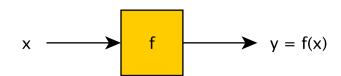
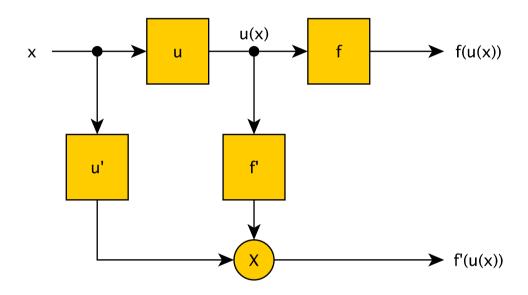
function f maps x to y

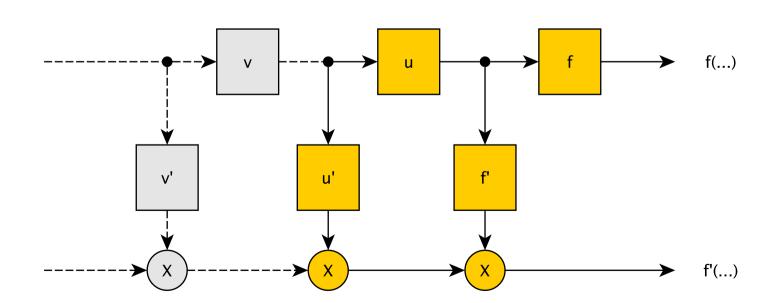


Chain rule

$$f(u(x)) \longrightarrow f'(u(x)) = f'(u(x)) * u'(x)$$



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)