On a blustery autumn evening five old friends met in the backroom of one of the city’s oldest and most private clubs. Each had traveled a long distance — from all corners of the world — to meet on this very specific day… October 2, 1900 — 28 years to the day that the London eccentric, Phileas Fogg accepted and then won a £20,000 bet that he could travel Around the World in 80 Days.

When the story of Fogg's triumphant journey filled all the newspapers of the day, the five attended University together. Inspired by his impetuous gamble, and a few pints from the local pub, the group commemorated his circumnavigation with a more modest excursion and wager – a bottle of good claret to the first to make it to Le Procope in Paris.

Each succeeding year, they met to celebrate the anniversary and pay tribute to Fogg. And each year a new expedition (always more difficult) with a new wager (always more expensive) was proposed. Now at the dawn of the century it was time for a new impossible journey. The stakes: $1 Million in a winner-takes-all competition. The objective: to see which of them could travel by rail to the most cities in North America — in just 7 days. The journey would begin immediately…

Ticket to Ride is a cross-country train adventure. Players compete to connect different cities by laying claim to railway routes on a map of North America.

For 2 - 5 players ages 8 and above
30 - 60 minutes

Patrick Schäfer
patrick.schaefer@hu-berlin.de

Semesterprojekt: Implementierung eines Brettspiels, WS 18/19
Agenda

• Today, 13:15
  – Competition
  – Lehrevaluation
  – Präsentation Semesterprojekte
Questions

• Some bugs were found by you. Thank you.

• Updated: Benchmark AI and Shell-Script (also linked on the webpage):
  – https://box.hu-berlin.de/f/5b76e7c0f9084980ac63/?dl=1
Competitors

- Team Black: AI-black
- Team Red: MaJa+ToM
- Team Blue: Blue
- Team Green: SimpleAgent
## Wie sind die KI-Spieler implementiert

<table>
<thead>
<tr>
<th>Programmiersprache</th>
<th>Ki-Idee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team Green</td>
<td>C#</td>
</tr>
<tr>
<td></td>
<td>3 Zielkarten behalten</td>
</tr>
<tr>
<td></td>
<td>Zielkarten erfüllen</td>
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<tr>
<td></td>
<td>Nicht nachziehen</td>
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<tr>
<td>Team Blue</td>
<td>C#</td>
</tr>
<tr>
<td></td>
<td>Zielkarten ziehen</td>
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<tr>
<td></td>
<td>Wagenkarten ziehen</td>
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<tr>
<td></td>
<td>Strecke bauen</td>
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<tr>
<td>Team Red</td>
<td>C#</td>
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<tr>
<td></td>
<td>Günstigsten Zielkarten behalten (am wenigsten Punkte)</td>
</tr>
<tr>
<td></td>
<td>Karten ziehen</td>
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<tr>
<td></td>
<td>Irgendeine Strecke bauen</td>
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<tr>
<td>Team Black</td>
<td>C#</td>
</tr>
<tr>
<td></td>
<td>One Step Agent</td>
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<tr>
<td></td>
<td>2 Zielkraten behalten</td>
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<tr>
<td></td>
<td>Erfüllen von Zielkraten</td>
</tr>
<tr>
<td></td>
<td>Zielkarten nachziehen</td>
</tr>
</tbody>
</table>
Vorrunde

Team Black: AI-black
Team Red: MaJa+ToM
Team Blue: Blue
Team Green: SimpleAgent
Vorrunde
Vorrunde

Team Black: AI-black

Team Red: MaJa+ToM
Vorrunde

Team Black: AI-black

Team Red: MaJa+ToM

==================== ( Red ) ======================
AVG Longest Route: 21.0
AVG Score: 28.4
Winrate: 0.0%.
AVG Claimed Tickets: 0.2
AVG Not Claimed Tickets: 2.1

==================== ( Black (Winner) ) ======================
AVG Longest Route: 24.1
AVG Score: 98.6
Winrate: 100.0%.
AVG Claimed Tickets: 2.7
AVG Not Claimed Tickets: 0.7
Vorrunde

