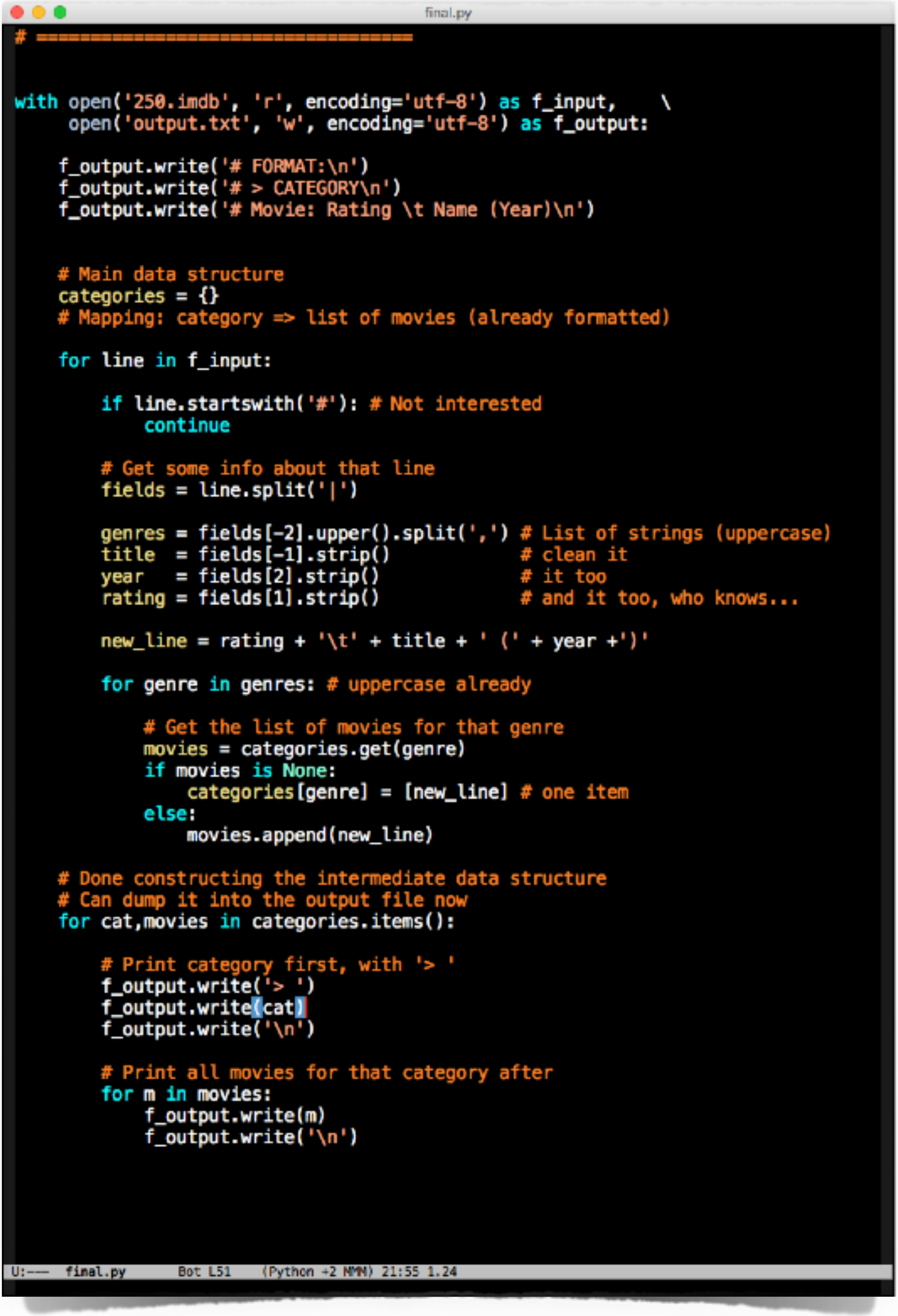
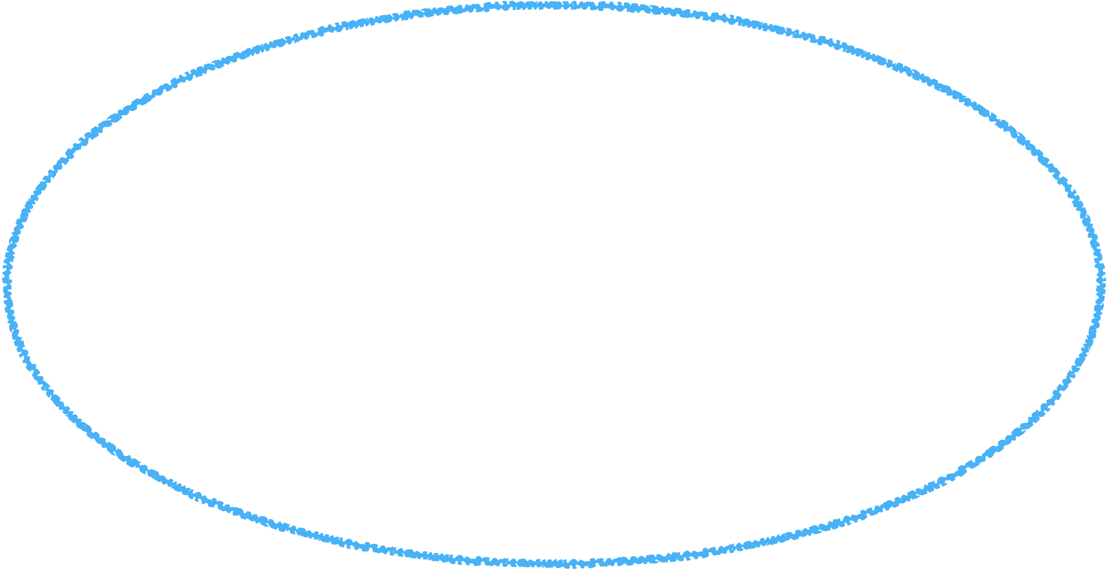
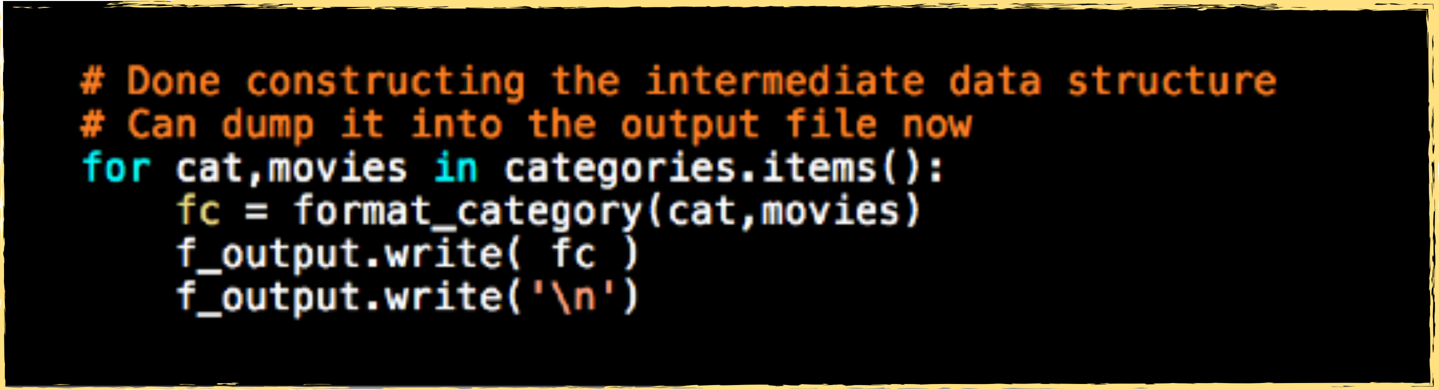
41

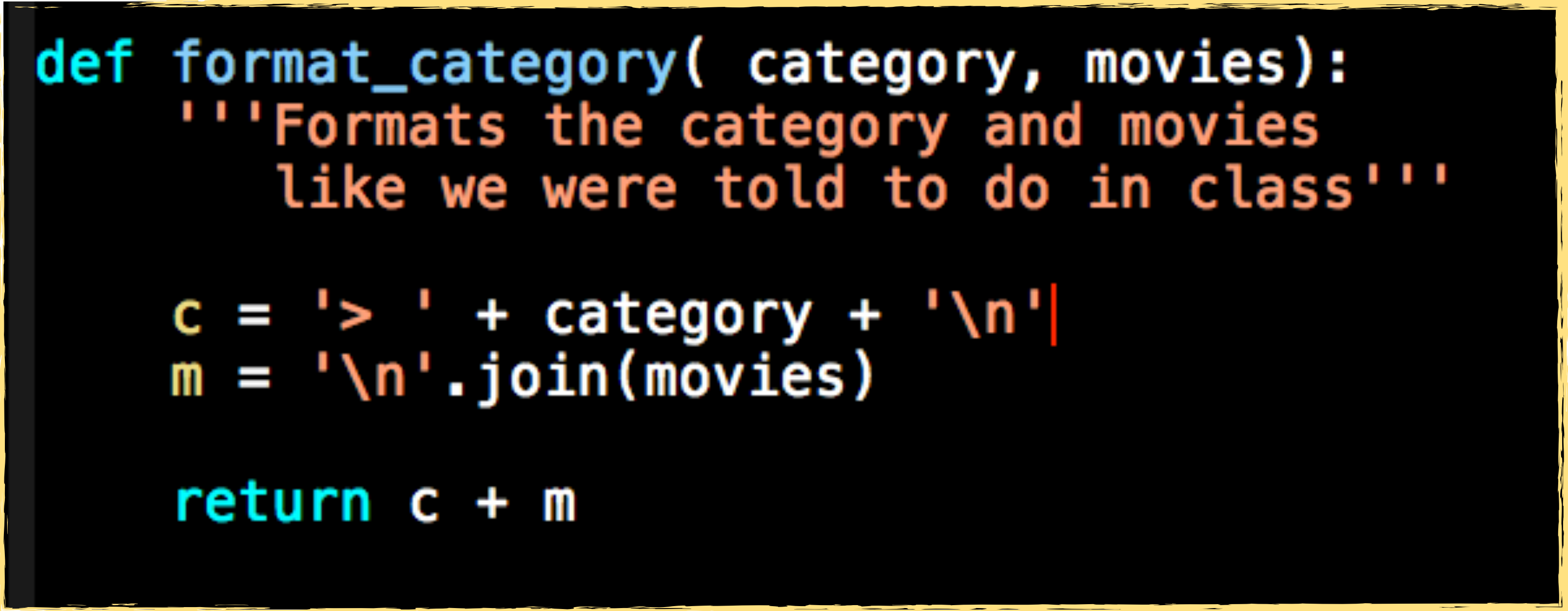


```
# ===================================


with open('250.imdb', 'r', encoding='utf-8') as f_input,     \
     open('output.txt', 'w', encoding='utf-8') as f_output:

    f_output.write('# FORMAT:\n')
    f_output.write('# > CATEGORY\n')
    f_output.write('# Movie: Rating \t Name (Year)\n')


    # Main data structure
    categories = {}
    # Mapping: category => list of movies (already formatted)

    for line in f_input:

        if line.startswith('#'): # Not interested
            continue

        # Get some info about that line
        fields = line.split('|')

        genres = fields[-2].upper().split(',') # List of strings (uppercase)
        title  = fields[-1].strip()            # clean it
        year   = fields[2].strip()             # it too
        rating = fields[1].strip()             # and it too, who knows...

