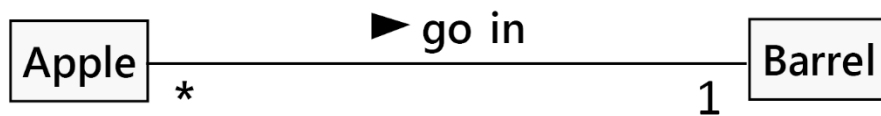
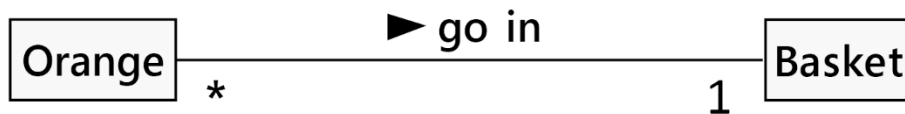
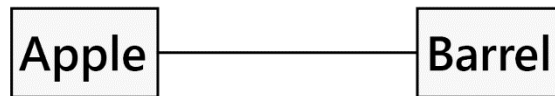
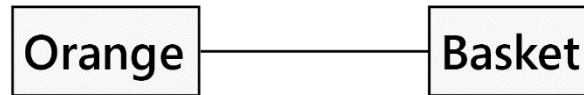
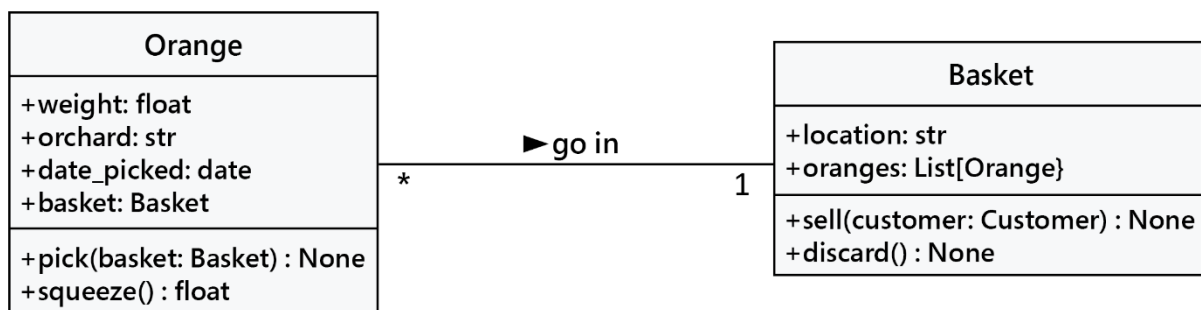
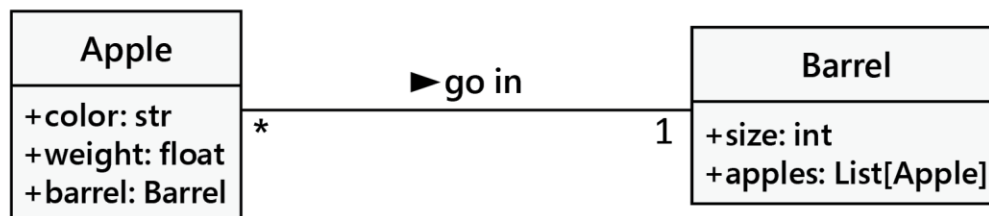
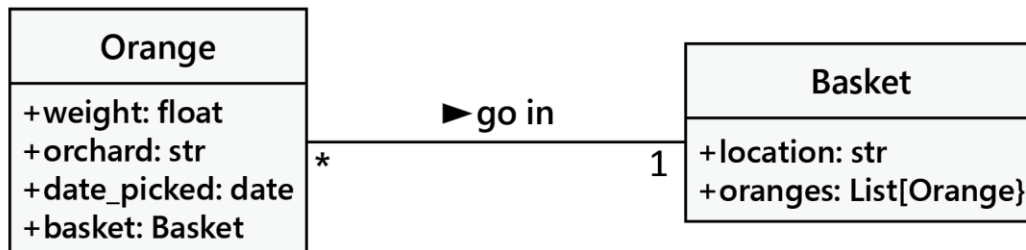
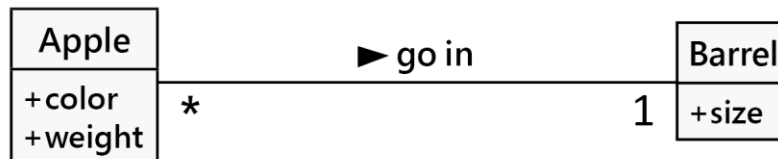
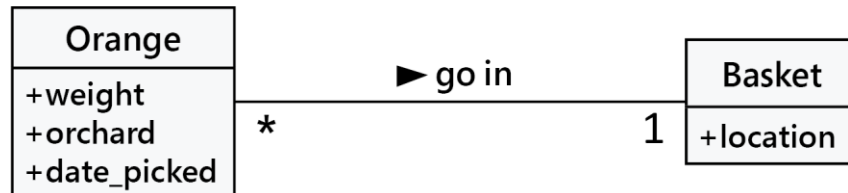
