

Artificial or Real

Anastasiia Shalygina, Mariia Godgildieva, Kirill Grjaznov

**How well can people distinguish between real data and
AI-generated?**

Data sources

- Images
 - Faces - StyleGan
 - Modern art - AICAN
- Texts - GPT-2
- Sounds
 - English speech - MelNet
 - Music - WaveNet

1 point



- ☐ Definitely yes
- ☐ Probably yes
- ☐ I don't know
- ☐ Probably no
- ☐ Definitely no

In your opinion, how many people will say that it is a real person? *

0% 10% 20% 30% 40% 50% 60% 70% 80% 90%

I say:

▶

✱

American viewers like digital streaming more and more. In fact, Netflix has become the second most viewed streaming service behind only Spotify, and now 40 percent of US households now stream more than one show a month.

American viewers like digital streaming more and more. They do not enjoy cable or satellite TV as much as in the past. The money that companies get from streaming is the highest in history.

- ☐ Definitely A=AI, B=human
- ☐ Probably A=AI, B=human
- ☐ I don't know
- ☐ Probably A=human, B=AI
- ☐ Definitely A=human, B=AI

In your opinion, how many people will say that text A is written by human (and B by AI)?

★

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

I say:

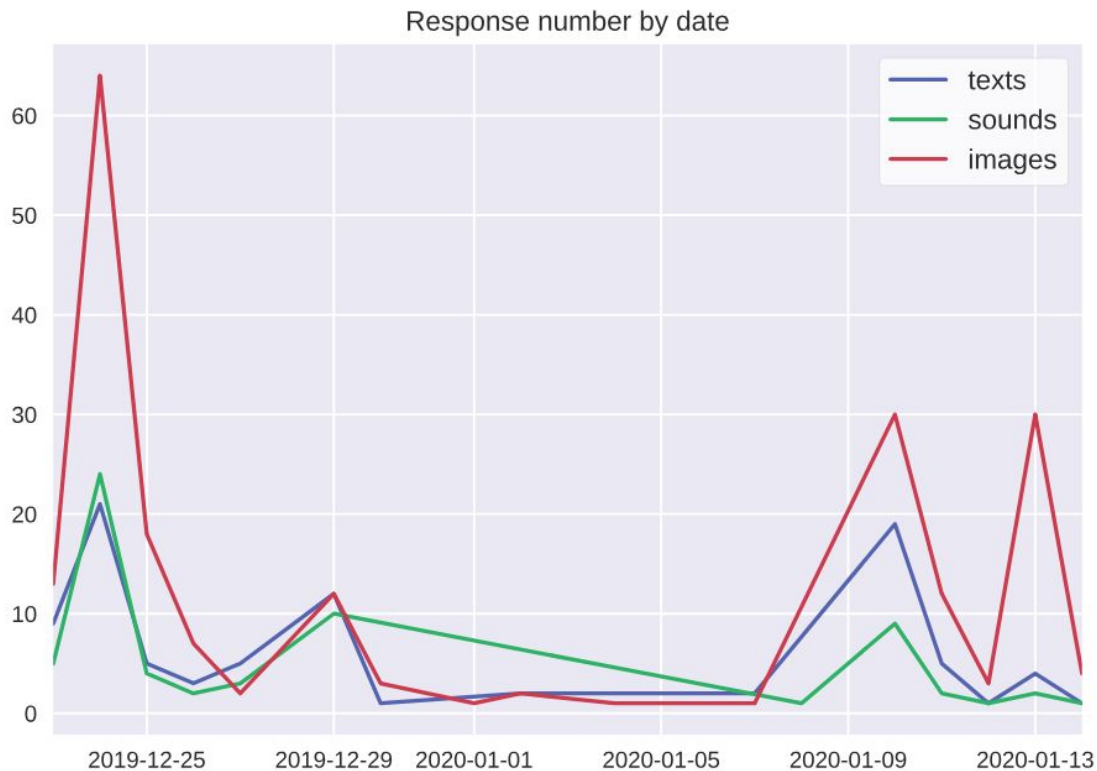
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

