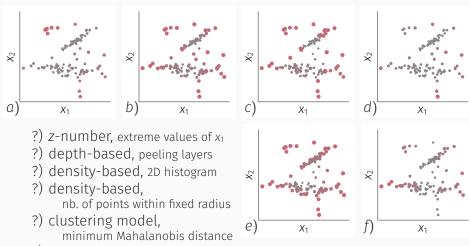
## Algorithmic Data Analysis

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## Q7.1: Outliers in few dimensions

Large red dots are more likely outliers. Match methods to plots



?) distance-based, distance to third nearest neighbor (k-NN)

## Q7.2: Further outlier problems

Arrange these task characteristics and tools into four clusters

high dimensionality shape outlier

subspace outlier contextual outlier

discrete sequences angle-based method cluster-based method grid-based sparsity next-element prediction time-series
HOTSAX
genetic algorithm
isolation tree
suffix tree