



Fig. 1.1 Steps in the KDD process

[3]

<u>KNOWLEDGE DISCOVERY in DATA</u>



sources

[1]: http://www.clips.ua.ac.be/pages/pattern
[2]: CLiPS - Guy de Pauw, Pattern workshop - Cqrrelations, January 2015
[3]: Data Mining and Profiling in Large Databases, Bart Custers, Toon Calders, Bart Schermer, and Tal Zarsky (Eds.) (2013)



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The KDD-process may be very helpful in finding pattern and relations in large databases that are not immediately visible to the human eye. Generally, deriving patterns and relations are considered creating added value out of databases, as the patterns and relations provide insight and overview and may be used for decisionmaking. The plain database may not (or at least not immediately) provide such insight. For that reason, usually a distinction is made between the terms data and knowledge. Data is a set of facts, the raw material in databases usable for data mining, whereas knowledge is a pattern that is interesting and certain enough for a user.¹⁴ It may be obvious that knowledge is therefore a subjective term, as it depends on the user. For instance, a relation between vegetable consumption and health may be interesting to an insurance company, whereas it may not be interesting to an employment agency. Since a pattern in data must fulfill two conditions (*interestingness* and *certainty*) in order to become knowledge, we will discuss these conditions in more detail.

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