Definition (Semigroup right action (preliminary version)). A semigroup **right** action of a semigroup **S** onto a set **A** is a map

Ract:
$$\mathbf{A} \times \mathbf{S} \to \mathbf{A}$$

such that, for all $a \in A$,

$$Ract(Ract(a, x), y) = Ract(a, x ; y).$$