



BoulderChroma hackaTUM 2019

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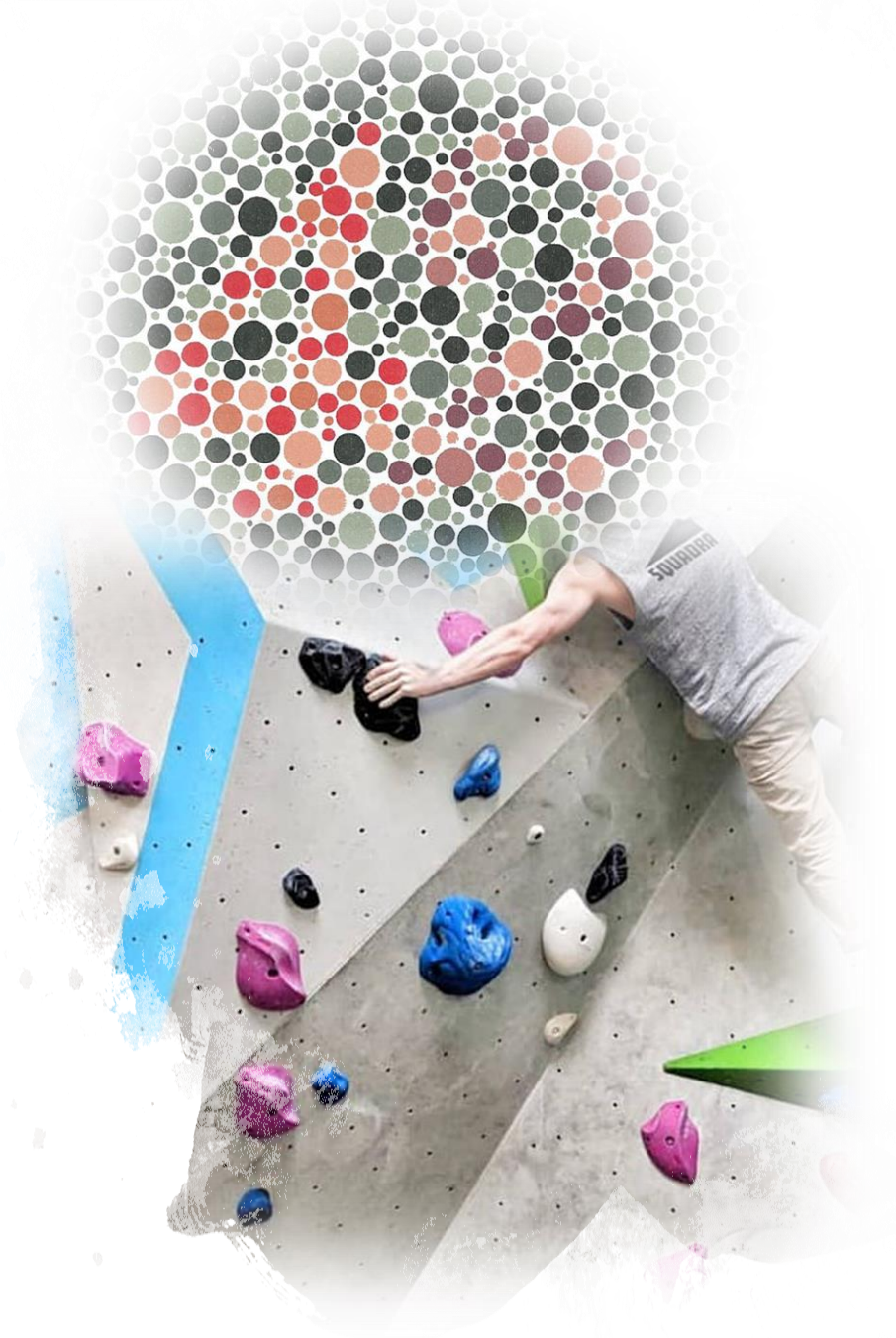
Fabian Helfert

Bouldering

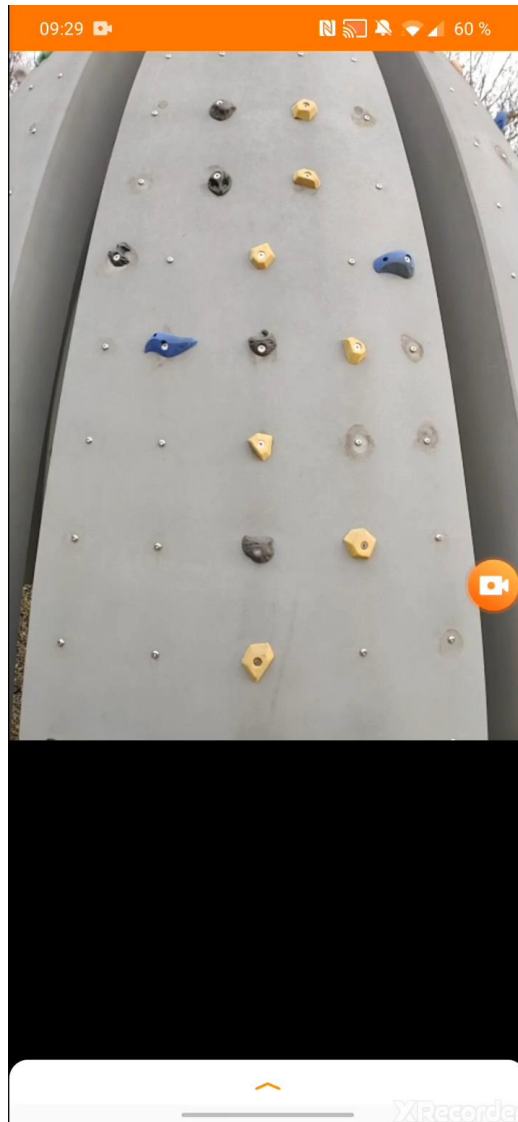
Climb a route to the top

- Don't fall down
- Use only one color!

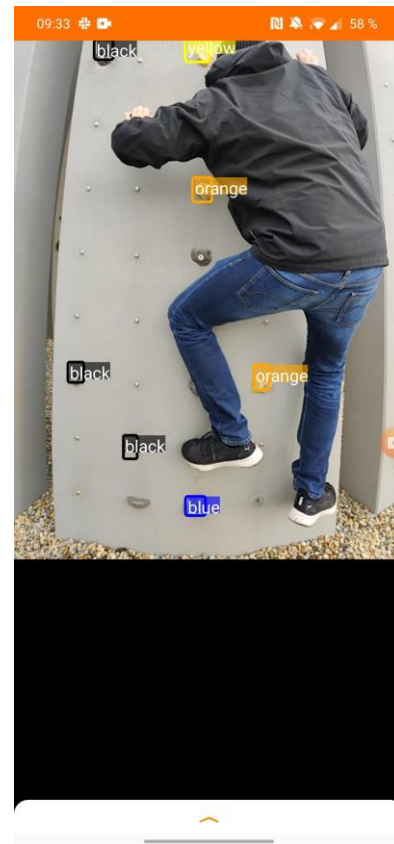
Sounds simple?



Video



Impressions



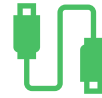
Challenges



No Training Data



**Detection of small
objects**



**Integration of
Tensorflow Light on
Android**



**Reasonable
Performance**

What we learned



Utilizing Microsoft Azure
for computer vision tasks
and machine learning



Augmented Reality



App Development

What's next



Improve image detection even further

Slicing on prediction



Detect climbers

Works in our tests



Use Azures text-to-voice service for advices