# B351:Intro to AI Tutorial on Auto-grader(HW3)

Yang Wang



Overview of the package

Where are the Support files

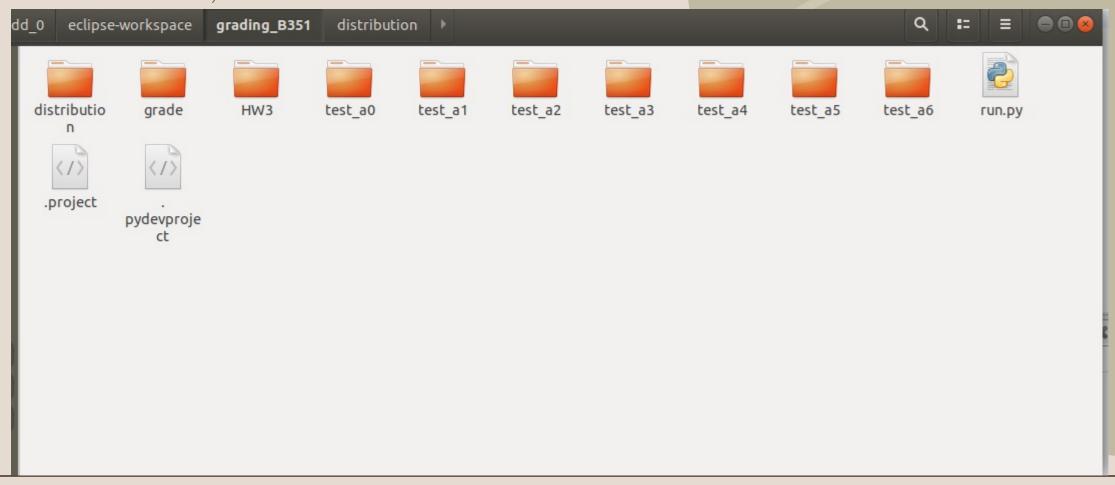
Where to put your a3.py

How to run grader

MISC and If bugs

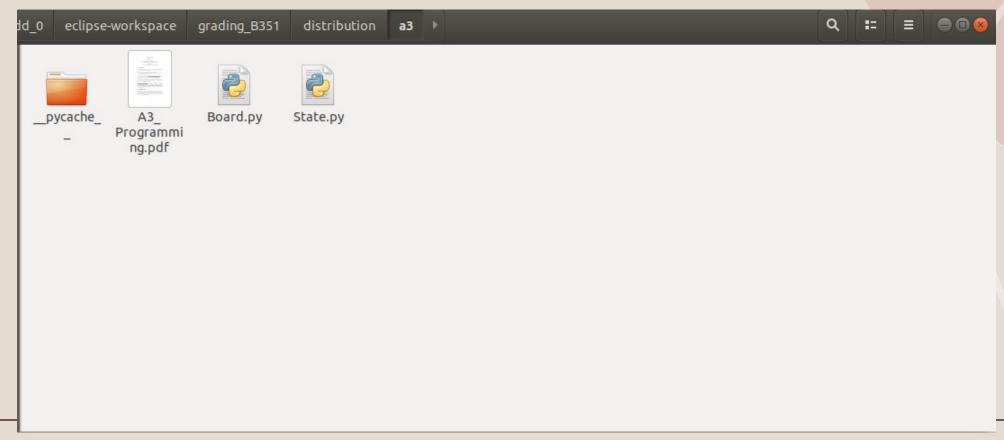
#### Overview of the package

• Unzip the file, you will find it looks like the figure below(and make sure they are all there):



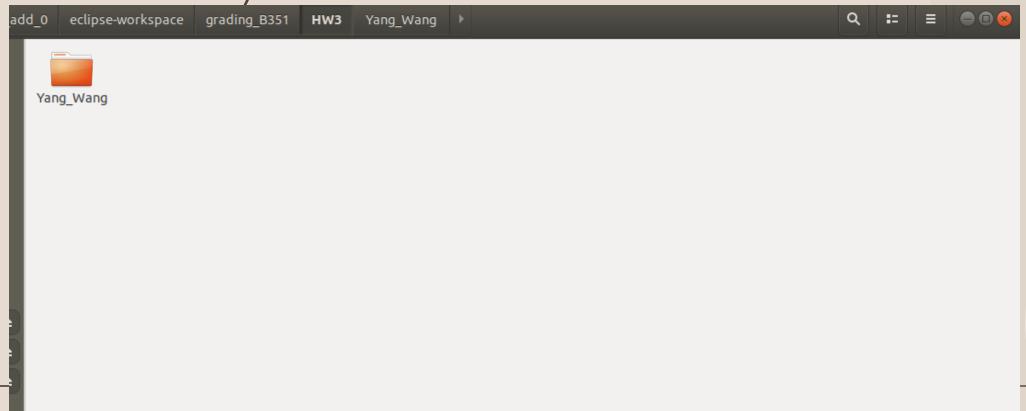
### Where are the Support files:

- Here is the folder (grading\_B351/distribution/a3/) I already put all the support files there, e.g. Board.py and State.py.
- It is all good for run so please don't remove any of them, also please don't put your a3.py file under this folder.



