

Derivative Computation a Generic Extension

$$\begin{array}{ccc}
 & f & \\
 x + dx & \xrightarrow{\quad} & f(x) + Df(x)*dx \\
 \backslash & & / \\
 & Df & \\
 x & \xrightarrow{\quad} & Df(x)
 \end{array}$$

$$\begin{array}{ccccc}
 & f & & g & \\
 x + dx & \xrightarrow{\quad} & f(x) + Df(x)*dx & \xrightarrow{\quad} & g(f(x)) + Dg(f(x))*Df(x)*dx
 \end{array}$$