

**AGH**



# suJSON - A Uniform JSON-based Subjective Data Format

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VQEG Meeting, March 2019, Berlin



- We want a uniform interface for a subjective data exchange
- Universal enough to describe all subjective tests' data
- Should capture as much information as possible
- Should not require any additional text files
- We start from subjective tests for video
- We plan to address all types of subjective tests

# Workflow



Define general requirements

**1**

Define a (preliminary) data format

**2**

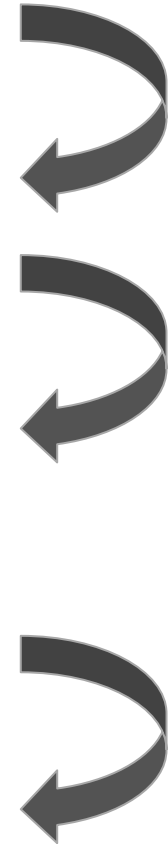
Test the format

- with legacy data-sets
- by asking the community
- in a real-life scenario

**3**

Propose improvements

**4**



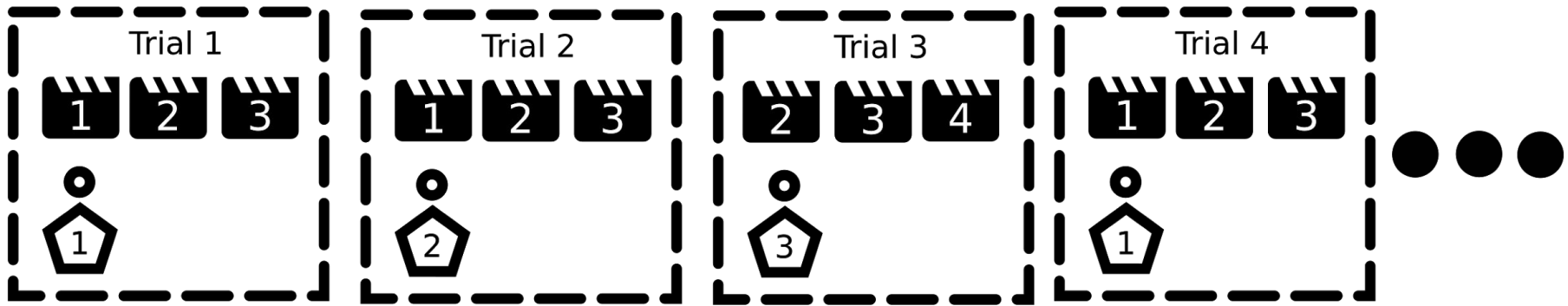


## Experiment 1

Task 1: Please watch 3 videos and score the first 2 **individually** and **compare** the 2<sup>nd</sup> with the 3<sup>rd</sup> one

