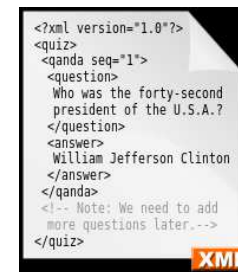
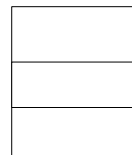
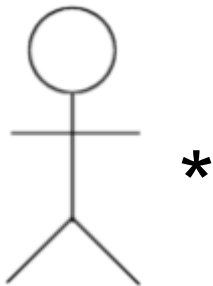
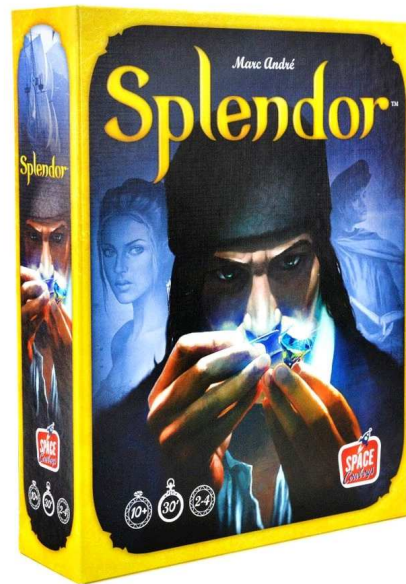


Tutored Project



Splendor board game

- 2014
Nominated for the 2014 Spiel des Jahres (Game of the Year)
- Designer: Marc André
Artist: Pascal Quidault
Publisher: Space Cowboys, Asmodee
Players: 2 to 4
Age range: 10 and up
Playing time: 30 minutes
Skill(s) required: Resource management
- Rules:
http://www.spacecowboys.fr/img/games/splendor/details/rules/Rules_Splendor_US.pdf
https://www.youtube.com/watch?v=HlOxEk3_yuc
- General references:
[https://en.wikipedia.org/wiki/Splendor_\(board_game\)](https://en.wikipedia.org/wiki/Splendor_(board_game))
<http://spacecowboys.fr/splendor/language:eng>
<https://www.daysofwonder.com/online/en/splendor/>
<https://boardgamegeek.com/boardgame/148228/splendor>

Language: Python 3.x

- [https://en.wikipedia.org/wiki/Python_\(programming_language\)](https://en.wikipedia.org/wiki/Python_(programming_language))
- Multiple programming paradigms: object-oriented, imperative and functional programming or procedural styles
- It features a dynamic type system and automatic memory management and has a large and comprehensive standard library
- Python Enhancement Proposals

PEP 0008 -- Style Guide for Python Code

Python coders from non-English speaking countries: please write your comments in English, unless you are 120% sure that the code will never be read by people who don't speak your language.

- <https://wiki.python.org/moin/TkInter>
- <https://wiki.python.org/moin/PythonXml>;
<https://docs.python.org/3.4/library/xml.etree.elementtree.html>

You not suppose to use or to return:

- No integrated development environment:
<https://wiki.python.org/moin/IntegratedDevelopmentEnvironments>
- Neither revision control software (GIT, SVN, etc.) nor continuous integration (Jenkins, etc.)
- No software development method (waterfall development, prototyping, incremental development, iterative and incremental development, spiral development, rapid application development, agile development, code and fix, lightweight methodologies, etc.)
- Neither UML diagram (class, use case, activity, sequence, communication, state machine, etc.) nor design pattern (factory, singleton, composite, state, strategy, model-view-controller)
- No project management
- Neither algorithms of AI nor code nor tests
- Neither report nor (design, code, etc.) documentation

You have to code:

- One human player can face 1 to 3 AI (artificial intelligence)
Each AI has a level (basic or advanced)
- The human player can choose the first to play
- You have to read an XML file describing some elements of the game
- You have to code in Python OOP (Object Oriented Programming)
- You belong to a team of 6 to 8 students chosen by the teacher

Examination

Friday 16th September 2016 (morning):

- From 8:15 am...: the teacher presents the Tutored Project to the jury of teachers and all the students
- ... till 10:05 am: from 10 till 25 minutes (including the presentation and a software demonstration from 5 till 10 minutes) to present your job to a jury; the jury can ask for some questions (up to 15 minutes)
You have to listen to all the other teams!
- From 10:25 am till 12:15 am: each team presents a software demonstration from 10 till 25 minutes to the teacher

Schedule

- The teacher can help you for the rules of the game, object-oriented design, Python OOP and ET and TK, algorithmics ... but won't code for you!
- From Tuesday 6th September 2016 to Thursday 15th September 2016 (8 days): 2 hours with the teacher and 6 hours independant work
- Teams:



ANGLADE ~ JUDE ~ LAXALDE ~ LE GUERN ~
PERNIN ~ SAMIER ~ WALTER ~ WYBRECHT



BARBE ~ BENARD ~ BONNAN ~ CASTERS ~
DEBIERNE—RUSAK ~ JACQUES ~ PIGNON ~
SOURIAU