

## FLOATING POINT REPRESENTATIONS

## Why

We want to represent elements of the set of real numbers as digital data.

## **Definition**

A floating point representation is a bit string.<sup>1</sup>

## Notation

In this context, float32is another name for the set of length 32 bit strings and float64is another name for the set of length 64 bit strings.

<sup>&</sup>lt;sup>1</sup>Future editions will expand.