Questionnaires - Google Forms

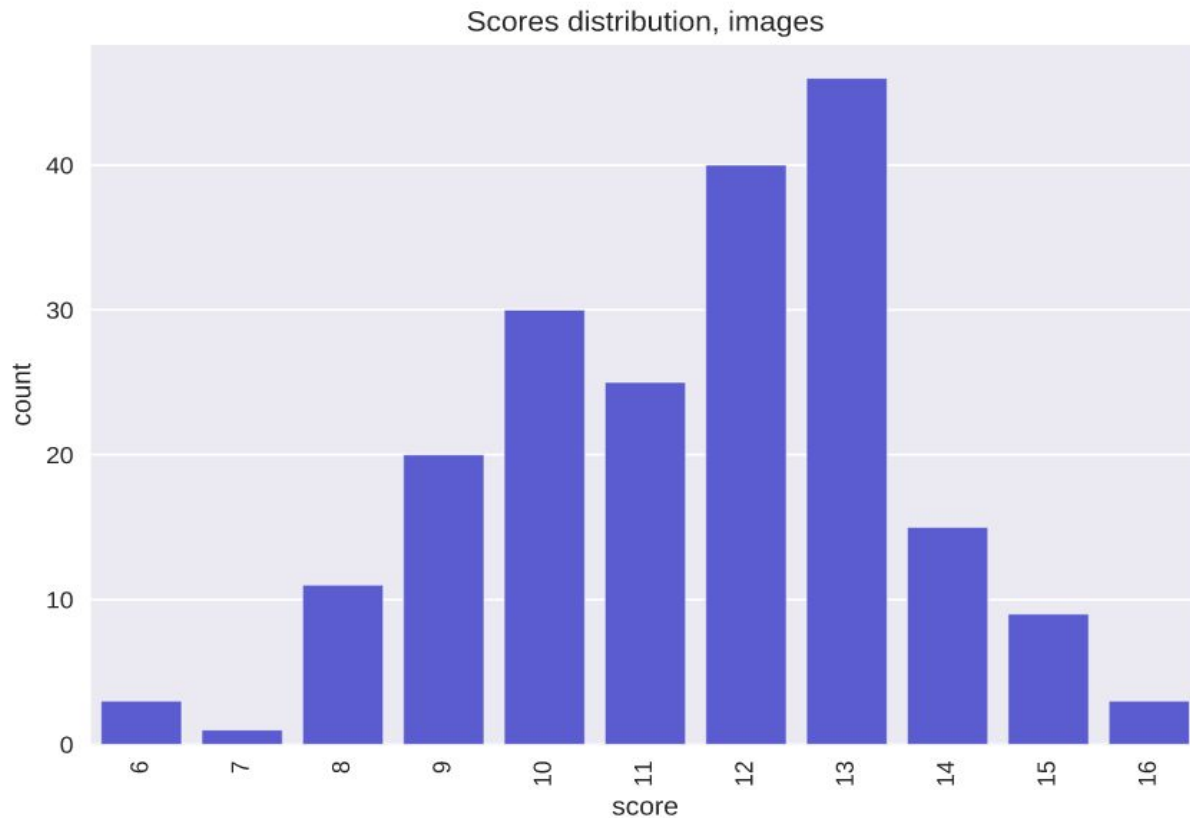
- Images - 16 questions
 - Faces - 8 (4 /4)
 - Modern art - 8 (4 /4)
- Texts - 8 (4 /4)
- Sounds - 8
 - Speech - 4 simple
 - Music - 4 simple
- Age
- Gender
- Country
- Education level
- Experience with AI
- Experience with similar tests
- English level (for texts & sounds)
- Music experience (for sounds)

Responses

- images - 204
- texts - 90
- sounds - 64

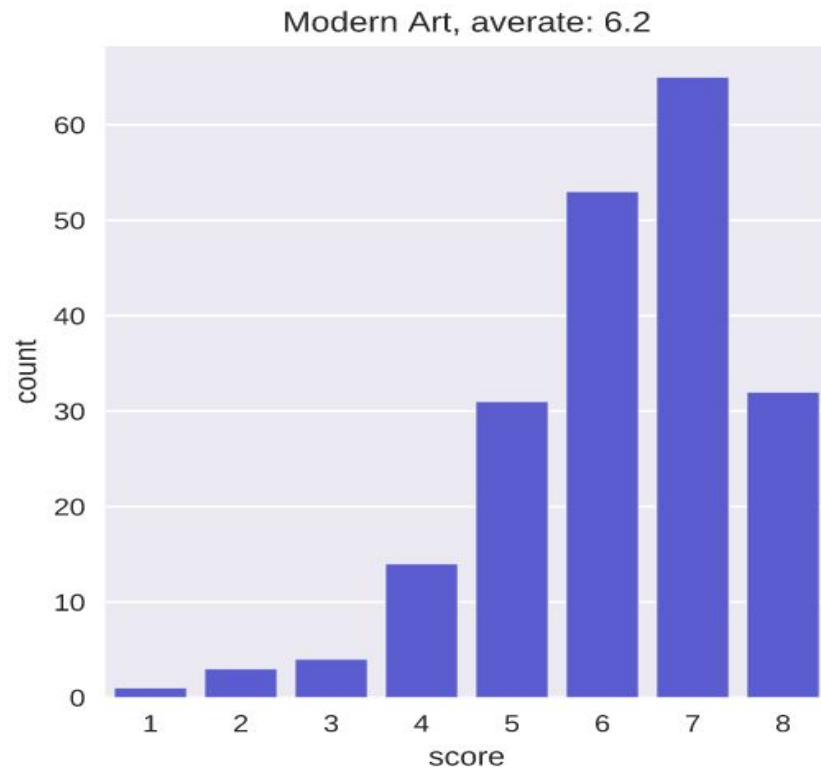
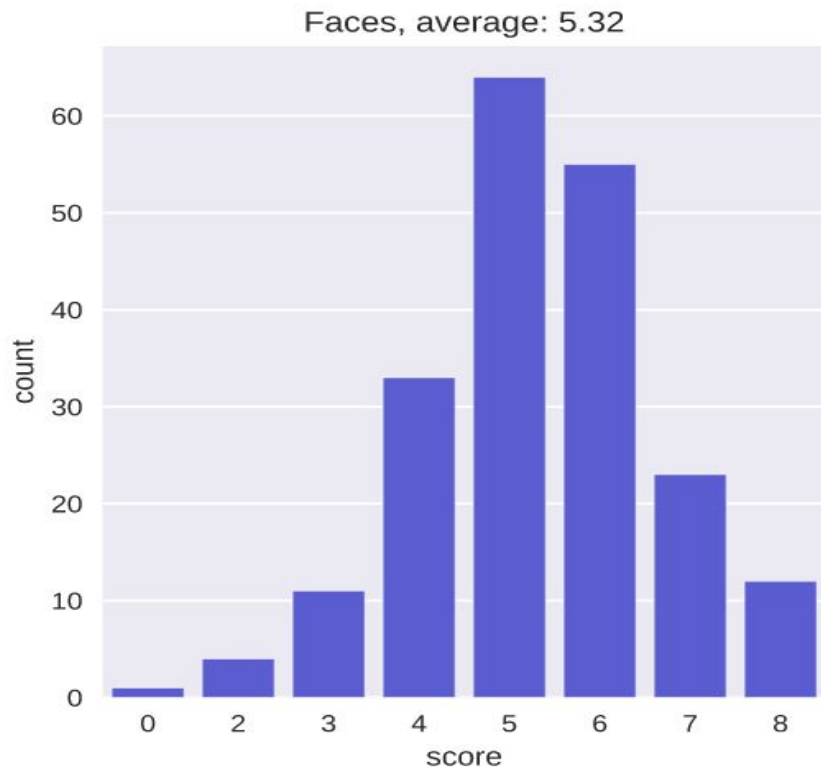


