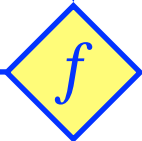


$$\mathcal{P}(\mathbb{X}, \mathbb{W})$$

$$\mathbf{P}_{\text{SP}}(\mathbb{X}, \mathbb{W})$$
 $\alpha_1$ 

 $\mathbb{X}, \alpha_1, \tau$ 
 $\rho$ 

 $\alpha_2$ 

$$\pi := (\alpha_1, \alpha_2, \tau)$$
 $\pi$ 

$$\mathcal{V}(\mathbb{X}, \pi)$$

- parse  $\pi$  as  $(\alpha_1, \alpha_2, \tau)$
- derive SP randomness

 $\mathbb{X}, \alpha_1, \tau$ 
 $f$ 
 $\rho$ 

- check SP decision

$$\mathbf{V}_{\text{SP}}(\mathbb{X}, \alpha_1, \rho, \alpha_2)$$