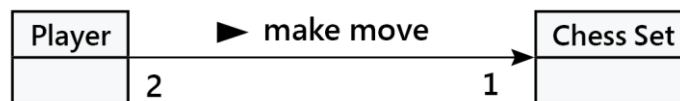
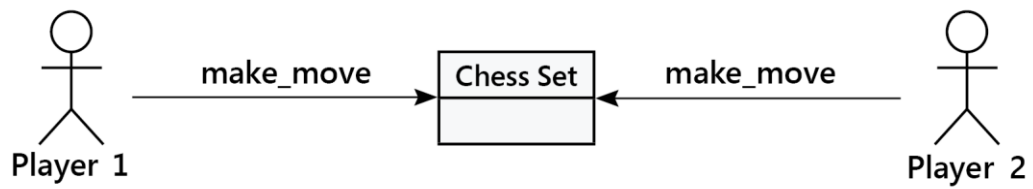
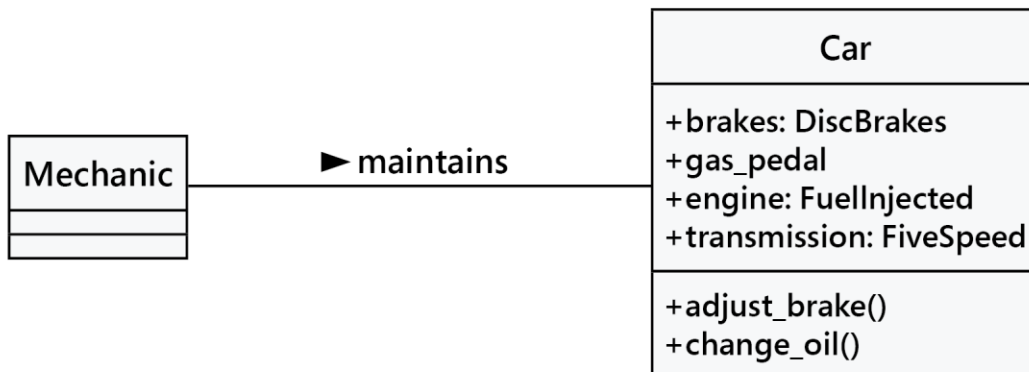
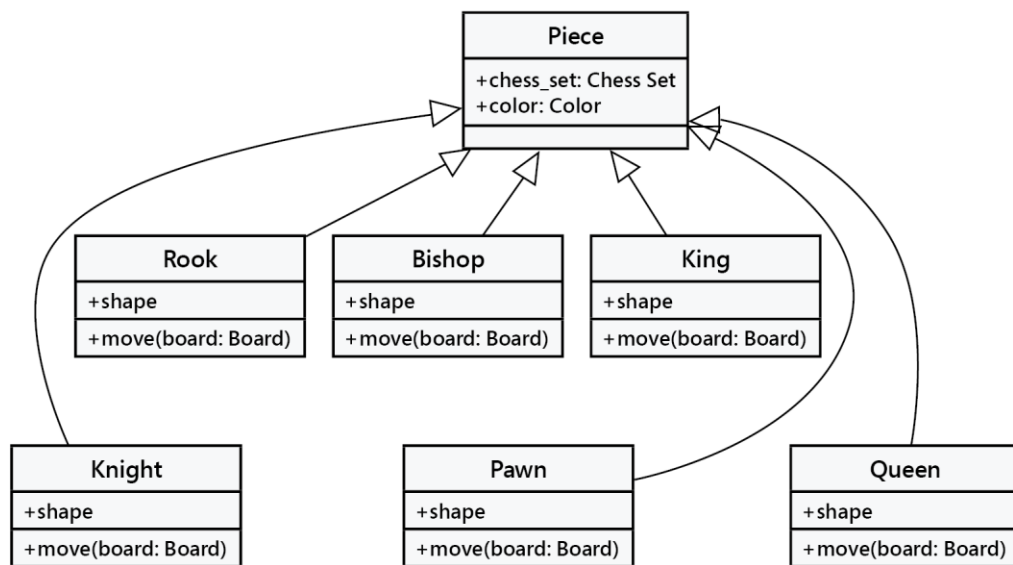
