

~~ZR~~ (1) From \mathbb{Z} to \mathbb{R} via Ordering
Having constructed

$$\mathbb{Z} = \{\dots, -1, 0, 1, \dots\}$$

we can put a strict
ordering on it so that
for all $n \in \mathbb{Z}$, $n < n+1$.

With this ordering

$0 \rightarrow 1$ in one step

$0 \rightarrow 2$ in two
successive
steps

Similarly for

$n \rightarrow n+1$

$n \rightarrow n+2$