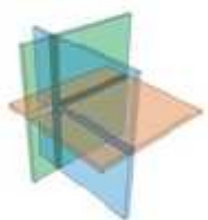


Semantic Web

- Motivation & Agenda -

Steffen Staab

<http://isweb.uni-koblenz.de>



UNIVERSITÄT
KOBLENZ · LANDAU



Tasks & Purpose

Find me pictures about a boy on the beach

Find me cute pictures about Nico to show to my Mum

Find me pictures from Greece

Find me pictures from our common holiday

- ◆ with a resolution of
- ◆ with no other person in the foreground...



Content semantics (general knowledge):

boy; beach; jet ski; sea; sky

Content semantics („private knowledge“):

Nico digging

Retrieval semantics:

cute picture to show

Situational semantics:

Chalkidiki, Greece, 2006

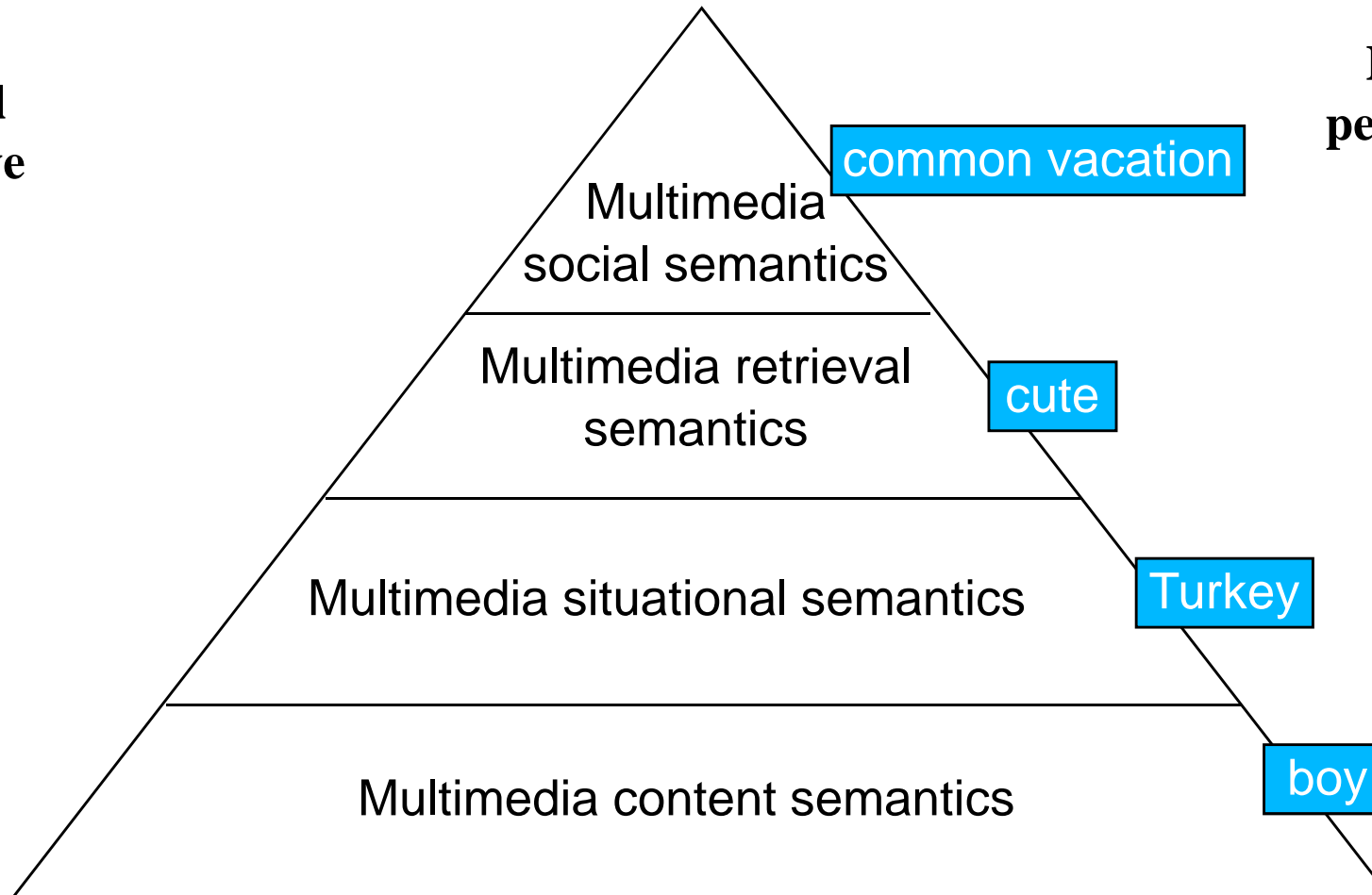
Social semantics:

SSMS 2006

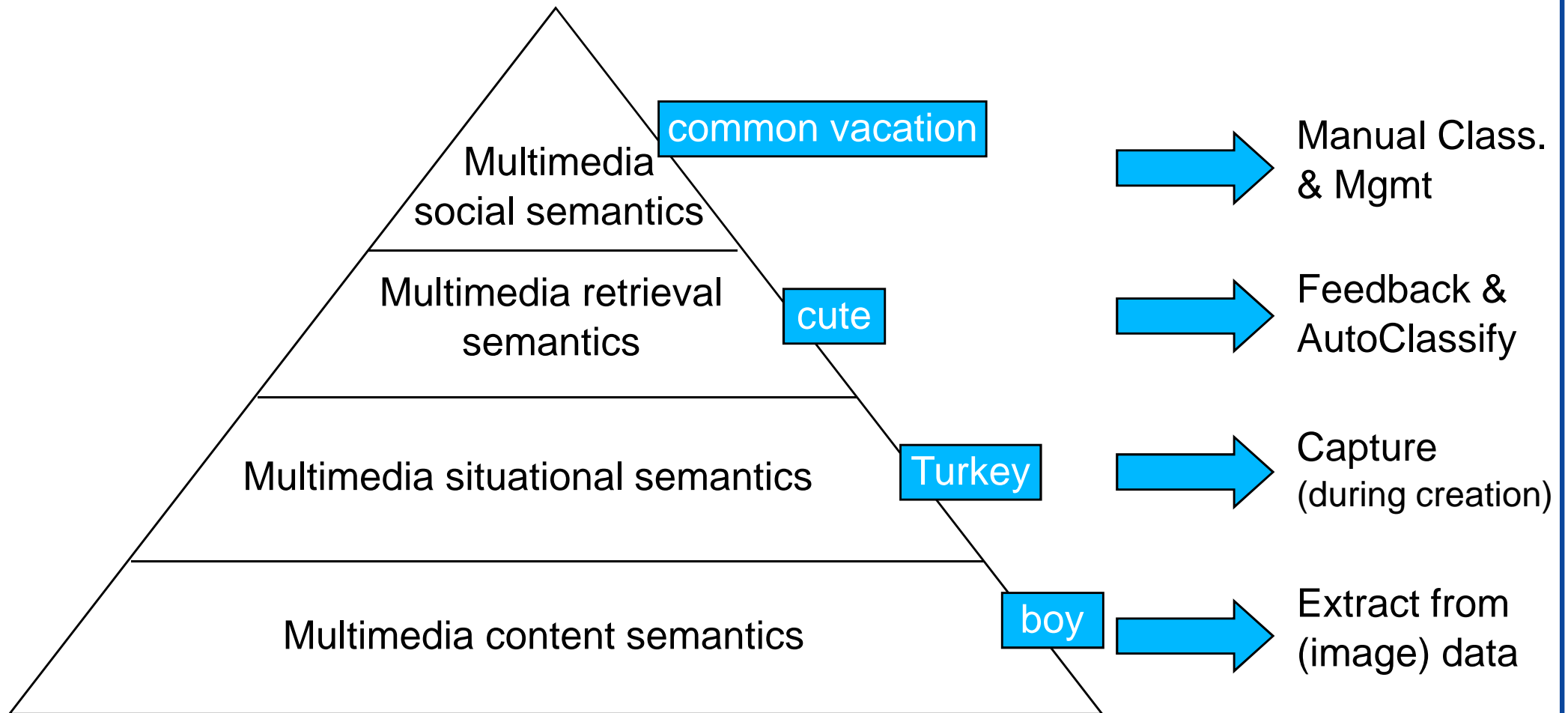


Technical
perspective

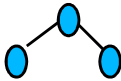
Human
perspective

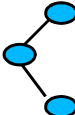


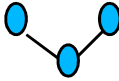
And semiotics will tell you that this list is incomplete...