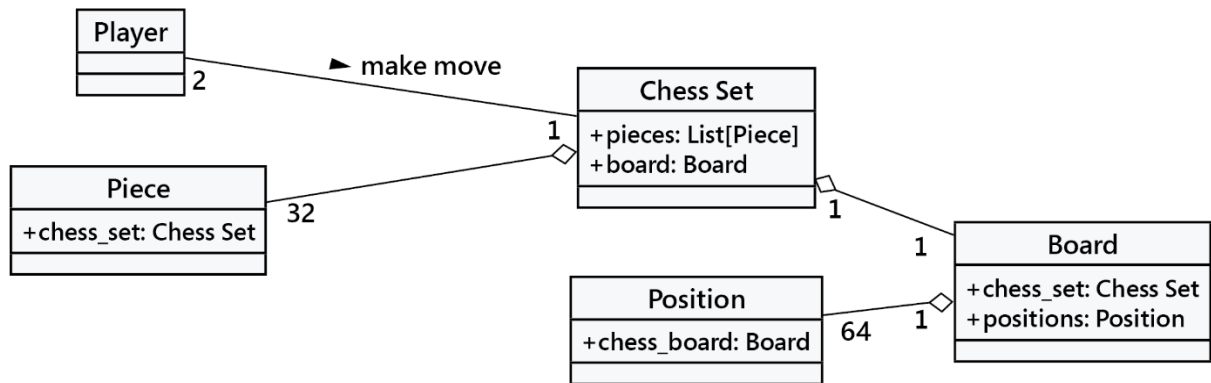


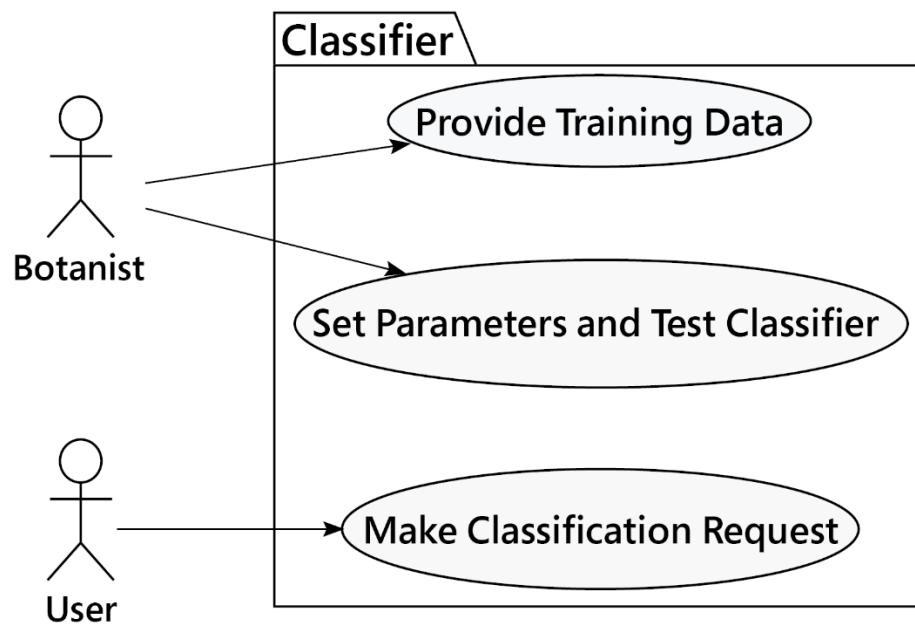
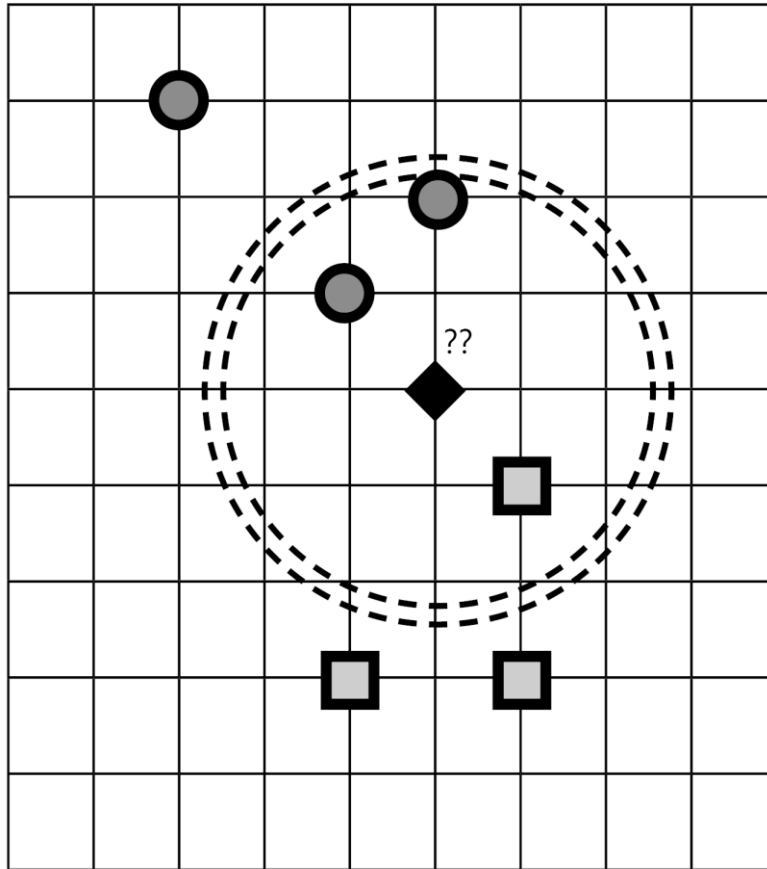
Chapter 1: Object-Oriented Design

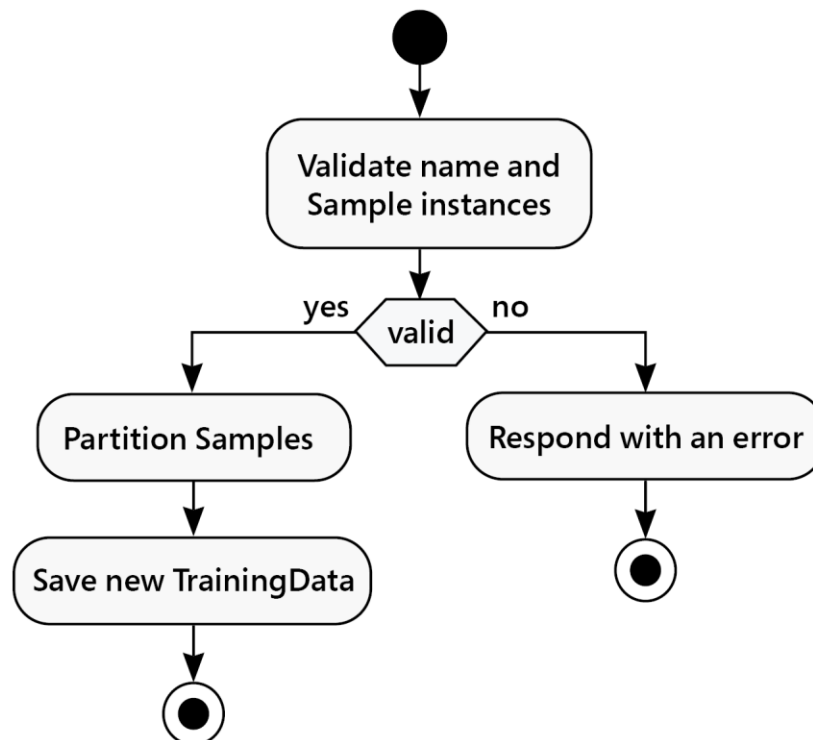
