Pointing and Cayley's theorem

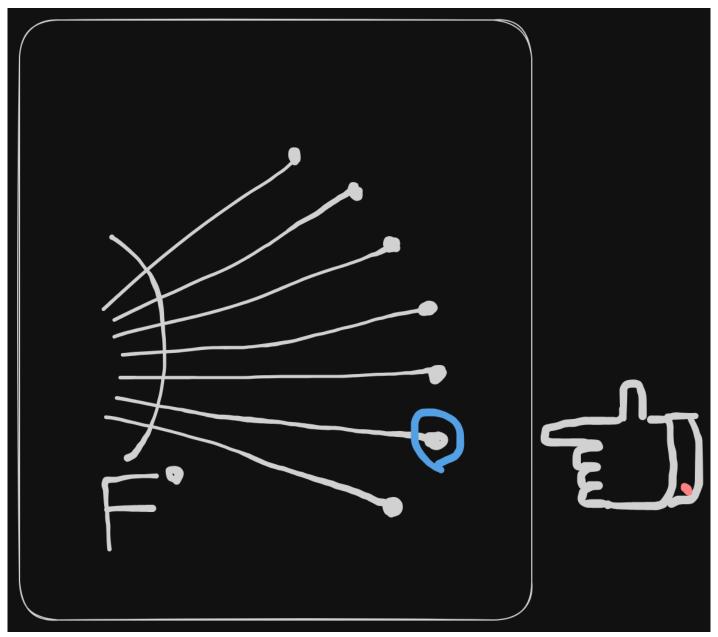
Let F: Species of structures

$$F^\circ := F[U] \times U$$

Transport of structure is defined by:

$$\forall U,V \in \Omega, \forall \sigma: U \longrightarrow V \in \Gamma$$

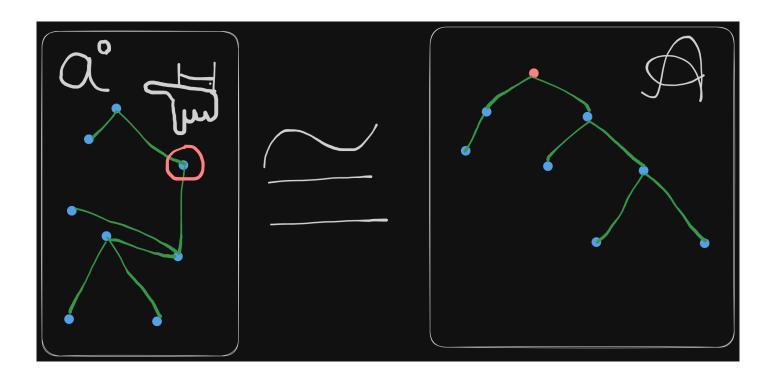
$$F^{\circ}[\sigma](s,u):=(F[\sigma](s),\sigma(u))$$



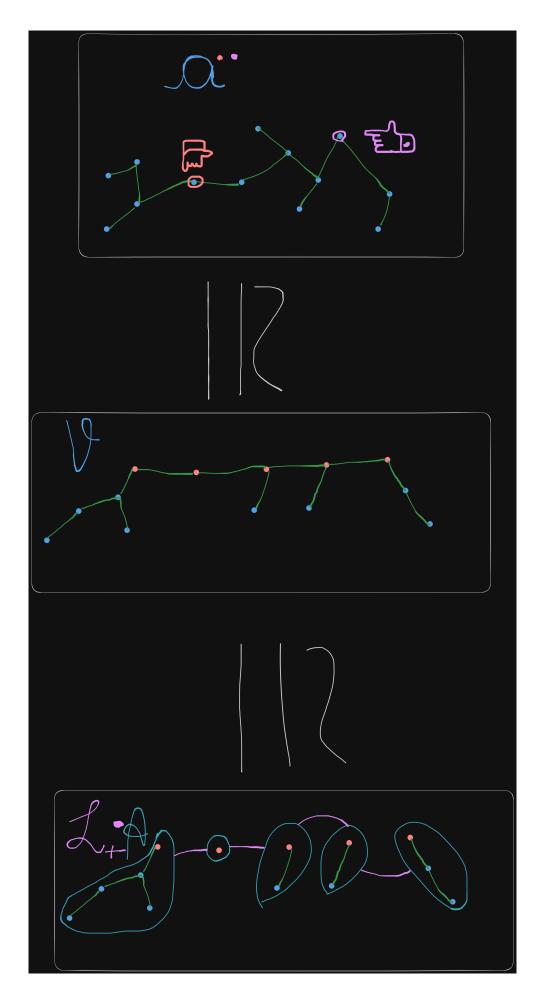
Pointing to a structure

Example

$$\mathcal{A}=a^\circ$$



$$\begin{split} F^\circ &\cong X \cdot F' \\ &\Longrightarrow \mathcal{V} := a^{\circ\circ} \cong L_+(\mathcal{A}) \\ &|\mathcal{V}| = n^2 |a| \\ \\ |\mathcal{V}| &= |\mathcal{L}_+(\mathcal{A})[n]| = |\mathcal{S}(\mathcal{A})[n]| = n^n \\ &\Longrightarrow n^n = n^2 \cdot |a| \end{split}$$



Properties

$$|F^\circ[n]| = n \cdot |F[n]|$$