



```
Real Numbers Uncountable

Real Numbers Uncountable

Real Numbers Uncountable

15 8 11 2

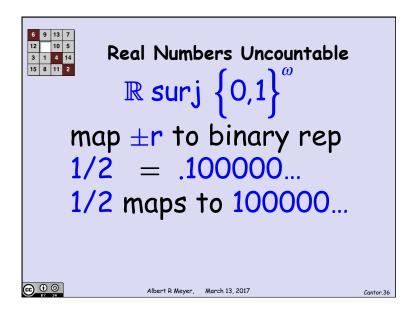
Real Numbers Uncountable

16 9 13 7

Map \pm r to binary rep

17 1/3 = 111.010101...

maps to 111010101...
```



```
Real Numbers Uncountable

R surj \{0,1\}^{\omega}

map \pm r to binary rep

1/2 = .100000...

1/2 maps to 100000...

= .0111111...

-1/2 maps to 0111111...

Albert R Meyer. March 13, 2017

Real Numbers Uncountable

0,1)

0,1)

Rapper Uncountable

R surj \{0,1\}^{\omega}
```