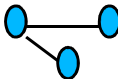


Find me a cute picture of Nico digging during our common vacation

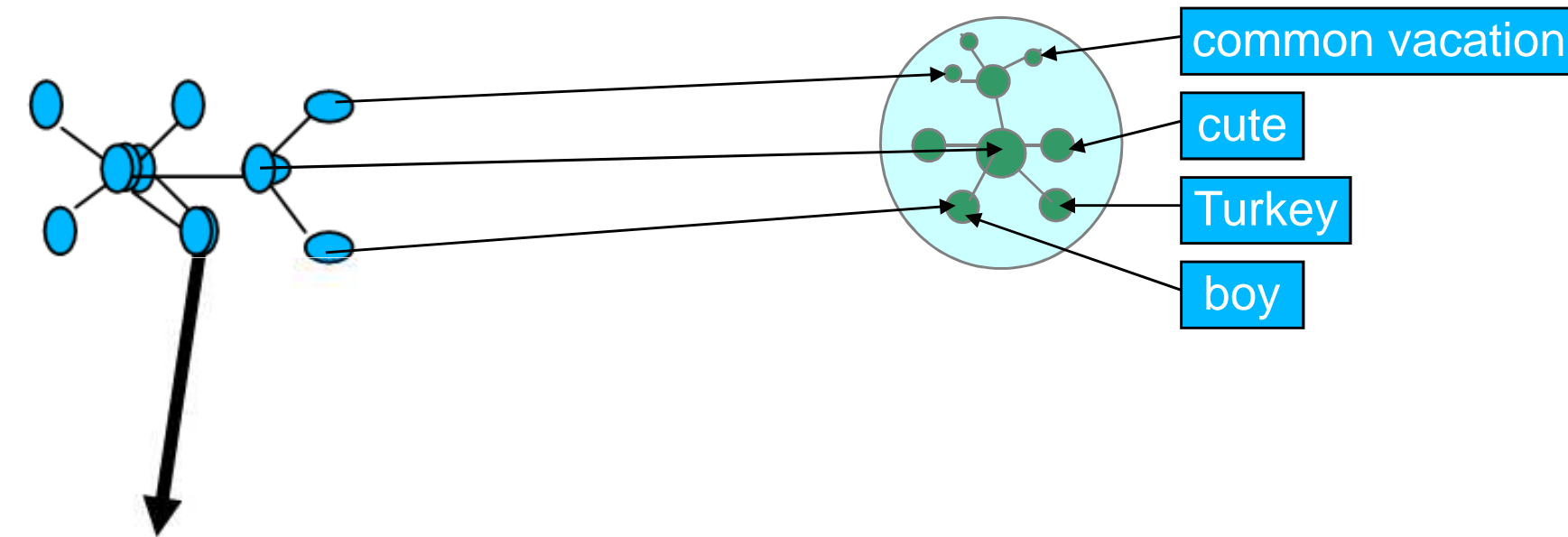
➔ Manual Class. & Mgmt 

➔ Feedback & AutoClassify 

➔ Capture (during creation) 

