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In vector calculus, the derivative of a vector function y with respect to a vector x whose components represent a space is known as the pushforward (or differential), or the Jacobian matrix. The pushforward along a vector function f with respect to vector v in \mathbb{R}^n is given by $d f (v) = \nabla f \cdot v$.
$$d \mathbf{f} (\mathbf{v}) = \frac{\partial \mathbf{f}}{\partial \mathbf{v}}$$

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Straightforward extension to scalar chain rule? I Complex subject of its own? I Or, can be something in between? Main references I Matrix
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A more extensive account of matrix differential calculus, which relies exclusively on vectorised matrices, was provided by the text of Magnus
and Neudecker (1988). This has become a standard reference. More recent accounts of matrix differential calculus have been provided by
Turkington (2002) and by Harville (2008).

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