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Of concepts

Why concepts are important

- Analogy
 - If you had a bad experience with a dangerous animal, it is useful to know that similar animals may also be dangerous. Having a concept for that class of animals makes it easier to treat similar animals in similar ways.
- Scientific laws
 - Scientific laws deal with *kinds of situations* (e.g. dropping a heavy object), rather than with individual cases (e.g. this apple that fell from a tree).
- Rules
 - Mandatory legal rules deal with *types of agents* (e.g. car drivers) rather than with individual persons (e.g. Jane).
- Systematization of knowledge
 - The structure of law is determined by concepts such as 'crime', 'obligation', or 'power'.



recognise

Concepts, classes and predicates





Abstract and concrete

D recognise

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Synonymy and ambiguity





Tautologies, contradictions and contingent judgments

- A tiger is a feline living being that can move autonomously and which feeds on other animals
 - What facts make this statement true?
 - This is a tautology which gives only information about our concepts, but not about the world.

• Clarence is a tiger which is not an animal

- Why can this statement not be true?
 - This is a contradiction because the concept of a lion includes the concept of an animal.

• The cat is on the mat

- What facts make this statement true?
 - This is a contingent judgement which gives information about the world, but not on our concepts.

Problematic cases

Borderline cases

- Suppose that a dog is defined as a four-legged animal that barks. Is a dog with only three legs still a dog?
- Is a 'car' in a museum still a car?

• Family resemblance

• Do all members of a class have a set of common characteristics? What is the common characteristic of games?

Gradual concepts

• Is the applicability of a concept an all-or-nothing matter? When is a man bald?

Basic concepts

• If concepts are defined in terms of other concepts, how are the most basic concepts defined? When is something 'living'?

• Value judgments

• Is it possible that two persons agree on all ordinary characteristics of a football match, can they disagree on whether the match was a good one? What are the characteristics of goodness?

Theoretical concepts

• What are the characteristics of ownership? Are such abstract concepts comparable to more down to earth concepts?

Prototypes and deviations

- Concepts are the result of clustering entities together in a class and developing a **theory** of what these entities have in common.
 - For instance, some things are (belong to the class of) fruits. What are the common characteristics of fruits?
- Some entities are typical examples (prototypes) of a class; other things are marginal.
 - For instance, apples and pears are prototypical fruits. Tomatoes are less typical, and nuts are at best marginal instances of a fruit.
- Concepts are developed as a theory of what defines a class, and not the other way around.
 - Biologists develop theories about what is a fish. Are dolphins fishes?
 - Are viruses living 'animals'?
 - Are exoplanets 'real' planets?
 - Jurisprudence may develop a theory of what defines a property right. Are mortgages property rights? The right to privacy?