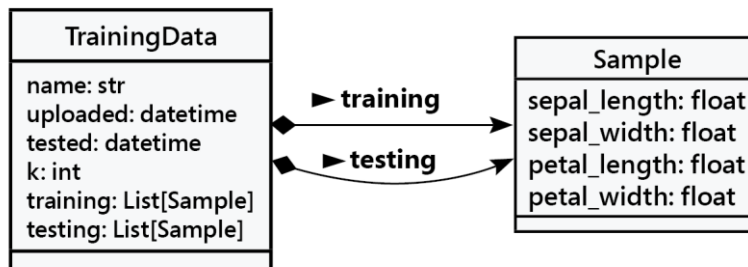
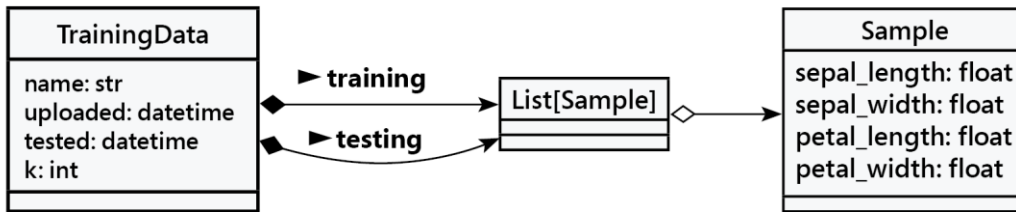


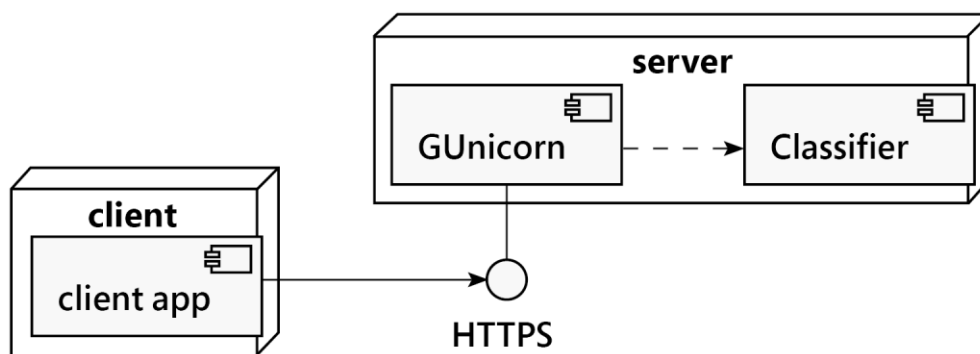
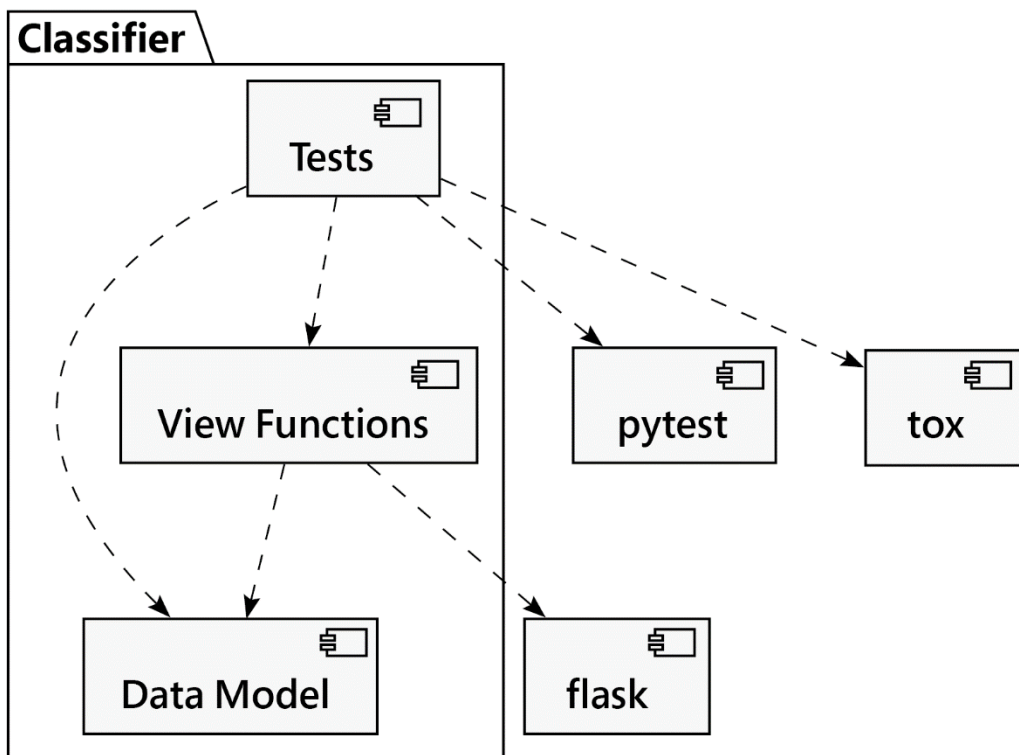




