Definition 8.17. *[OGX] Let $E, F \subseteq X$ be sets:*

- *a point $x_0 \in X$ is an **adherent point of** E if every neighborhood U of x_0 has non-empty intersection with E;*

- *a point $x_0 \in E$ is **isolated in** E if there exists a neighborhood U of x_0 such that $E \cap U = \{x_0\}$;*

(Note that, in some cases, sets can have at most a countable number of isolated points: see [OT4] and [OMF], and also [OT5]).