General score distribution - Images



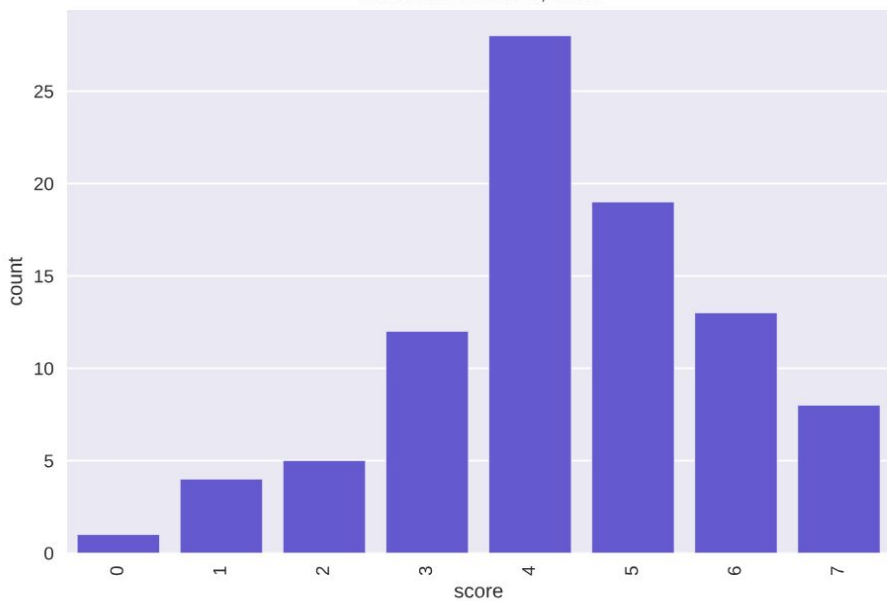
Faces vs Modern art (images)

Scores distribution, images

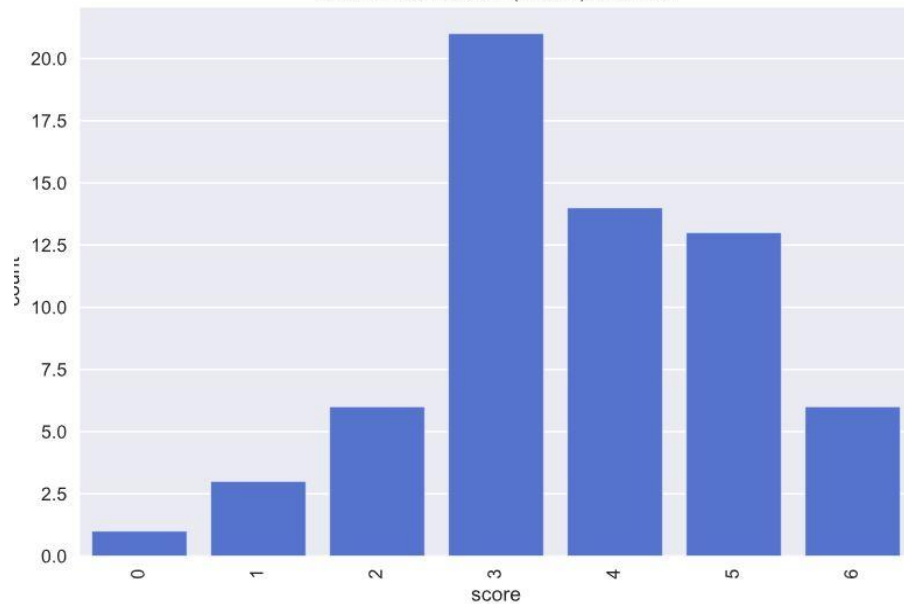


General score distribution (texts & sounds)