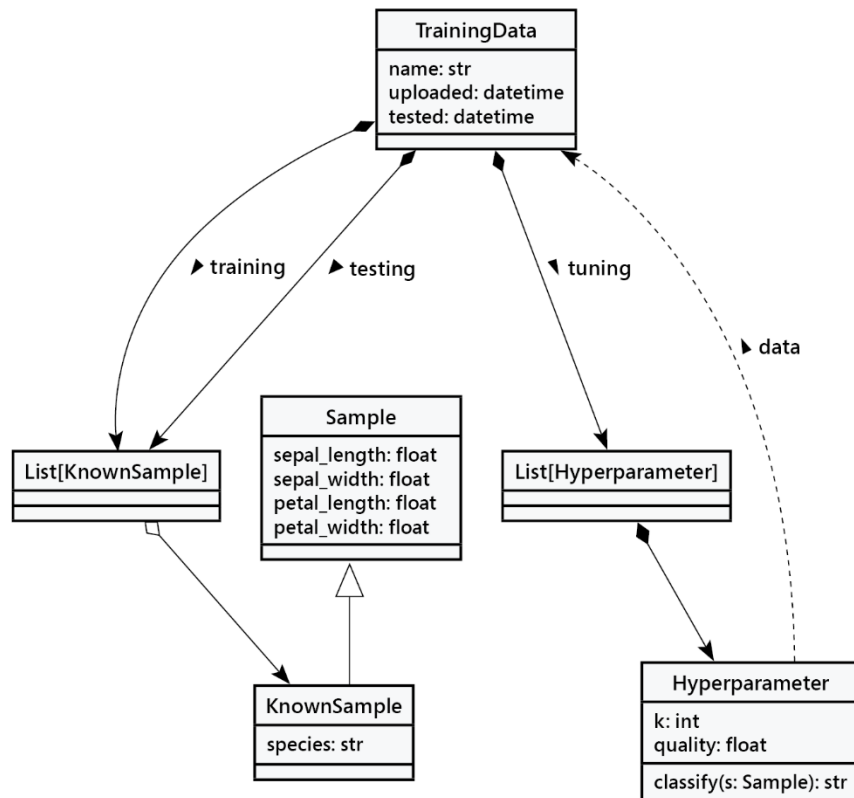
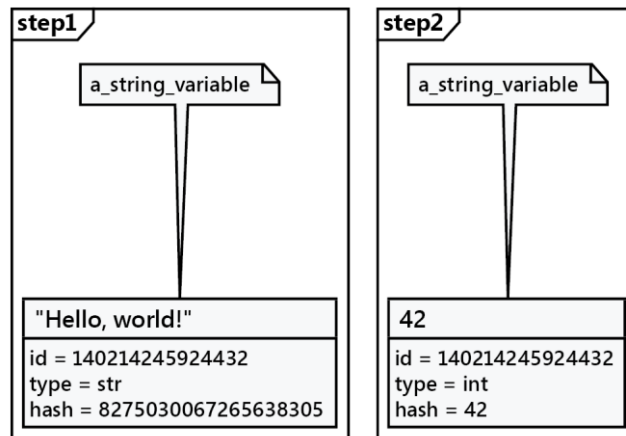


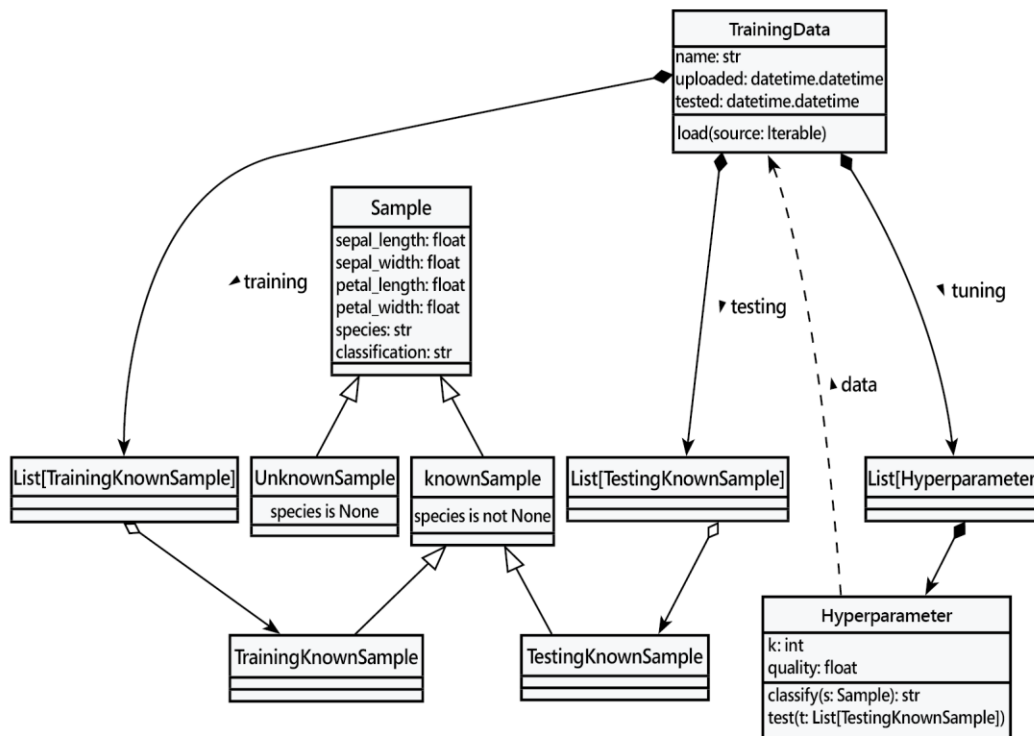




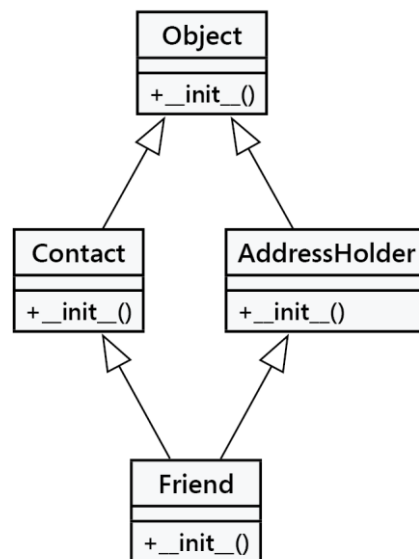
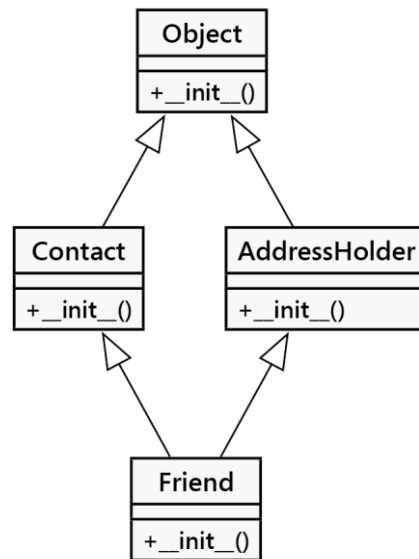


