Artificial Intelligence

*Program Instructions*

This short document contains the simple list of instructions necessary to use the program

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# Packaging

The whole program has been packaged and archived within a single exe file. The technique allows Python scripts, libraries and resources to be compressed in a single file, however this also means that the startup can be slow, as the package and to unzip the resources.

# Running the program exe

1. Double click the exe, and wait for the window to open (might take a few seconds due to unzipping)
2. Select file => Open
3. Select a .cav file
4. Use the buttons on the right to either solve, or step through the execution. When stepping Undo/Redo buttons will become available

# Running/Editing the program from code

### To edit the general code:

* Make sure Python 3.5 or a later version is installed on your system, including pip
* Navigate to the main folder of the project from the command line
* Run **pip install -r /path/to/requirements.txt** to install the dependencies
* Run the app.py script

### To edit the view layer:

* The GUI can edited directly from code (see previous point) OR
* Install Qt Designer from <https://www.qt.io/ide/>
* In the consctructor (\_\_init\_\_ method) of the app class, add: **uic.loadUi('GUI.ui', self)**
* Freely edit the changes to the GUI file

# Compiling the changes/building for prod

* Run pip install pyinstaller, <https://www.pyinstaller.org/>
* Make sure PyQt5 is installed, if it isn’t run **pip install -r /path/to/requirements.txt** to get the dependencies
* Inside the app folder, run **pyuic5 GUI.ui > appGui.py**
* Inside the app folder, run **pyinstaller –onfile app.py**
* The exe file will be in the ./dist folder