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

*Matrix calculus - Wikipedia*

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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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