# SOCIAL SIMULATION

Kilian Theil
Chair of Artificial Intelligence
Data and Web Science Group
2 March 2021



## INTRODUCTION



Kilian Theil
PhD student @Chair of Al



**Prof. Heiner Stuckenschmidt**Head of the Chair of Al



### IN THIS PROJECT, YOU'LL ...

- ... build a **simulation model** mirroring the **car traffic of Mannheim** city in NetLogo
- ... implement a **dynamic pricing** mechanism for parking space & simulate its effects on the **socio-economic mixup**



#### **NETLOGO PROTOTYPE**

- The participants of our Master's **seminar 2020** already developed a **prototype** in **NetLogo**:
  - Madeleine Aziz, Jens Daube, Paul Exner, Jakob Gutmann, Jonas Klenk, and Aamod Vyas
- You will build upon this protoype and enhance it will geospatial data of the city



Tools Zoom Tabs Help

### **FACTSHEET**

- Title: "Social Simulation"
- Contact: kilian@informatik.uni-mannheim.de
- Participants: 5 to 10
- Requirements: intermediate Python or Java
- Suitable for MMDS: yes



