2　Visualization with hierarchical clustering and t-SNE

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In this chapter, you'll learn about two unsupervised learning techniques for data visualization, hierarchical clustering and t-SNE. Hierarchical clustering merges the data samples into ever-coarser clusters, yielding a tree visualization of the resulting cluster hierarchy. t-SNE maps the data samples into 2d space so that the proximity of the samples to one another can be visualized.

▷ **Visualizing hierarchies**	**50 xp**
☰ **How many merges?**	**50 xp**
</> **Hierarchical clustering of the grain data**	**100 xp**
</> **Hierarchies of stocks**	**100 xp**
▷ **Cluster labels in hierarchical clustering**	**50 xp**
☰ **Which clusters are closest?**	**50 xp**
</> **Different linkage, different hierarchical clustering!**	**100 xp**
☰ **Intermediate clusterings**	**50 xp**
</> **Extracting the cluster labels**	**100 xp**
▷ **t-SNE for 2-dimensional maps**	**50 xp**
</> **t-SNE visualization of grain dataset**	**100 xp**
</> **A t-SNE map of the stock market**	**100 xp**

HIDE CHAPTER DETAILS