Scores distribution, texts



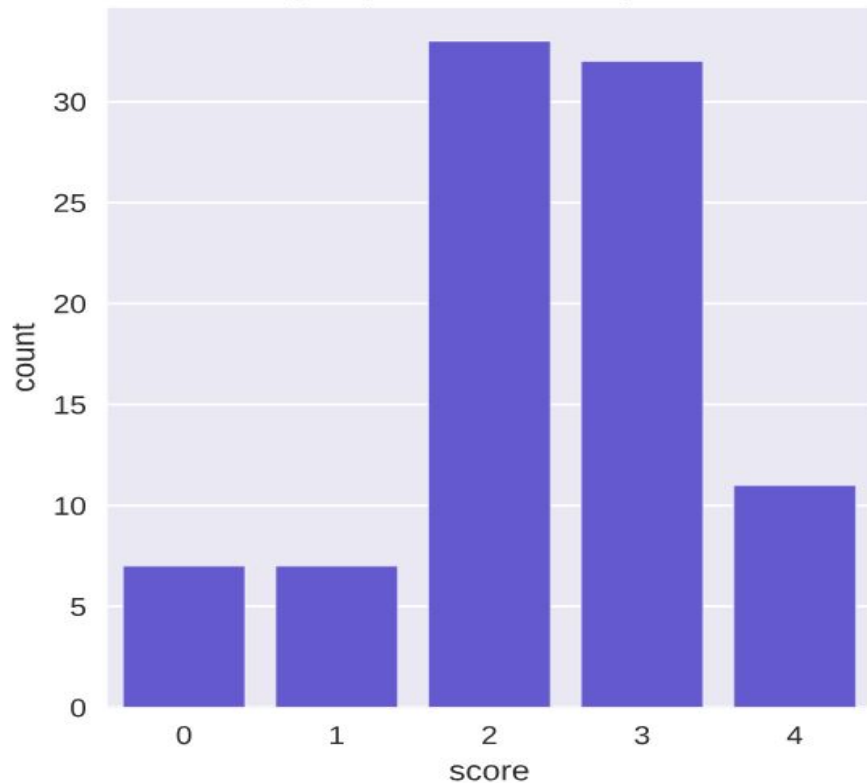
Scores distribution (max 8), sounds



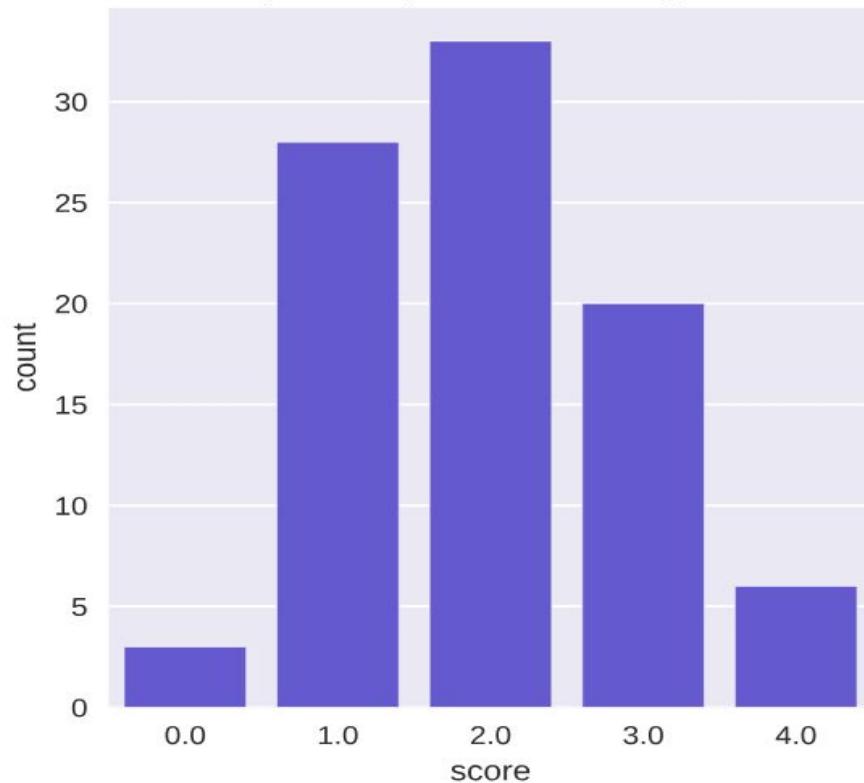
Simple vs Comparison (texts)