        new_line = rating + '\t' + title + ' (' + year +')'

        for genre in genres: # uppercase already

            # Get the list of movies for that genre
            movies = categories.get(genre)
            if movies is None:
                categories[genre] = [new_line] # one item
            else:
                movies.append(new_line)

    # Done constructing the intermediate data structure
    # Can dump it into the output file now
    for cat,movies in categories.items():

        # Print category first, with '> '
        f_output.write('> ')
        f_output.write(cat)
        f_output.write('\n')

        # Print all movies for that category after
        for m in movies:
            f_output.write(m)
            f_output.write('\n')
```

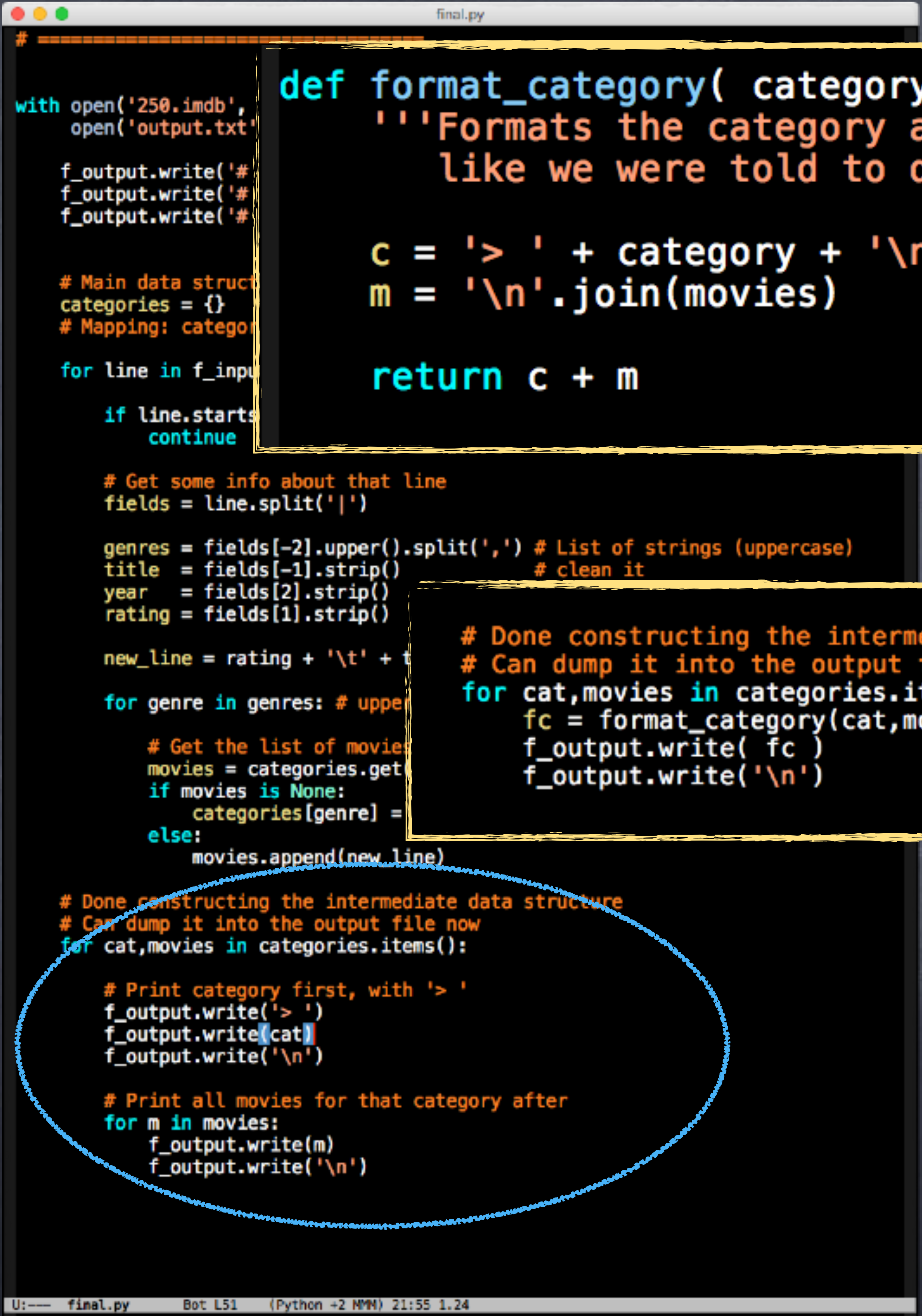




```python
# Done constructing the intermediate data structure
# Can dump it into the output file now
for cat,movies in categories.items():
    fc = format_category(cat,movies)
    f_output.write( fc )
    f_output.write('\n')
```



```python
def format_category( category, movies):
    '''Formats the category and movies
       like we were told to do in class'''

    c = '> ' + category + '\n'
    m = '\n'.join(movies)

    return c + m
```



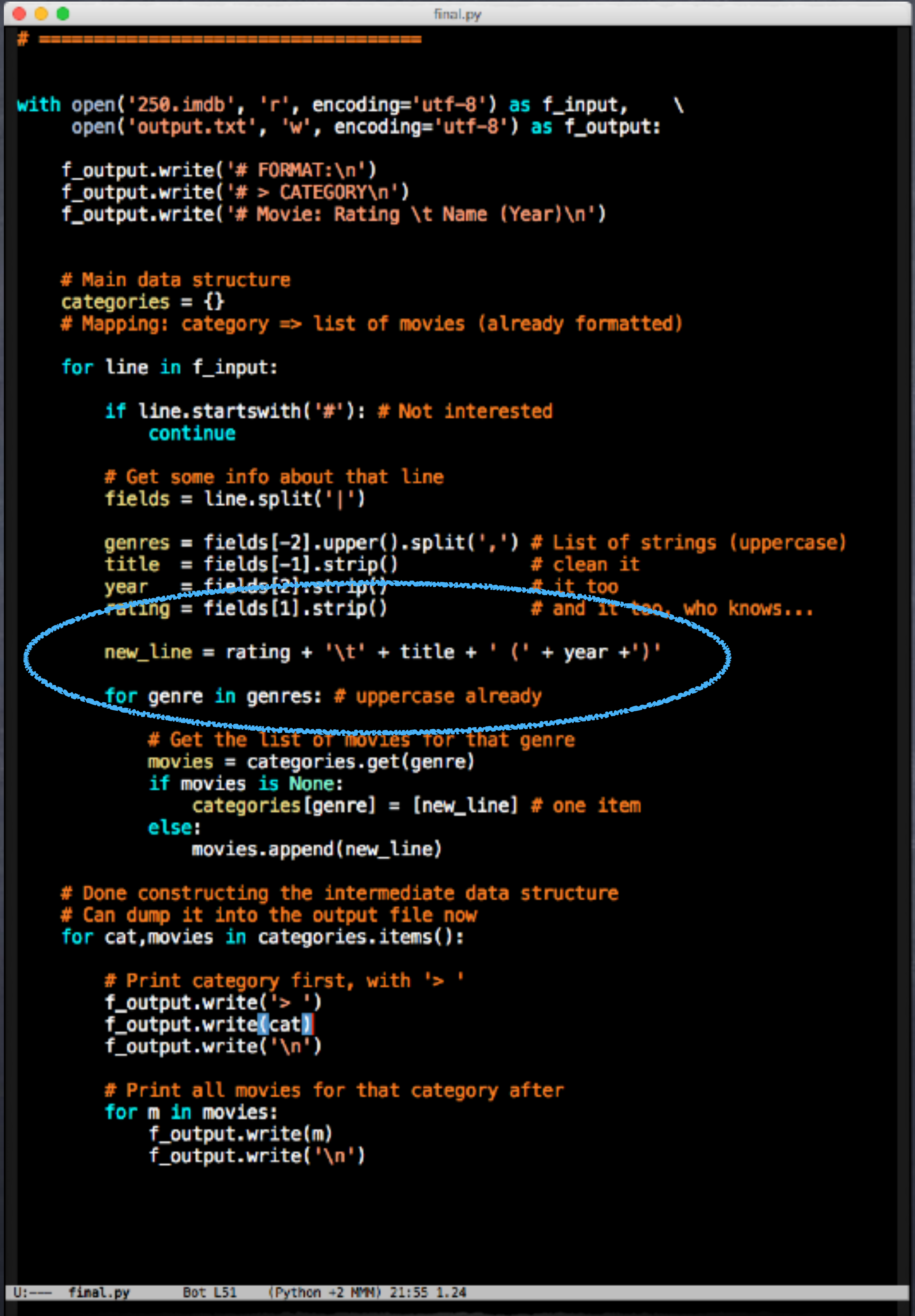
final.py

```
# ========================================

with open('250.imdb',
     open('output.txt'

    f_output.write('#
    f_output.write('#
    f_output.write('#


    # Main data struct
    categories = {}
    # Mapping: categor

    for line in f_inpu

        if line.starts
