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In most real-life applications of any decision making one needs to face many types on uncertainty. While as humans we can deal with this uncertainty with our reasoning prowess it is not clear how to deal with this uncertainty in a system. Fuzzy sets and fuzzy logic gives us one way of representing this uncertainty and reasoning with them.

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A fuzzy set is a generalization of the ideas of an ordinary or crisp set. A fuzzy subset can be seen as a predicate whose truth values are drawn from the unit interval,  $I = [0,1]$  rather than

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the set  $\{0,1\}$  as in the case of an ordinary set. Thus the fuzzy subset has as its underlying logic a multi-valued logic.

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