Scores distribution, texts

Simple questions, average: 2.37

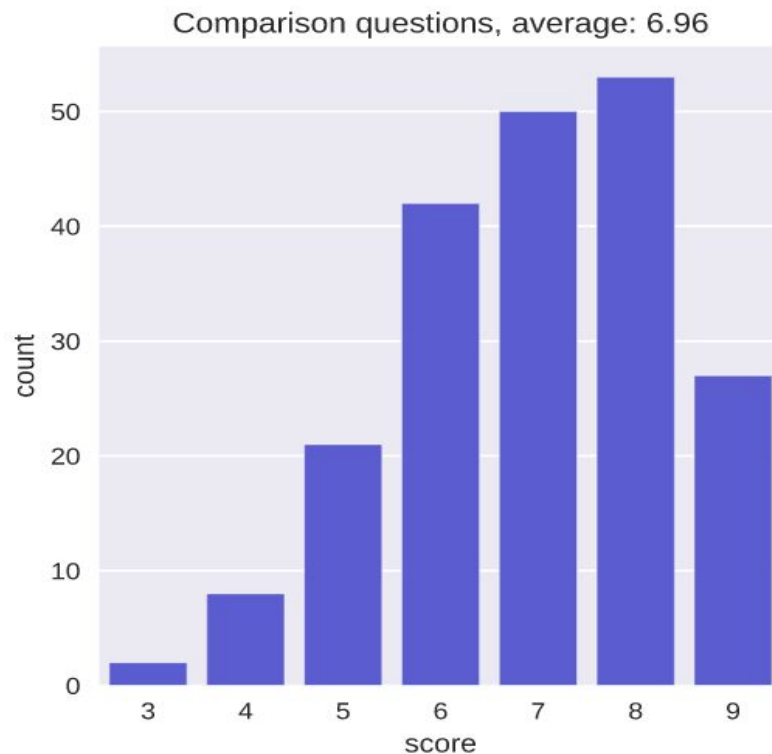
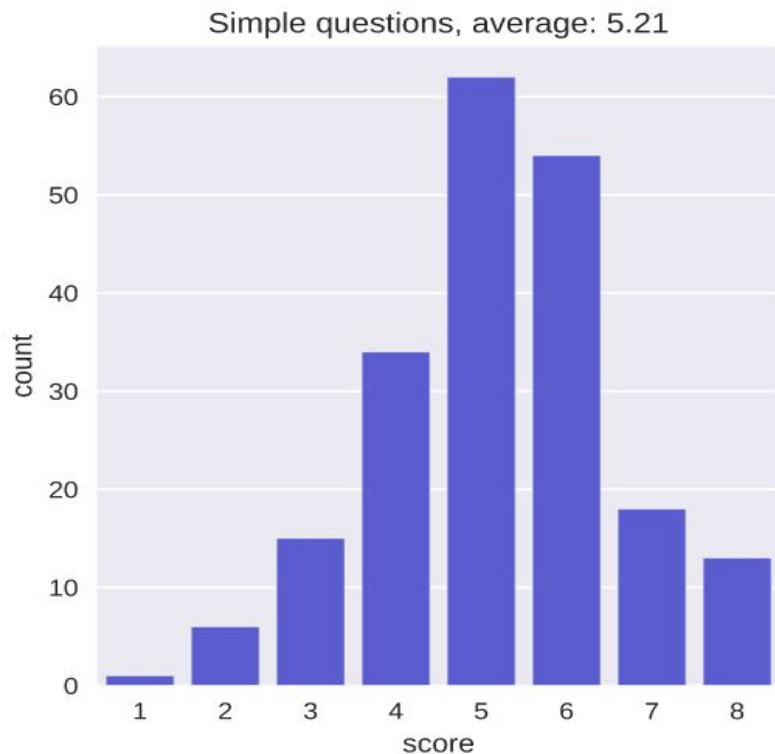


Comparison questions, average: 1.98

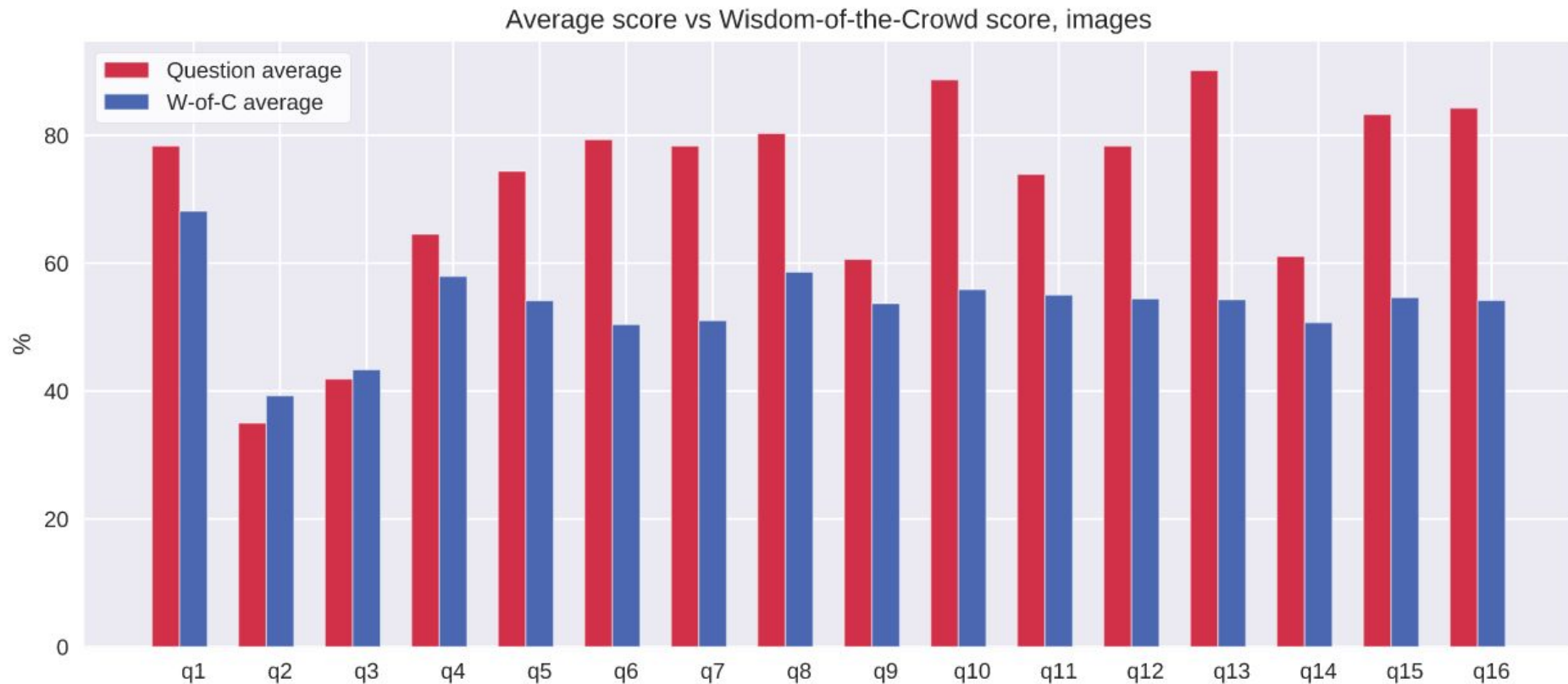


Simple vs Comparison (images)

