

$$\frac{\text{Fr}(\mathbf{a}) \quad \text{Fr}(\mathbf{k})}{\text{St}(\mathbf{a}, \mathbf{k}) \quad \text{Out}(\text{enc}(\mathbf{a}, \mathbf{k})) \quad \text{Key}(\mathbf{k})}$$



$$\frac{\text{St}(\mathbf{a}, \mathbf{k}) \quad \text{In}(\langle \mathbf{a}, \mathbf{a} \rangle)}{\text{Fin}(\mathbf{a}, \mathbf{k})}$$