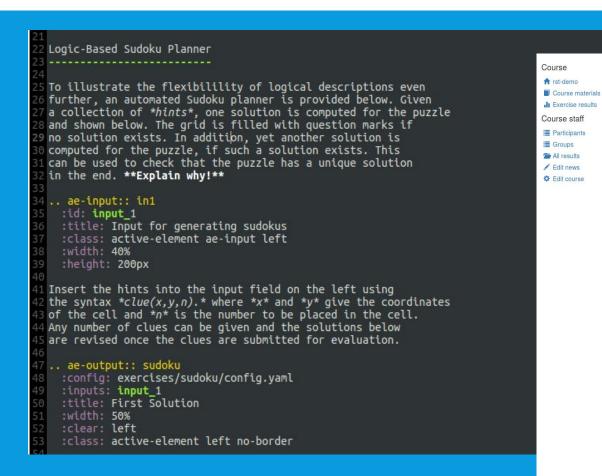
A+ ACTIVE ELEMENT

Roosa Piitulainen

MOTIVAATIO

- Työkalut helposti käytössä
- Tulosten visualisointi
- Interaktiivisuus
- Konseptien demoaminen

KÄYTTÖ



Logic-Based Sudoku Planner

To illustrate the flexibility of logical descriptions even further, an automated Sudoku planner is provided below. Given a collection of hints, one solution is computed for the puzzle and shown below. The grid is filled with question marks if no solution exists. In addition, yet another solution is computed for the puzzle, if such a solution exists. This can be used to check that the puzzle has a unique solution in the end. Explain why!

Input for generating sudokus

clue(1,3,2), clue(1,9,1),
clue(2,2,7), clue(2,5,3),
clue(3,5,4), clue(3,7,2),
clue(4,4,2),
clue(5,7,4), clue(5,8,3),
clue(6,1,1), clue(6,3,5), clue(6,4,6),
clue(7,5,7),
clue(8,2,3),
clue(9,4,1), clue(9,9,3).

Insert the hints into the input field on the left using the syntax clue(x,y,n), where x and y give the coordinates of the cell and n is the number to be placed in the cell. Any number of clues can be given and the solutions below are revised once the clues are submitted for evaluation.

Submi

First Solution

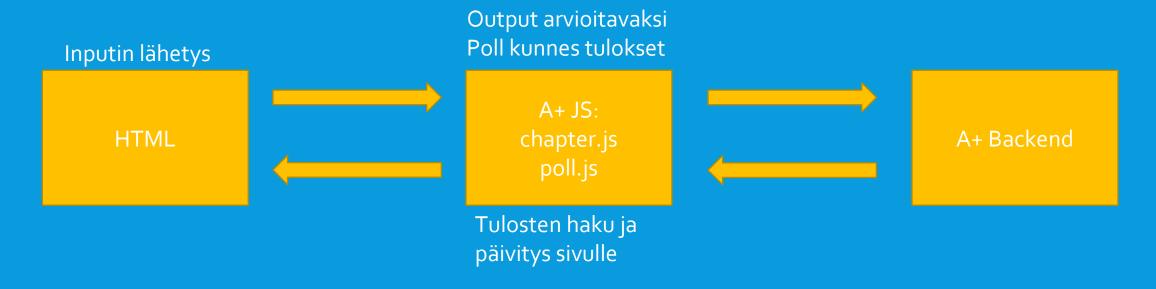
1	4	6	5	9	7	2	8	3
7	5	8	6	3	2	4	1	9
3	9	2	1	4	8	6	5	7
5	2	1	4	7	3	8	9	6
6	3	4	8	1	9	7	2	5
9	8	7	2	5	6	3	4	1
2	1	3	7	8	5	9	6	4
8	7	5	9	6	4	1	3	2
4	6	9	3	2	1	5	7	8

Second Solution

1	4	6	5	9	7	2	8	3
7	5	8	6	3	2	4	1	9
3	9	2	1	4	8	6	5	7
5	2	1	4	7	3	9	6	8
6	3	4	8	1	9	7	2	5
9	8	7	2	5	6	3	4	1
2	1	3	7	6	5	8	9	4
8	7	5	9	2	4	1	3	6
4	6	9	3	8	1	5	7	2

TOIMINNALLISUUS

- Output ~ A+ tehtävä
- Erilliset input-elementit
- Toiminnallisuus Javascriptillä



JATKOKEHITYS

- Interaktiivisempi input
- Erilaiset outputformaatit
- Output-elementtien "ketjutus"
- Virallisesti osaksi A+

KYSYMYKSIÄ?