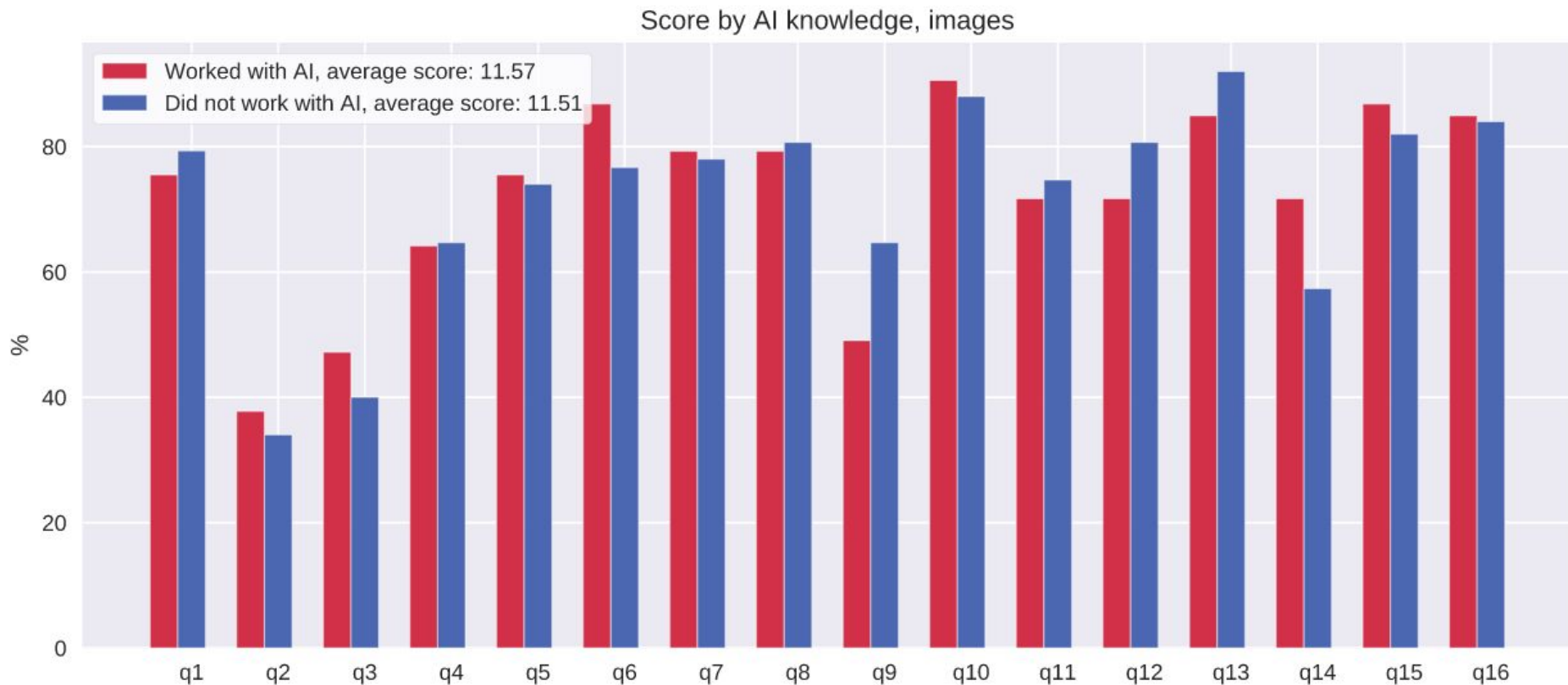
Scores distribution, images



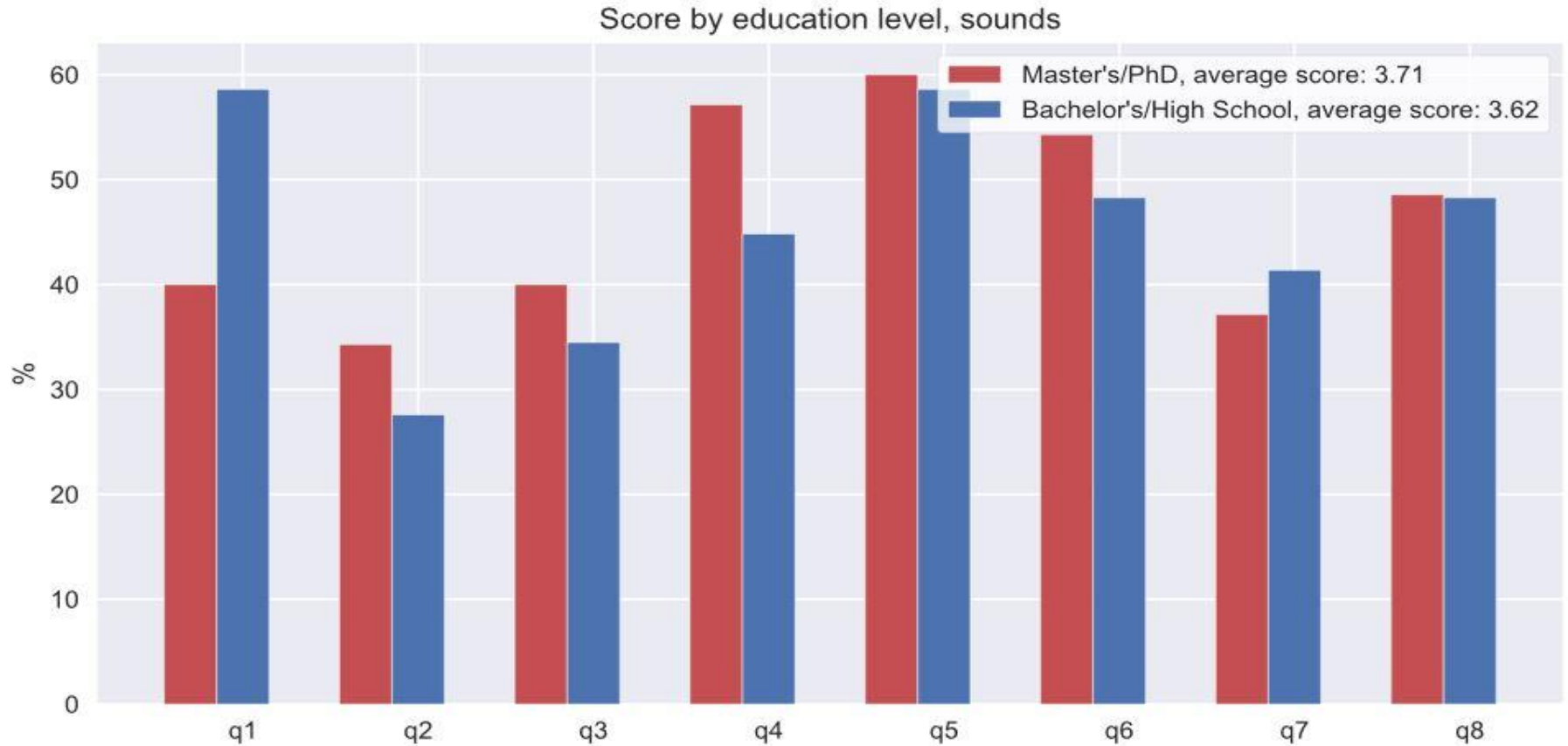
