Cheatography

python Keyboard Shortcuts

by ilbaks01 via cheatography.com/198931/cs/42148/

Abstract Classes

sadfas-dfa-sdffas asdfas-dfsfsd-eeeeee-eeeeee-eeeeee-eeeeee-eeeeee-eeeeee-eeeeee-eeeeee-eeeeee-eeeeee-eeeeee

```
from abc import ABC,
  abstra ctm ethod

class MyClas s(ABC):
 @abstr act method
 def some_m eth od( self):

  pass
```

gdsfgsdfg

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 def some_m eth od( self):
  pass
```

Data Classes

```
from dataclasses import
dataclass,
InitVar
@dataclass
class Rectangle:
   # We don't want to store
   # width in the object
    width: InitVa r[int]
   # We don't want to store
height in the object
    height: InitVa r[int]
    color: str
   def __post _in it_ _(self,
width: int, height: int):
   # Create a new attribute
called area
```

Data Classes (cont)

```
>  # and store it in the object
self.area: int = width * height

 def draw(self) -> str:
   return f'Draw a {self.color} \
rectangle with area {self.area}'
rect = Rectangle(width=10, height=20,
color='red')
print(rect.draw()) # Draw a red rectangle
with area 200
# AttributeError: 'Rectangle' object has no
attribute 'width'
print(rect.width)
 # AttributeError: 'Rectangle' object has no
attribute 'height'
print(rect.height)
```

das

fasdfasdf

Unit Testing with Pytest

1. Write tests early and often
2. Keep tests small and focused:
3. Use descriptive test names
4. Avoid testing implementation details
5. Use test fixtures
6. Use mocking and stubbing when necessary
7. Run tests automatically
8. Maintain code coverage

```
pip install pytest
def test_addition():
     assert 2 + 2 == 4

pytest test_m ath.py

pip install coverage
pytest --cov= my_ package
```