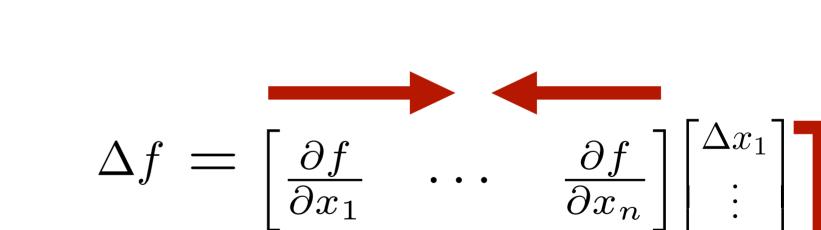
Scalar
$$f$$
:

 $f:\mathbb{R}^n o \mathbb{R}$

$$\operatorname{tr} f$$
:



 $\Delta f = \frac{\partial f_1}{\partial x_1} \Delta x_1 + \dots + \frac{\partial f_1}{\partial x_n} \Delta x_n$