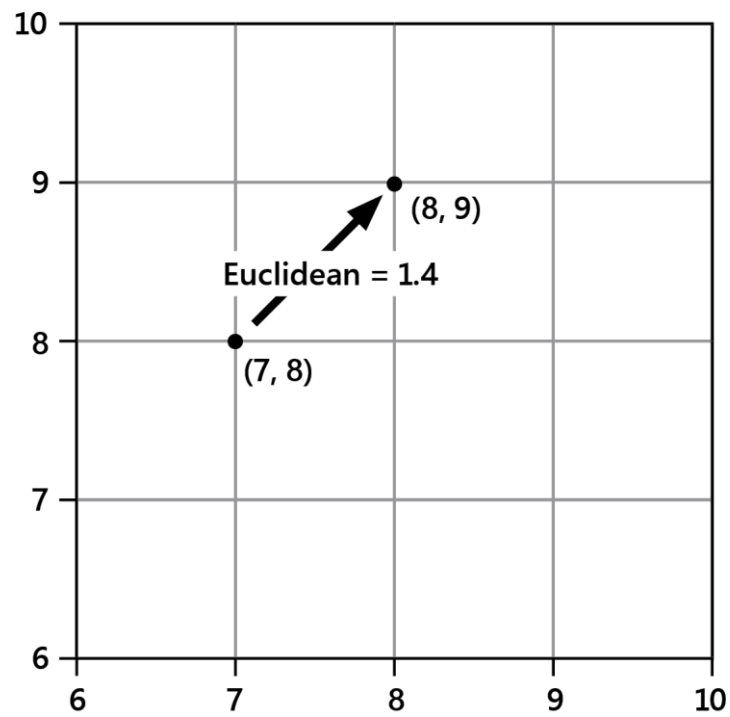
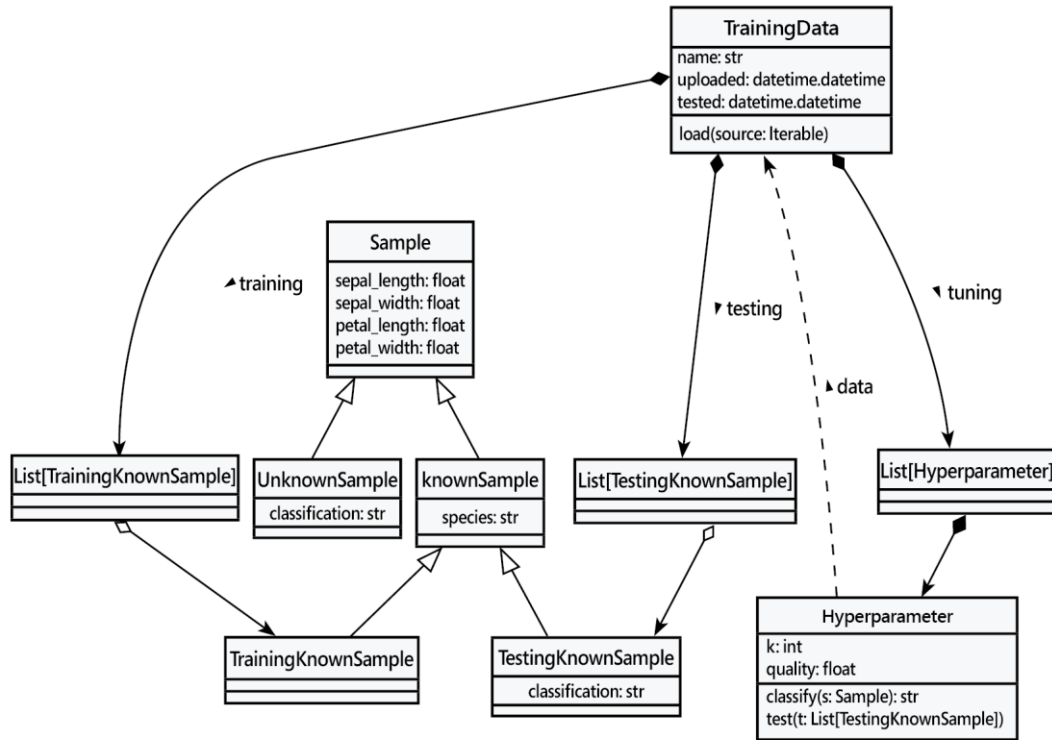
Chapter 2: Objects in Python

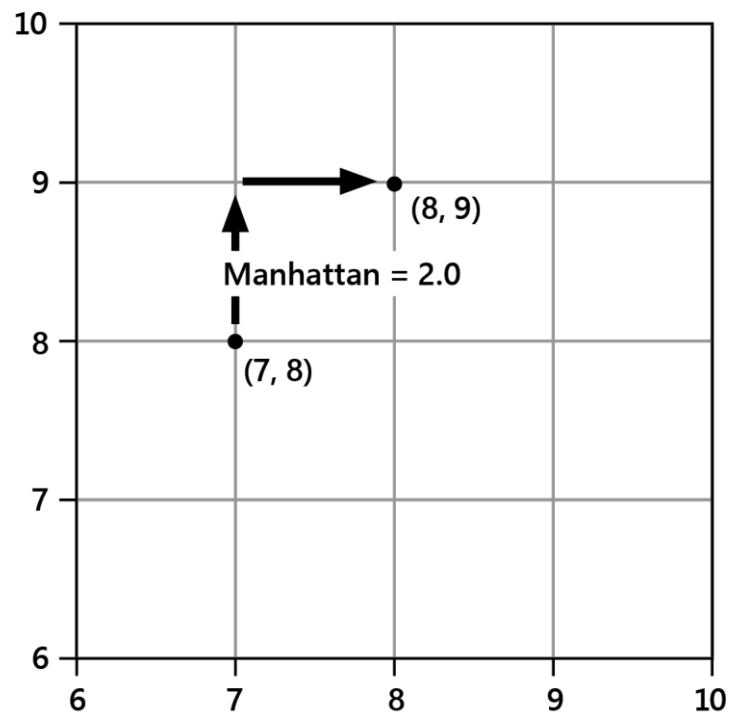