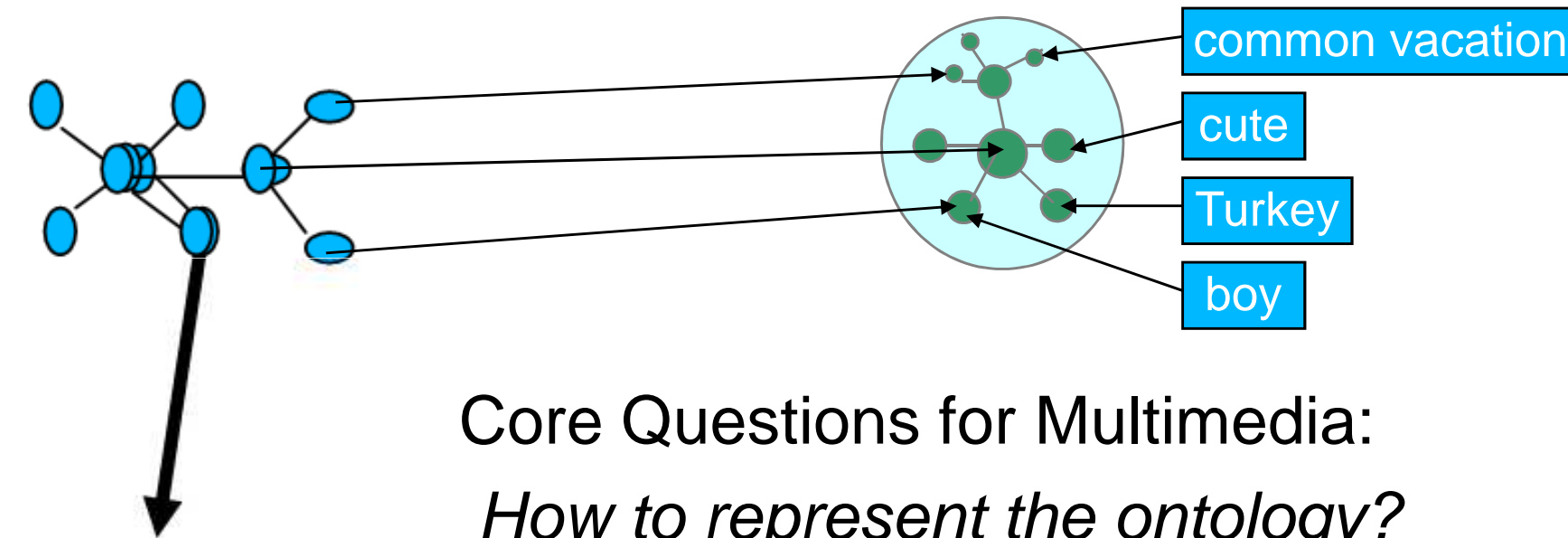
➔ Extract from (image) data 





"One Ring to rule them all,
One Ring to find them,
One Ring to bring them all and
in the darkness bind them."

Inscribed on the One Ring



Core Questions for Multimedia:

How to represent the ontology?

How to query the ontology?

Which ontology to construct how?

How to populate the ontology?



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Agenda Items:

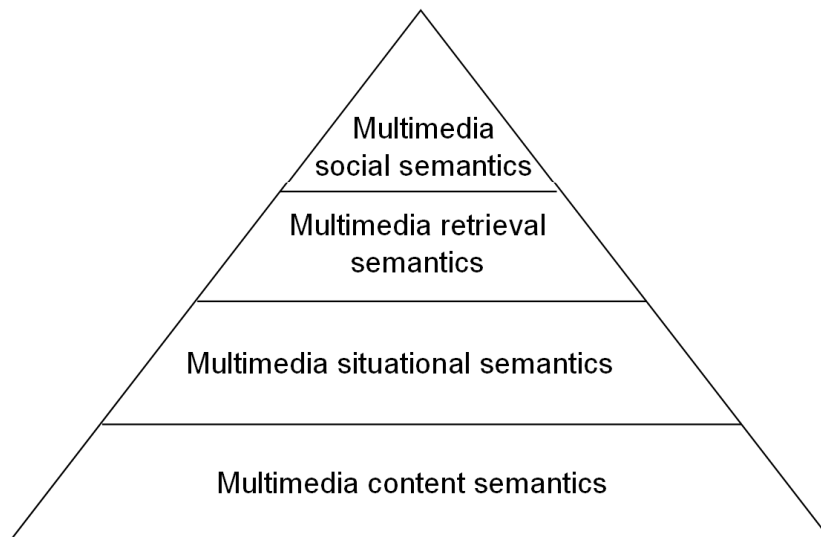
Ontology Representation
Languages

Ontology Query Languages

Multimedia Ontologies

Ontology-based

- ◆ content recognition
- ◆ content creation
- ◆ retrieval and feedback
- ◆ metadata management



Core Questions for Multimedia:

How to represent the ontology?