Wisdom of Crowd (images)



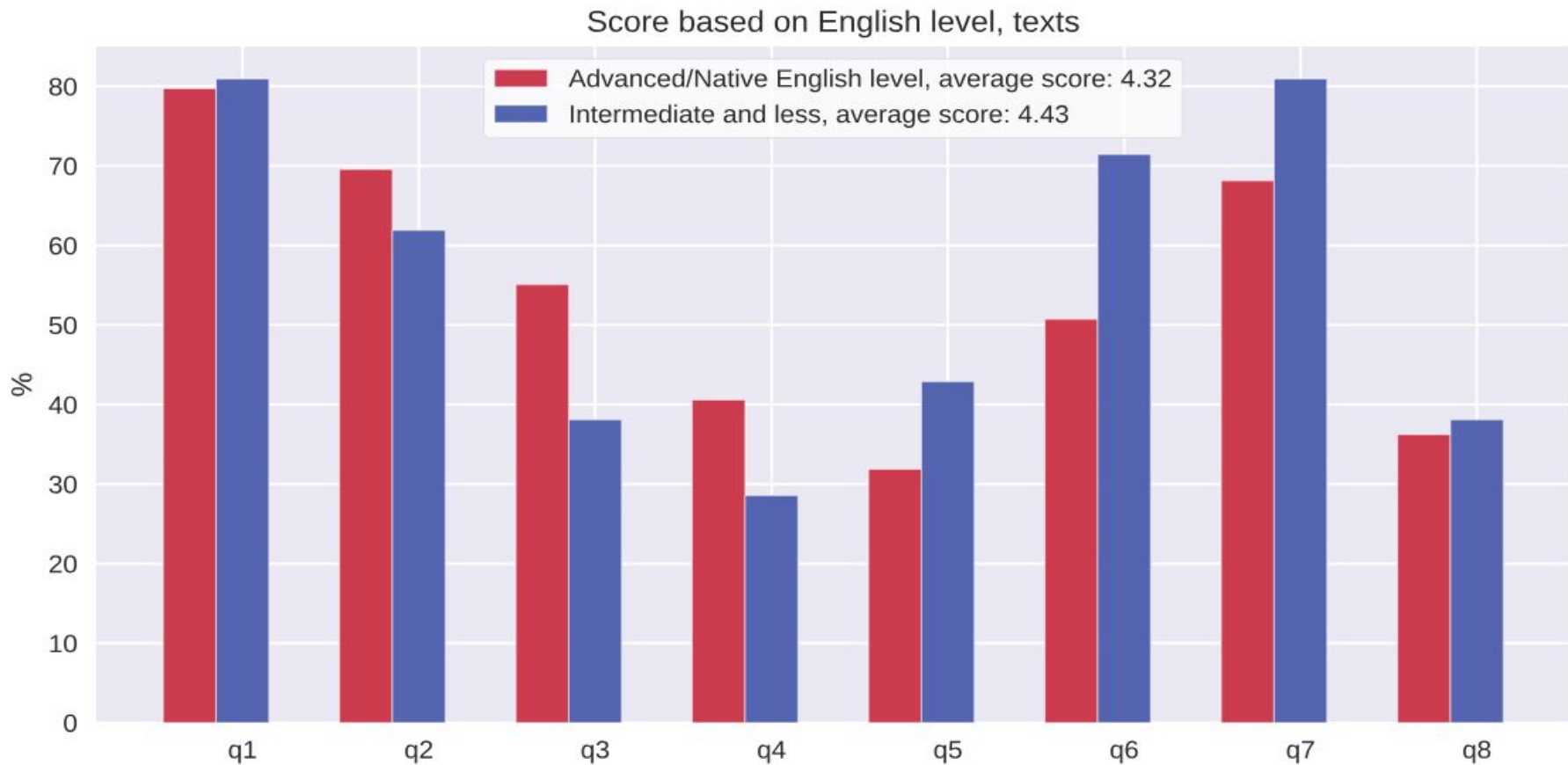
AI experience (images)



