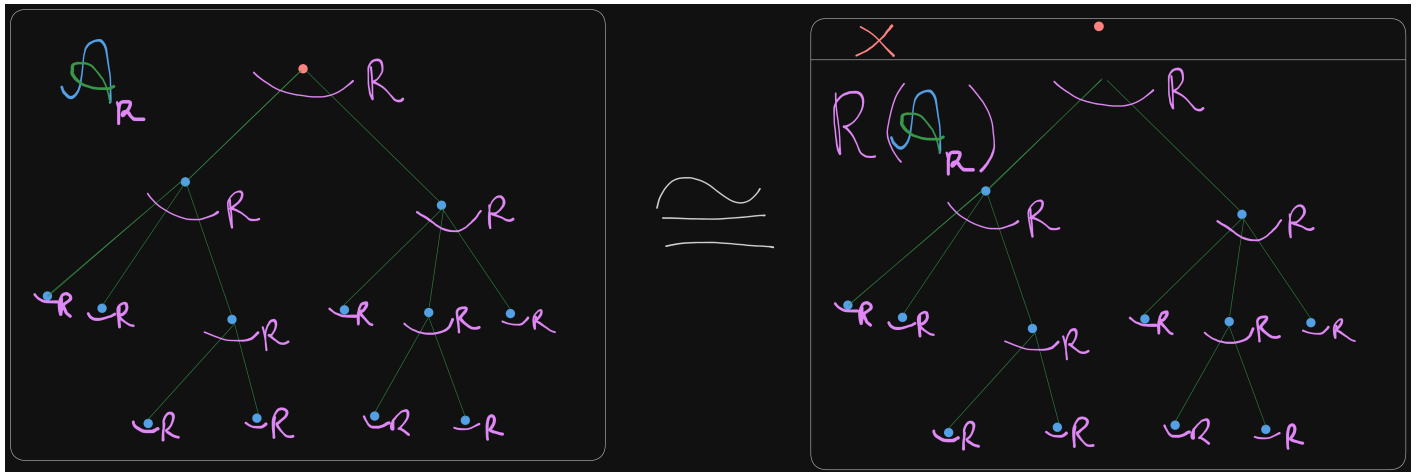# R-enriched tree

Let R be a species of structures, then an R-enriched tree structure on set U consists of

1. A rooted tree $s \in \mathcal{A}[U]$
2. $\forall u \in U, R$-structure on the children of u

$$\mathcal{A}_r[U] := \text{Set of R-enriched tree structures on} U$$

Example

$$\mathcal{A}_E = \mathcal{A}$$
$$\mathcal{A}_L = \text{Planar trees}$$
$$\mathcal{A}_{1+X} = L_+$$