



# Set Extension

## 1 Why

When are two sets the same?

## 2 Definition

Two sets are the same if and only if they have the same elements.  
*equal* if and only if they have the same elements.

### 2.1 Notation

Let  $A$  and  $B$  be two sets. As with any objects, we denote that  $A$  and  $B$  are equal by  $A = B$ .