

Lösungsvorschlag für das Übungsblatt 10.

Aufgabe 1.

Bemerkung: im Folgenden handelt es sich um durchaus subjektive Vorschläge, die in eine feste Klassifikation gepresst wurden. Manche der Beispiele erscheinen künstlich. Sehr gut scheint es in der Rechtswissenschaft zu funktionieren. Überlegen Sie warum.

Wort	<Hyponym>	<Hyperonym>	<Meronym>	<Holonym>.
a)Einhorn	Einhorn mit Flügeln	Fabeltier	Horn	Herde
Linguist	Computerlinguist	Wissenschaftler	?	Sprachforschungsgruppe
Tisch	Frühstückstisch	Möbelstück	Tischfuss	Wohnungsausstattung
Geige	Amati	Musikinstrument	Griffbrett	Orchester
See	Nordsee	Gewässer	?	Hydrosphäre
Mord	heimtückischer M.	Totschlag	Mordmerkmale	Strafrecht
b)Analyse	Textanalyse	Untersuchung	?	-
Wand	Betonwand	Trennelement	Ziegel	Gebäude
Hans	-	Mensch	?Überich	?Familie
laufen	joggen	sich bewegen	-	-
schenken	-	geben	-	-
c)tanzen	einen Walzer tanzen	sich bewegen	-	-
singen	jodeln	kommunizieren	?ausatmen	?
aber	-	-	-	-
d)linguistisch	computerlinguistisch	geisteswissenschaftlich	semantisch	
-	-			

Aufgabe 2.

Dolphin – Nomen: dolphinfish, mahimahi;

Fish – Nomen: pisces; Verb: angle.

Animal

Sense 1

animal, animate being, beast, brute, creature, fauna -- (a living organism characterized by voluntary movement)

=> organism, being -- (a living thing that has (or can develop) the ability to act or function independently)

=> living thing, animate thing -- (a living (or once living) entity)

=> object, physical object -- (a tangible and visible entity)

=> physical entity -- (an entity that has physical existence)

=> entity -- (that which is perceived or known or inferred to have its own distinct existence (living or nonliving))

Fish

4 senses of fish

Sense 1

fish -- (any of various mostly cold-blooded aquatic vertebrates usually having scales and breathing through gills; "the shark is a large fish"; "in the living room there was a tank of colorful fish")

=> aquatic vertebrate -- (animal living wholly or chiefly in or on water)

=> vertebrate, craniate -- (animals having a bony or cartilaginous skeleton with a segmented spinal column and a large brain enclosed in a skull or cranium)

=> chordate -- (any animal of the phylum Chordata having a notochord or spinal column)

=> animal, animate being, beast, brute, creature, fauna -- (a living organism characterized by voluntary movement)

=> organism, being -- (a living thing that has (or can develop) the ability to act or function independently)

=> living thing, animate thing -- (a living (or once living) entity)

=> object, physical object -- (a tangible and visible entity; an entity that can cast a shadow; "it was full of rackets, balls and other objects")

=> physical entity -- (an entity that has physical existence)

=> entity -- (that which is perceived or known or inferred to have its own distinct existence (living or nonliving))

Sense 2

fish -- (the flesh of fish used as food; "in Japan most fish is eaten raw"; "after the scare about foot-and-mouth disease a lot of people started eating fish instead of meat"; "they have a chef who specializes in fish")

=> food, solid food -- (any solid substance (as opposed to liquid) that is used as a source of nourishment; "food and drink")

=> solid -- (a substance that is solid at room temperature and pressure)

=> substance, matter -- (that which has mass and occupies space; "an atom is the smallest indivisible unit of matter")

=> physical entity -- (an entity that has physical existence)

=> entity -- (that which is perceived or known or inferred to have its own distinct existence (living or nonliving))

Sense 3

Pisces, Fish -- ((astrology) a person who is born while the sun is in Pisces)

=> person, individual, someone, somebody, mortal, soul -- (a human being; "there was too much for one person to do")

=> organism, being -- (a living thing that has (or can develop) the ability to act or function independently)

=> living thing, animate thing -- (a living (or once living) entity)

=> object, physical object -- (a tangible and visible entity; an entity that can cast a shadow; "it was full of rackets, balls and other objects")

=> physical entity -- (an entity that has physical existence)

=> entity -- (that which is perceived or known or inferred to have its own distinct existence (living or nonliving))

=> causal agent, cause, causal agency -- (any entity that produces an effect or is responsible for events or results)

=> physical entity -- (an entity that has physical existence)

=> entity -- (that which is perceived or known or inferred to have its own distinct existence (living or nonliving))

Sense 4

Pisces, Pisces the Fishes, Fish -- (the twelfth sign of the zodiac)

INSTANCE OF=> sign of the zodiac, star sign, -- ((astrology) one of 12 equal areas into which the zodiac is divided)

=> region, part -- (the extended spatial location of something; "the farming regions of France";

=> location -- (a point or extent in space)

=> object, physical object -- (a tangible and visible entity; an entity that can cast a shadow

=> physical entity -- (an entity that has physical existence)

=> entity -- (that which is perceived or known or inferred to have its own distinct existence (living or nonliving))

Aufgabe 3.

a) $\neg(A \vee B) \Leftrightarrow (\neg A \wedge \neg B)$

A	B	$A \vee B$	$\neg(A \vee B)$	$\neg A$	$\neg B$	$\neg A \wedge \neg B$	$\neg(A \vee B) \Leftrightarrow (\neg A \wedge \neg B)$
0	0	0	1	1	1	1	1
0	1	1	0	1	0	0	1
1	0	1	0	0	1	0	1
1	1	1	0	0	0	0	1

b) $(A \Rightarrow B) \Leftrightarrow (A \wedge B \Leftrightarrow A)$

A	B	$A \Rightarrow B$	$A \wedge B$	$A \wedge B \Leftrightarrow A$	$(A \Rightarrow B) \Leftrightarrow (A \wedge B \Leftrightarrow A)$
0	0	1	0	1	1
0	1	1	0	1	1
1	0	0	0	0	1
1	1	1	1	1	1

Aufgabe 4.

p – Paul schläft auf der Terrasse

m – Maria schläft auf der Terrasse

h – Hans schläft auf der Terrasse

a) Paul und Maria schlafen auf der Terrasse.

$$p \wedge m$$

b) Hans schläft auf der Terrasse, falls Maria auch das tut.

$$m \rightarrow h$$

c) Hans schläft auf der Terrasse, obwohl Paul, aber nicht Maria auf der Terrasse schläft.

$$h \wedge (p \wedge \neg m)$$