DBSCAN: Definitions and Algorithm Outline

- ϵ -neighbourhood of $\mathbf{x} = \text{set of points } \mathbf{x}_i \text{ such that } d(\mathbf{x}, \mathbf{x}_i) \leq \epsilon$
- \bullet x = core point if its ϵ -neighbourhood contains at least $n_{min} \neq \mathsf{points}$
- \bullet \mathbf{x}_i in the ϵ -neighbourhood of core point \mathbf{x} is directly reachable from \mathbf{x}
- \mathbf{x}_n is reachable from \mathbf{x}_1 if there is a path $\mathbf{x}_1 \to \mathbf{x}_2 \to \cdots \to \mathbf{x}_n$ where \mathbf{x}_{i+1} is directly reachable from $\mathbf{x}_i \to \mathbf{non}$ -reachable points are outliers