            continue

        # Get some info about that line
        fields = line.split('|')

        genres = fields[-2].upper().split(',') # List of strings (uppercase)
        title  = fields[-1].strip()             # clean it
        year   = fields[2].strip()
        rating = fields[1].strip()

        new_line = rating + '\t' + t

        for genre in genres: # uppe

            # Get the list of movie
            movies = categories.get
            if movies is None:
                categories[genre] =
            else:
                movies.append(new_line)

    # Done constructing the intermediate data structure
    # Can dump it into the output file now
    for cat,movies in categories.items():

        # Print category first, with '> '
        f_output.write('> ')
        f_output.write(cat)
        f_output.write('\n')

        # Print all movies for that category after
        for m in movies:
            f_output.write(m)
            f_output.write('\n')
```

```
U:---  final.py       Bot L51    (Python +2 MMM) 21:55 1.24
```

```
def format_category( category, movies):
    '''Formats the category and movies
       like we were told to do in class'''

    c = '> ' + category + '\n'
    m = '\n'.join(movies)

    return c + m
```

```
# Done constructing the intermediate data structure
# Can dump it into the output file now
for cat,movies in categories.items():
    fc = format_category(cat,movies)
    f_output.write( fc )
    f_output.write('\n')
```



```
# ===================================


with open('250.imdb', 'r', encoding='utf-8') as f_input,    \