Team Blue : Blue

Team Green : SimpleAgent
Vorrunde

Team Blue:
Blue

Team Green:
SimpleAgent

====================(  Blue )====================
AVG Longest Route: 8.2
AVG Score: -265.7
Winrate: 0.0%
AVG Claimed Tickets: 1.2
AVG Not Claimed Tickets: 25.3

====================(  Green (Winner) )====================
AVG Longest Route: 23.8
AVG Score: 122.9
Winrate: 100.0%
AVG Claimed Tickets: 3.0
AVG Not Claimed Tickets: 0.0
Finale

Platz 3: Team Blue: Blue

Finale: Team Black: AI-black

Team Red: MaJa+ToM

Team Green: SimpleAgent
Kleines Finale

Ticket To Ride
Team Black Edition
Spiel um Platz 3

Team Blue: Blue

Team Red: MaJa+ToM
Spiel um Platz 3

Team Blue : Blue

AVG Longest Route: 9.6
AVG Score: -286.3
Winrate: 0.0%
AVG Claimed Tickets: 1.4
AVG Not Claimed Tickets: 26.3

Team Red : MaJa+ToM

AVG Longest Route: 28.2
AVG Score: 46.4
Winrate: 100.0%
AVG Claimed Tickets: 0.5
AVG Not Claimed Tickets: 1.8
Finale

Ticket To Ride
Team Black Edition
Finale

Team Black: AI-black

Team Green: SimpleAgent
Finale

Team Black : AI-black

Team Green : SimpleAgent

==================== (Black (2.Platz)) =====================
AVG Longest Route: 23.8
AVG Score: 76.8
Winrate: 20.0%
AVG Claimed Tickets: 2.9
AVG Not Claimed Tickets: 1.1

==================== (Green (1.Platz)) ======================
AVG Longest Route: 24.6
AVG Score: 95.1
Winrate: 80.0%
AVG Claimed Tickets: 2.5
AVG Not Claimed Tickets: 0.5
Platzierungen

1. Team Green: SimpleAgent
2. Team Black: AI-black
3. Team Red: MaJa+ToM
4. Team Blue: Blue
## KI-Challenge: Punktestand

<table>
<thead>
<tr>
<th>Turnier am 14.1. (1-1-2)</th>
<th>Team Green</th>
<th>Team Blue</th>
<th>Team Red</th>
<th>Team Black</th>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>Turnier am 21.1. (1-2-3)</td>
<td>3</td>
<td>-</td>
<td>1</td>
<td>2</td>
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<td>Turnier am 28.1. (2-3-5)</td>
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<tr>
<td>Turnier am 4.2. (3-5-8)</td>
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<tr>
<td>Turnier am 11.2. (5-8-13)</td>
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<tr>
<td>Gesamt</td>
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</table>
# 2nd Milestone Goals

<table>
<thead>
<tr>
<th></th>
<th>Team Green</th>
<th>Team Blue</th>
<th>Team Red</th>
<th>Team Black</th>
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</thead>
<tbody>
<tr>
<td>60 Punkte im Schnitt</td>
<td>88.6 (21.1.)</td>
<td>✘ -277.6 (21.1)</td>
<td>✘ 22.2</td>
<td>81.36 (21.1.)</td>
</tr>
<tr>
<td>80 Punkte im Schnitt</td>
<td>88.6 (21.1.)</td>
<td>✘</td>
<td>✘</td>
<td>81.36 (21.1.)</td>
</tr>
<tr>
<td>100 Punkte im Schnitt</td>
<td>✘</td>
<td>✘</td>
<td>✘</td>
<td>✘</td>
</tr>
</tbody>
</table>
Free For All - Turnier
Projekttag

• Für den Projekttag haben wir jetzt als Termin festgelegt:
  – Donnerstag, 11.4.2019, 14-17 Uhr, im Humboldt-Kabinett.

• Präsentation des Semesterprojekts
• Pro Team ein Teammitglied, das die Milestones präsentiert
• Zuhörerkreis: einige Schulen (Grund- und Leistungskurse)