**Question 1:** Please rate the overall quality

**Question 2:** Please compare 2 videos and say if the 1<sup>st</sup> is better or worse

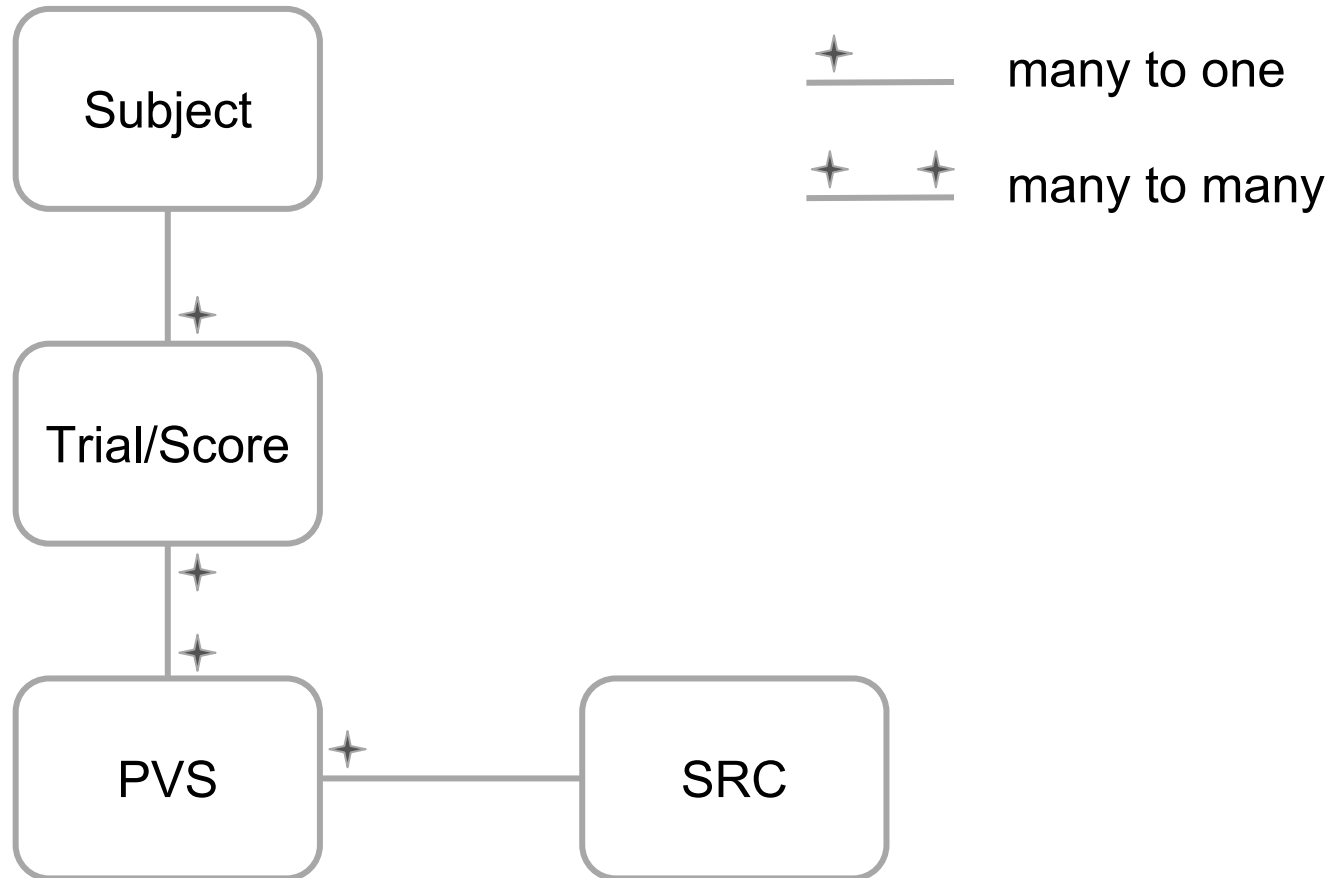


Subjects

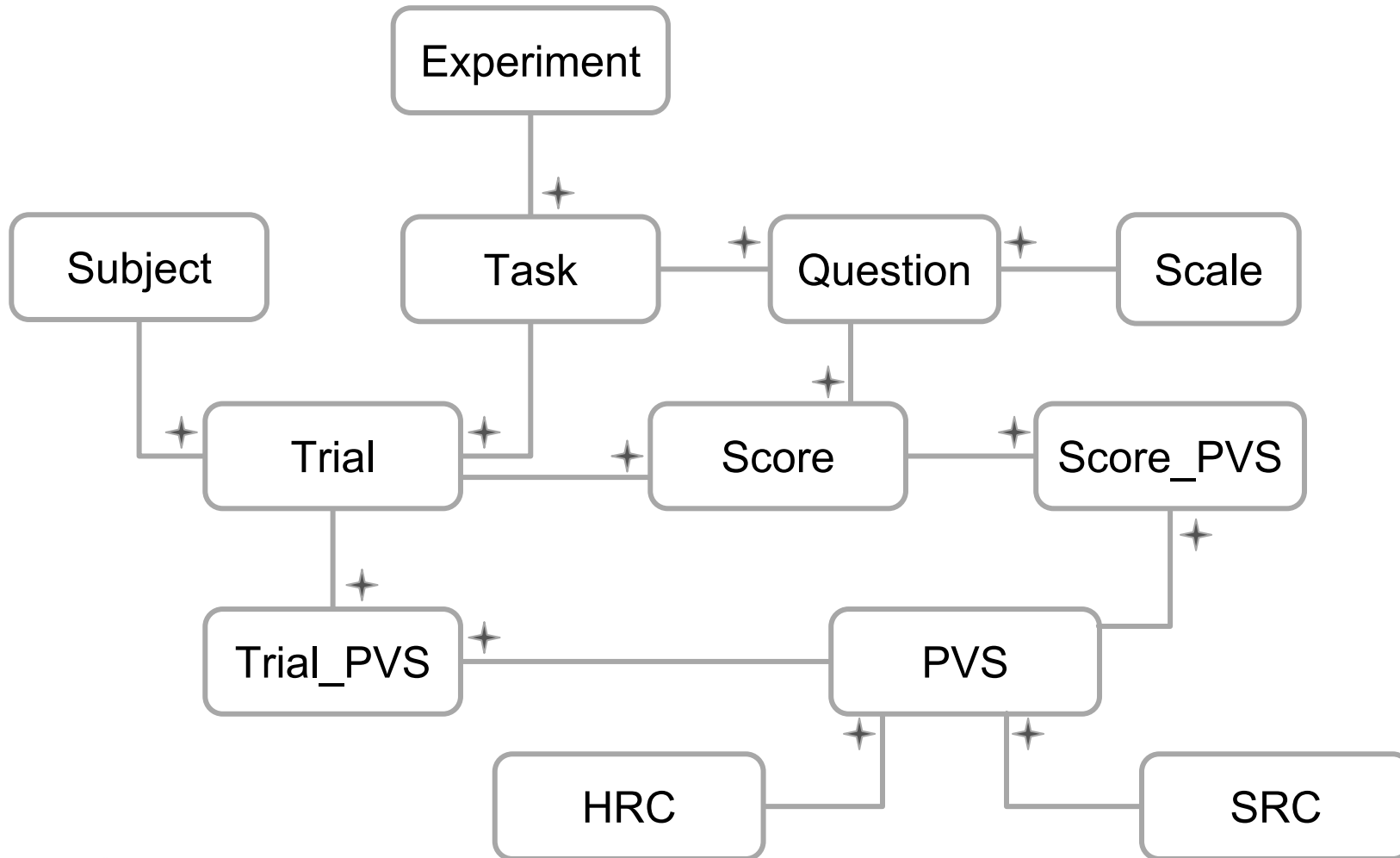


Videos

# Entity-Relationship Diagram

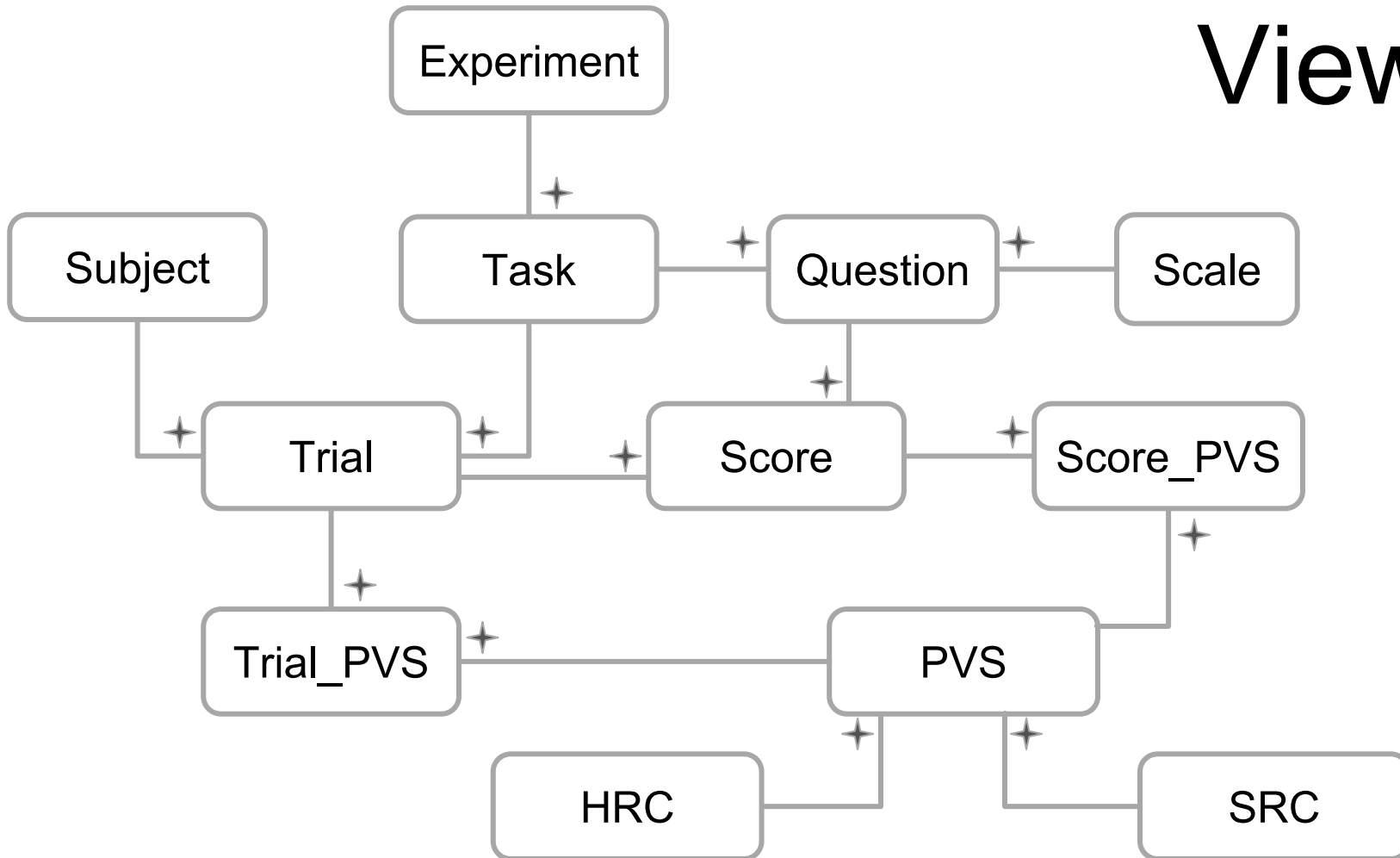


# Entity-Relationship Diagram





## Views





# Entity-Relationship Diagram



<https://bit.ly/2NImZy2>





# suJSON Tools



- Read XLS or MySQL database,
- Generate suJSON,
- Configuration file needed
  - Subjects characteristics,
  - Environmental setup,
  - Questions asked,
  - Scale(s) used.



# suJSON Tools contd.



- Tested on HDTV Phase I XLS file,
- and MySQL database used internally at AGH for subjective testing,
- Live demo.

# Where Are We Going?



- Share suJSON and tools
  - Detailed format description, code & examples
- suJSON tools using ER diagram as a default schema
- ER diagram revisited to make it more robust
- JSON as the target file format (ER diagram just for the exemplary database)

# Conclusions



- It is difficult to propose a standardised subjective data format
- Making the format fit all past and future experiments is probably infeasible

# Questions



1. Do you agree that having a standardised subjective data format is crucial?
2. Where should we stop with improving the format?
  - a. Maybe now?