


Supervised learning

- **Concept:** some function $c : \{0, 1\}^n \rightarrow \{0, 1\}$.

Think of $x \in \{0, 1\}^n$ as an object described by n “features”, and concept c as describing a set of related objects

- **Goal:** learn c from a small number of examples: $(x, c(x))$

	grey	brown	teeth	huge	$c(x)$
	1	0	1	0	1
	0	1	1	1	0
	0	1	1	0	1
	0	0	1	0	0

Output hypothesis could be: $(x_1 \text{ OR } x_2) \text{ AND } \neg x_4$