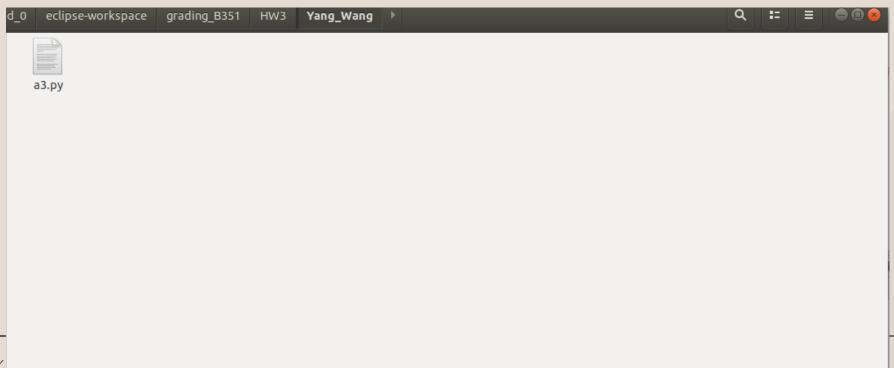
#### Where to put your a3.py

• Follow the path "grading\_B351/HW3/", you will need to create a new folder with your name:

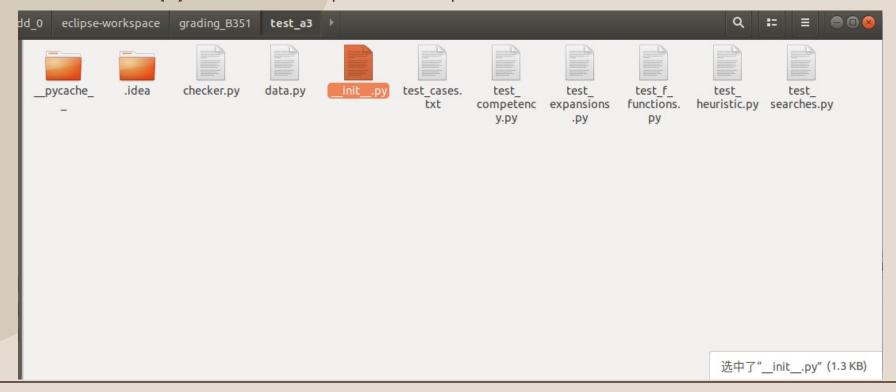


### Where to put your a3.py

• Go into the folder you just created, and put your "a3.py" inside the folder, Note: change your file name to "a3.py", otherwise the grader won't recognize it:



• Following the path "grading\_B351/test\_a3/", you can find the "\_\_init\_\_.py" file and please open it:



- After you open it, we need to focus on two lines there:
  - (1)"sys.path.append()", this is the path for all those support files we mentioned above, and please change the file path according to your local machine.(currently the path inside "sys.path.append()" is for my environment, so you need to change it to yours!)

```
#!/usr/bin/python3
from test expansions import FringeExpansionTester, InformedExpansionTester
from test f functions import UCSFFunctionTester, AStarFFunctionFactoryTester
from test searches import BFSTester, InformedSearchTester
from test heuristic import HeuristicTester
from test competency import CompetencyTester
testSuite = [FringeExpansionTester, BFSTester, UCSFFunctionTester,
    AStarFFunctionFactoryTester, HeuristicTester, InformedExpansionTester, InformedSearchTester, CompetencyTester] #Yang:Here will be all the test functions, so just keep all of them there.
title = 'A3: A* Search' #Yang:Title of your generated HTML file, not important
if name == ' main ':
    import sys
    sys.path.append('/mnt/0c5d37c7-7aa6-4175-a9b1-261568ed4227/eclipse-workspace/grading B351/distribution/a3') #Yang: your directory of the State.py and Board.py
    root folder = '../HW3' #Yang: your directory of the a3.py file, which is the homework file you want to upload.
    folders = [root folder]
    import os
    for i in sorted(os.listdir(root folder)):
        folder = os.path.join(root folder, i)
        if os.path.isdir(folder): folders.append(folder)
    generate html.batchGrade(folders, testSuite, title)
```

20XX

#!/usr/bin/python3

#Vang. The code black is not useful

- After you open it, we need to focus on two lines there:
  - (2) "root\_folder": It is the path for your a3.py, we mentioned above.

```
from test expansions import FringeExpansionTester, InformedExpansionTester
from test f functions import UCSFFunctionTester, AStarFFunctionFactoryTester
from test searches import BFSTester, InformedSearchTester
from test heuristic import HeuristicTester
from test competency import CompetencyTester
testSuite = [FringeExpansionTester, BFSTester, UCSFFunctionTester,
    AStarFFunctionFactoryTester, HeuristicTester, InformedExpansionTester, InformedSearchTester, CompetencyTester] #Yang:Here will be all the test functions, so just keep all of them there.
title = 'A3: A* Search' #Yang: Title of your generated HTML file, not important
if name == ' main ':
    import sys
    from grade import generate html
    sys.path.append('/mnt/0c5d37c7-7aa6-4175-a9b1-261568ed4227/eclipse-workspace/grading B351/distribution/a3') #Yang: your directory of the State.py and Board.py
    root folder = '../HW3' #Yang: your directory of the a3.py file, which is the homework file you want to upload.
    folders = [root folder]
    import os
    for i in sorted(os.listdir(root folder)):
        folder = os.path.join(root folder, i)
        if os.path.isdir(folder): folders.append(folder)
    generate html.batchGrade(folders, testSuite, title)
```

• After the above two lines are all set, then you can simply run "\_\_init\_\_.py" either from your IDE or command line, and no other input parameters are needed.

#### MISC and BUGS:

- Update Rubric for "my\_heuristic": if you make any try that make sense(tried to create your own heuristic function, and also properly implemented), but sadly haven't pass any test steps. Though the auto-grader may give you a 0, we can add back 3 points at most.
- Dispute grade: Please refer to your own grader(email or office-hours), since they know better the situation. And it is also not proper if I frequently regrade/change other graders' work. Thank you for your understanding! : )
- "Import package" bugs. If you encounter any this kind of bugs, please try the backup.zip. If it still doesn't work, let me know.:)

## Thank you

Yang Wang