



## Successors

### 1 Why

TODO To define the natural numbers

### 2 Definition

The *successor* of a set is the union of the set with the singleton whose element is the set.

#### 2.1 Notation

Let  $x$  be a set. We denote the successor of  $x$  by  $x^+$ . We defined it by

$$x^+ := x \cup \{x\}$$