Vitali covering

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Defines	Vitali class

A collection of sets $\mathscr{V}$ in a metric space X is called a *Vitali covering* (or Vitali class) for X if for each $x \in X$ and $\delta > 0$ there exists $U \in \mathscr{V}$ such that $x \in U$ and $0 < \mathrm{diam}(U) \leq \delta$.