

NLP4IS

- Welcome!
- This week: introduction (basic NLTK, maybe Information Retrieval first part)
- Organizational things have to be clarified, can discuss them time
- Course will be shared with Pavel Braslavski as teacher

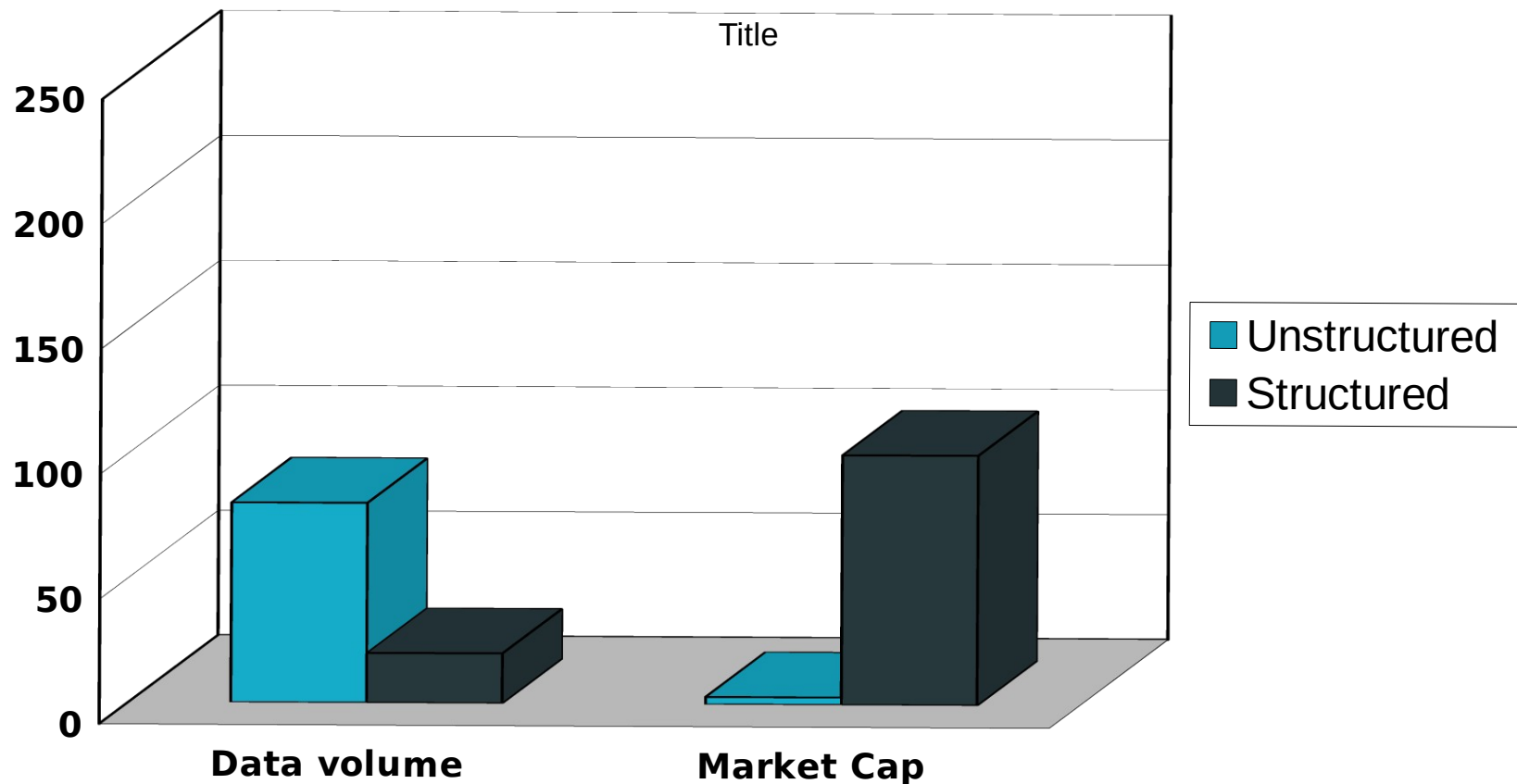
About me

- Dr. Gerhard Wohlgemannt
- .. from Austria
- Working at ITMO since May 2017
- Before: Business University Vienna / Austria
as Assistant Professor for 5 years
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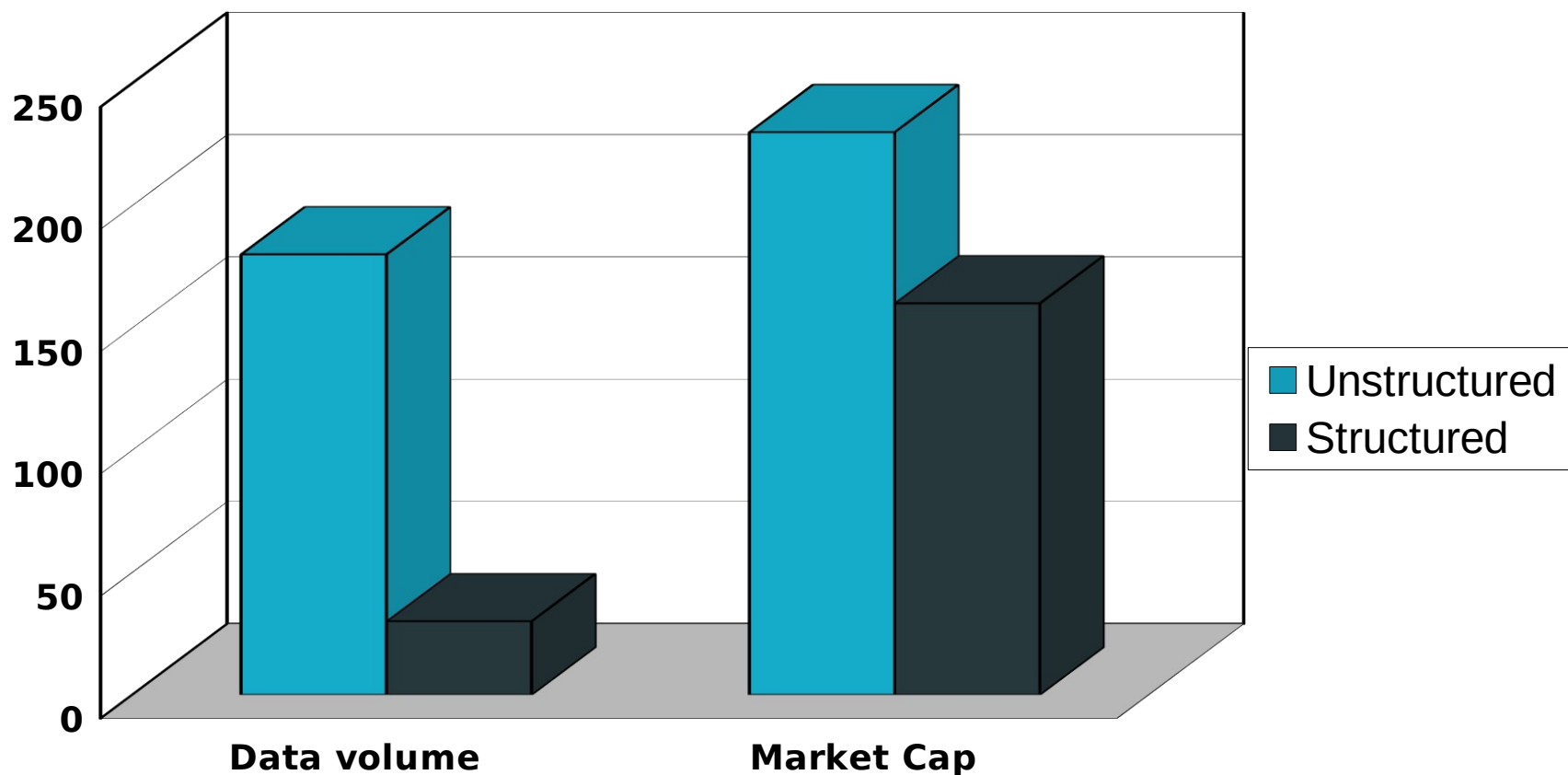
Overview my units

- **Unit 1:** Basics
- **Unit 2:** Word embeddings
- **Unit 3:** Spacy, NER, co-ref resolution
- **Unit 4:** State-of-the-art (deep learning) NLP with FastAI
- **Unit 5:** State-of-the-art (deep learning) NLP with FastAI
- **Unit 6:** NLG, transformers (BERT and others)

Unstructured (text) vs. structured (database) data in the mid-nineties



Unstructured (text) vs. structured (database) data **today**



Questions?

- What do you think of when you hear NLP?

Questions?

- What NLP applications do you think of?

Applications (examples)

- Chatbots / conversational AI
- Machine translation
- Text classification
- Sentiment detection
- and many more ...

Questions?

- How could we do **sentiment detection**?
 - What's your most simple idea?
 - What's a more sophisticated idea?
- How could we do **text classification**?
 - Simple?
 - Not sooo simple?
- How could we do **machine translation**?
 - Simple?
 - Not sooo simple?

Questions?

- What do you think of when you hear NLP?