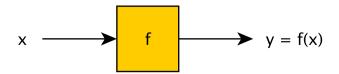
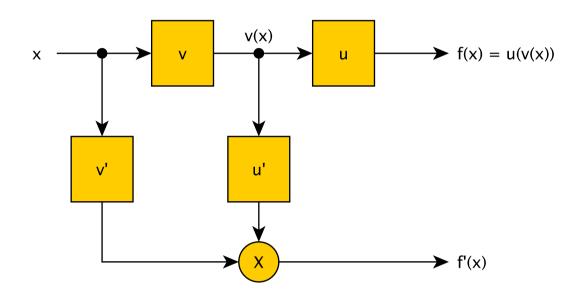
function f maps x to y

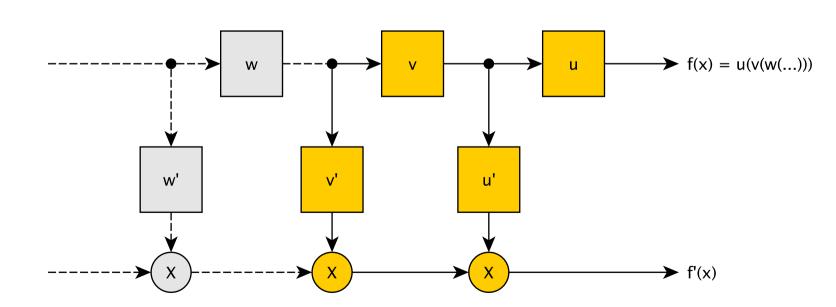


Chain rule

$$f(x) = u(v(x))$$
 --> $f'(x) = u'(v(x)) \cdot v'(x)$



more generalized: add a branch for each function composition



Remember the subtle differences:

- look at f(x) as a function of a weight, not of input data
- there is a difference in function composition:
 - f(u(x1,x2))
 - f(u(x1), x2)