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Which ontology to construct how?

How to populate the ontology?

Agenda Items:

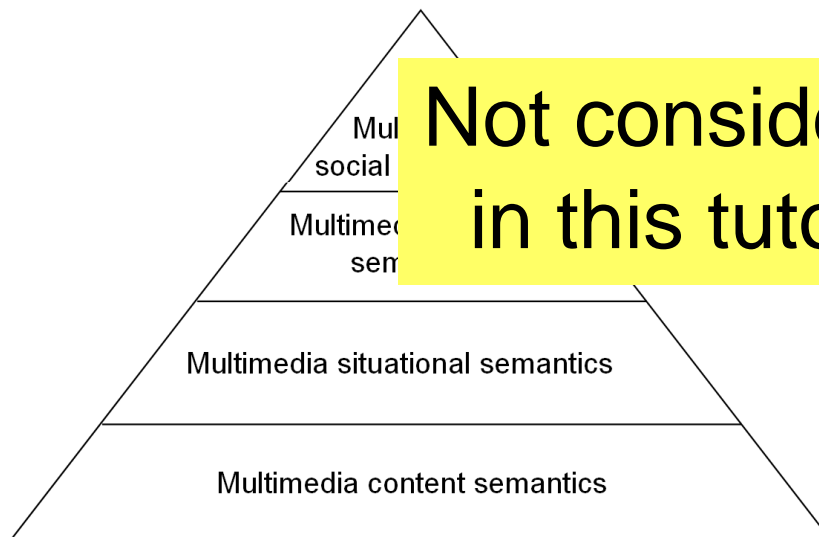
Ontology Representation
Languages

Ontology Query Languages

Multimedia Ontologies

Ontology-based

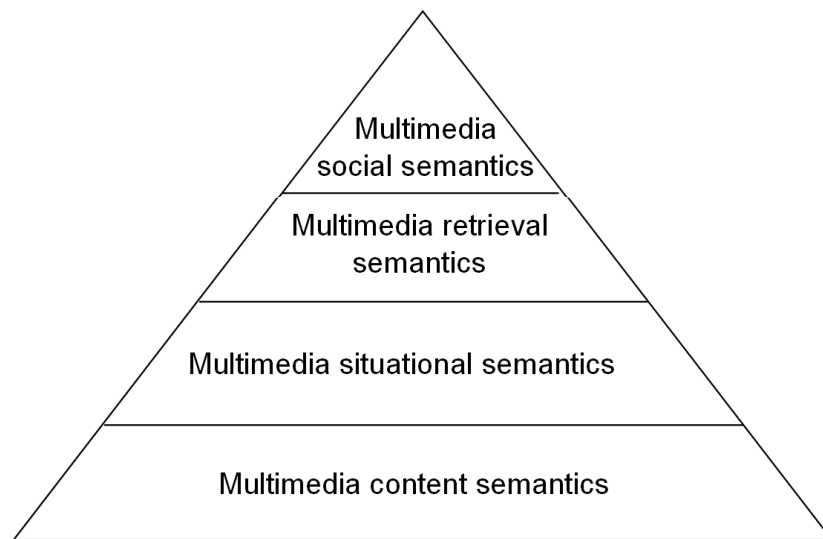
- ◆ annotation
- ◆ content recognition
- ◆ content creation
- ◆ retrieval and feedback
- ◆ metadata management



**Not considered
in this tutorial!**

Thank You

Advertisement



Interested in this?

**New EU project that
tackles these layers will
start next year!**

Positions@Koblenz open!

Talk to me or send email.