Education level (sounds)

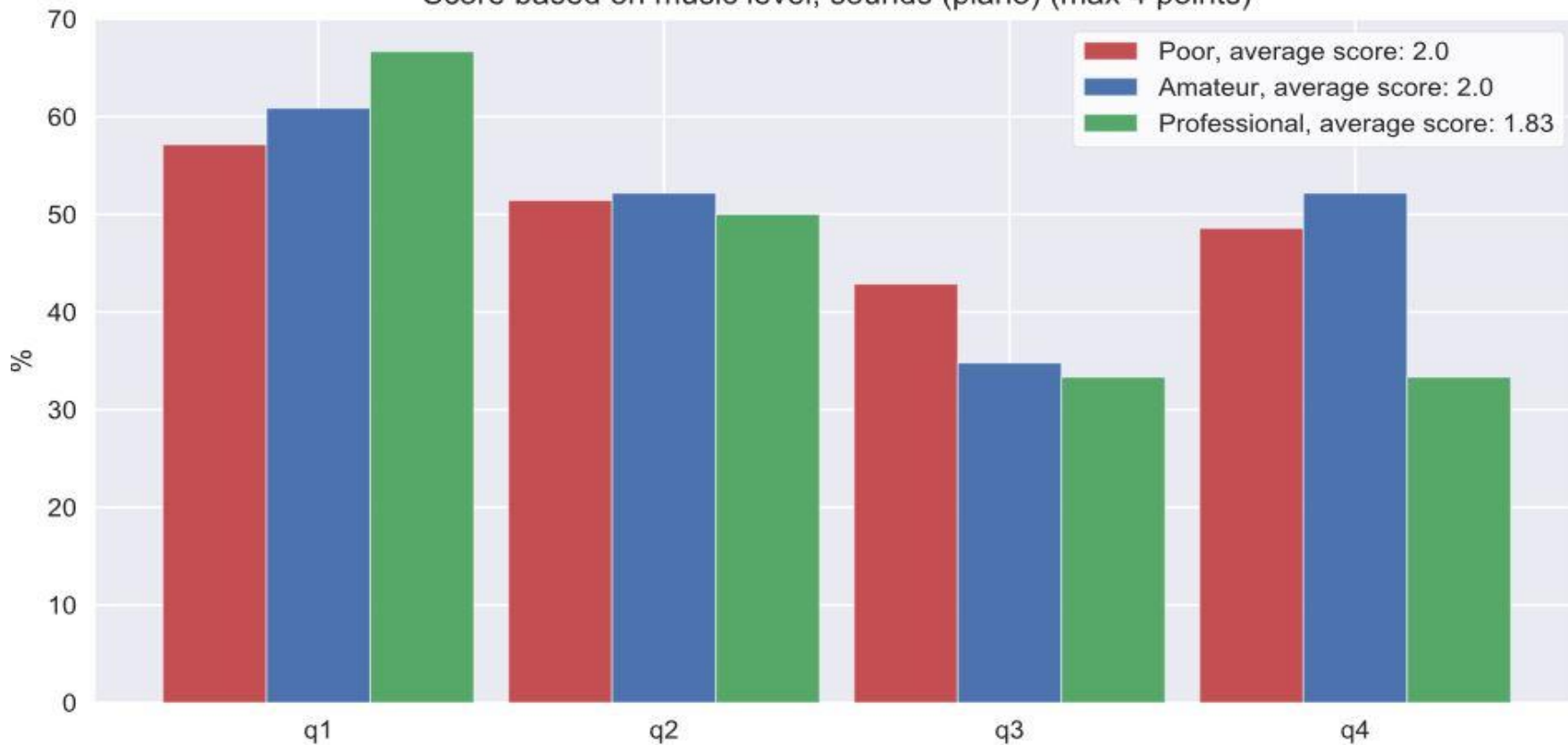


English level (texts)



Music experience (sounds)

Score based on music level, sounds (piano) (max 4 points)



Conclusions

- Demographic factors - not significant
- Comparison - easier for images but not for texts
- Wisdom of crowd - probably answered by random
- Images - easier to recognise

Thank you for attention!