     open('output.txt', 'w', encoding='utf-8') as f_output:

    f_output.write('# FORMAT:\n')
    f_output.write('# > CATEGORY\n')
    f_output.write('# Movie: Rating \t Name (Year)\n')


    # Main data structure
    categories = {}
    # Mapping: category => list of movies (already formatted)

    for line in f_input:

        if line.startswith('#'): # Not interested
            continue

        # Get some info about that line
        fields = line.split('|')

        genres = fields[-2].upper().split(',') # List of strings (uppercase)
        title  = fields[-1].strip()            # clean it
        year   = fields[2].strip()             # it too
        rating = fields[1].strip()             # and it too, who knows...

        new_line = rating + '\t' + title + ' (' + year +')'

        for genre in genres: # uppercase already

            # Get the list of movies for that genre
            movies = categories.get(genre)
            if movies is None:
                categories[genre] = [new_line] # one item
            else:
                movies.append(new_line)

    # Done constructing the intermediate data structure
    # Can dump it into the output file now
    for cat,movies in categories.items():

        # Print category first, with '> '
        f_output.write('> ')
        f_output.write(cat)
        f_output.write('\n')

        # Print all movies for that category after
        for m in movies:
            f_output.write(m)
            f_output.write('\n')
```

```
U:---  final.py      Bot L51    (Python +2 MMM) 21:55 1.24
```