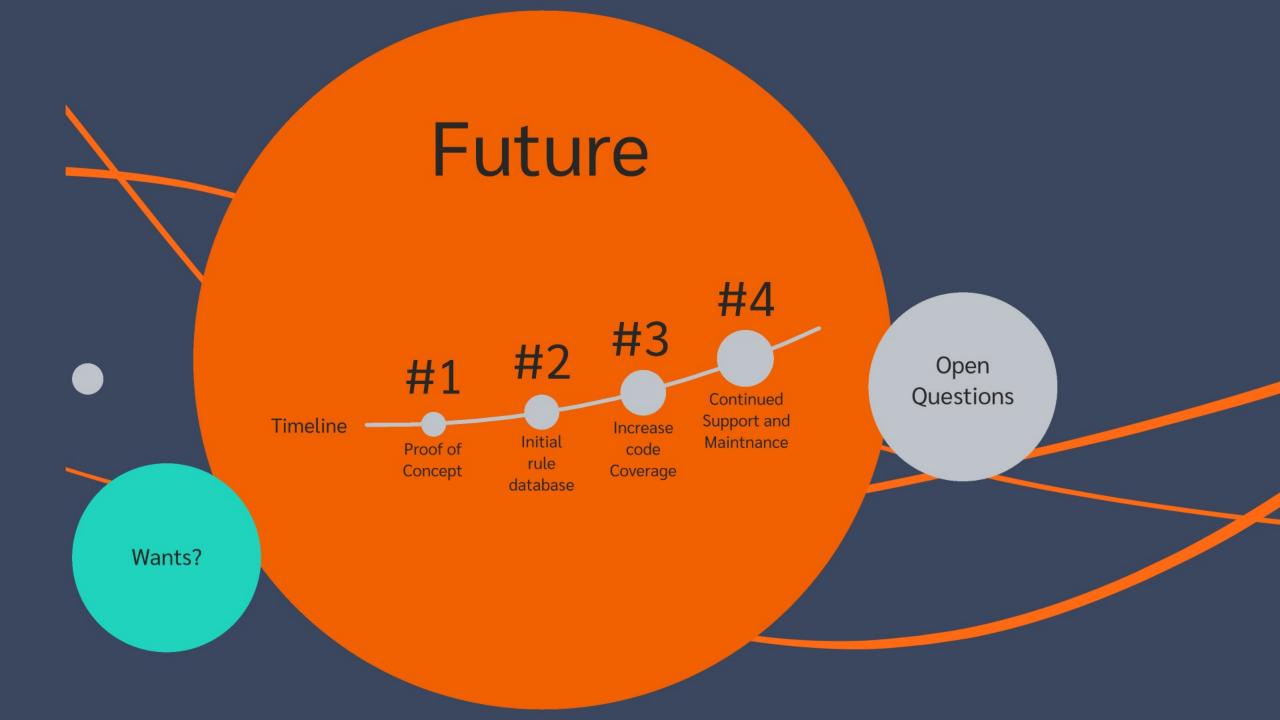
Code Linter Tracking Variables

Security Guratees Migration Assistance Control Semi-globals

Enforce Conventions



Thank you



Static analysis of APL in APL

