Generalized $n$th Riemann derivatives of real functions $f$ are defined by limits of the form $D_A f(x) = \lim_{h \to 0} h^{-n} \sum_i A_i f(x + b_i h)$, where the data vector $A$ of coefficients $A_i$ and $b_i$ is subject to the compatibility condition that $D_A f(x) = f^{(n)}(x)$ whenever $f$ is $n$ times differentiable at $x$. Allowing the coefficients $A_i$ to be functions of $h$ gives rise to a larger class of generalized Riemann derivatives. I will discuss a few properties, examples, and questions regarding these derivatives. (Received August 11, 2015)