

Cluemate



Agenda

- Was ist Cluemate
- Programmaufbau
 - Hauptschleife
 - Model
 - Views
 - Actions
- Ausblick



Was ist Cluemate?

- Hilft beim Spielen von Cluedo
- In SWI-Prolog geschrieben => Logische Programmierung
- Open Source
- Iterative Entwicklung =>
 Lauffähige Version nach jeder

 Iteration





Programmaufbau

Startdatei cluemate

Hauptschleife src/cluemate.pl

Model src/model/*.pl

Views src/views/*.pl

Actions src/actions/*.pl



Hauptschleife





```
start_game(Game, NewGame) :-
    set_started_of_game(true, Game, NewGame).
```





```
get_person_name(Person, Name) :-
    person_name(Person, Name).
```



View

```
:- use_module('../model/game').
:- use_module('../model/rooms').
:- use_module('../model/persons').
:- use_module('../model/weapons').
:- use_module('actions').
:- use_module('util').
render_game(Game, Flash) :-
        tty_clear,
        nl,
        tab(2), writeln('C L U E M A T E'),
        render_line('-'),
        tab(2), writeln(Flash),
        render_line('-'),
        nl,
        render_game_status(Game),
        render_current_room(Game),
        nl,
        render_available_items(Game),
        render_suspicious_items(Game),
        render_suggestions(Game),
        render_proven(Game),
        render_actions(Game),
        nl.
```



View

CLUEMATE	
You have just created a new game!	
The game is not started. You have to add at least two persons, two weapons and two rooms to be able to start the game	
AVAILABLE Persons: Weapons: Rooms:	
Available actions: ap => Add a person aw => Add a weapon ar => Add a room e => End the game x => Exit	
Please enter the next action:	





offer_game_action('x', Game, 'Exit').



```
execute_game_action('x', Game, Game, 'Thanks for using Cluemate and Goodbye!', true) :-
!.
```





```
execute_game_action('s', Game, NewGame, 'You have just started the game!', false) :-
    can_start_game(Game),
    !,
    start_game(Game, NewGame).
```



execute_game_action(_, Game, Game, 'You have entered an unknown or invalid action!', false).



Ausblick

- Bessere Benutzereingabe
- Erfassung von tatsächlichen Spielern und Sitzpositionen
- Erfassung gestellter Fragen
- Anzeige eines Spielbretts
- Erfassung der Spielfigurpositionen



Vielen Dank...

- …für die Aufmerksamkeit!
- Noch Fragen?
- Quellen:
 - http://de.wikipedia.org/wiki/Cluedo
 - https://github.com/ perprogramming/cluemate/