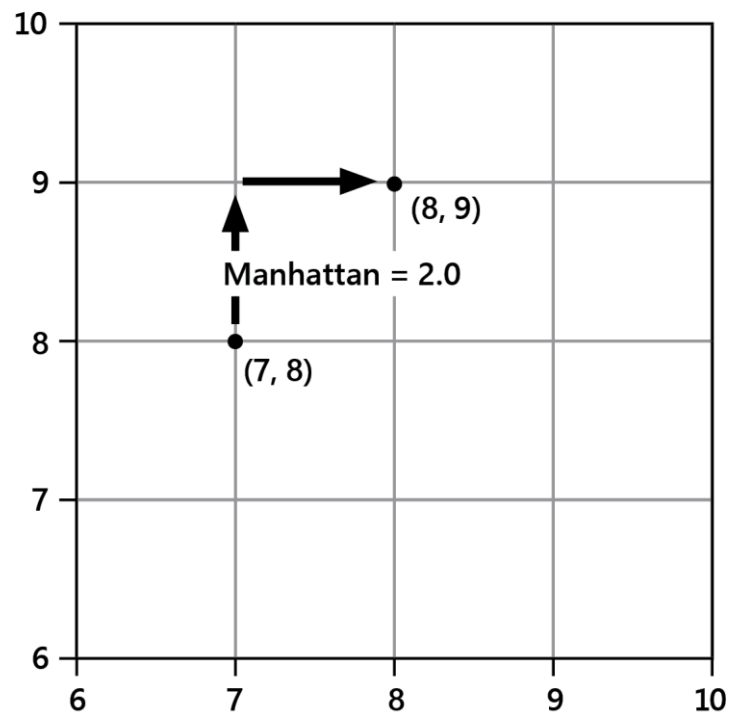


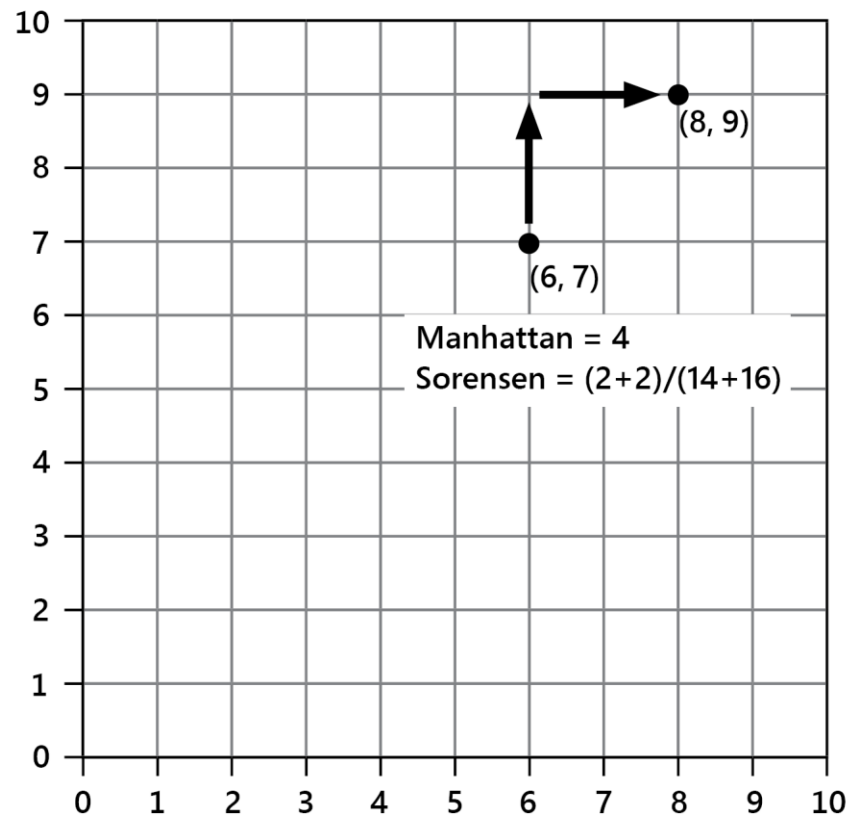


Chapter 3: When Objects Are Alike

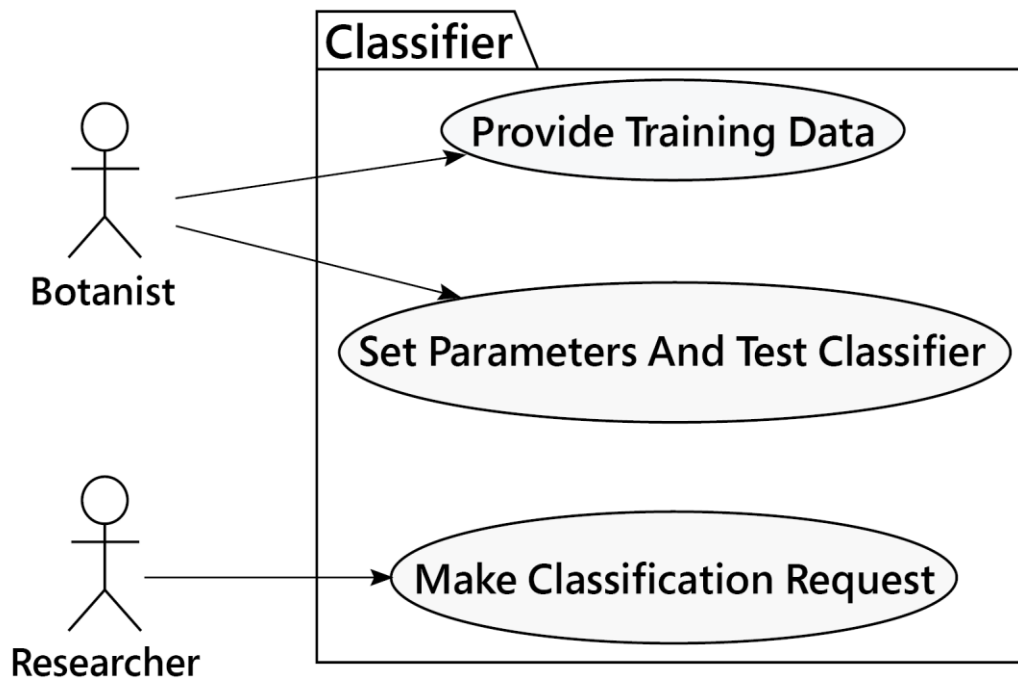
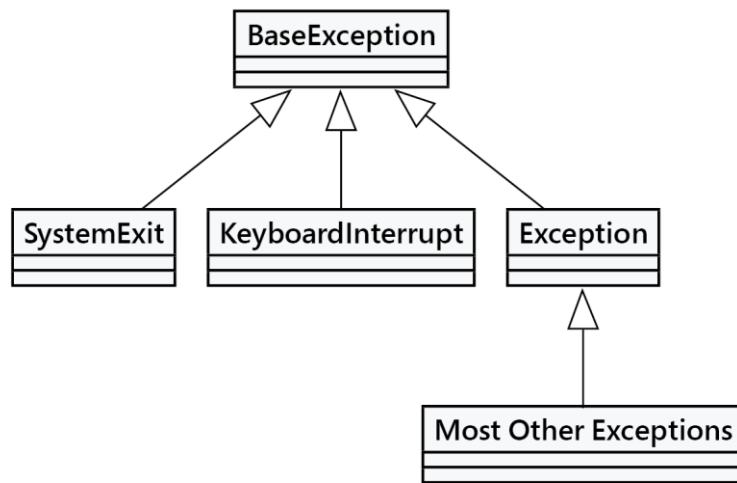


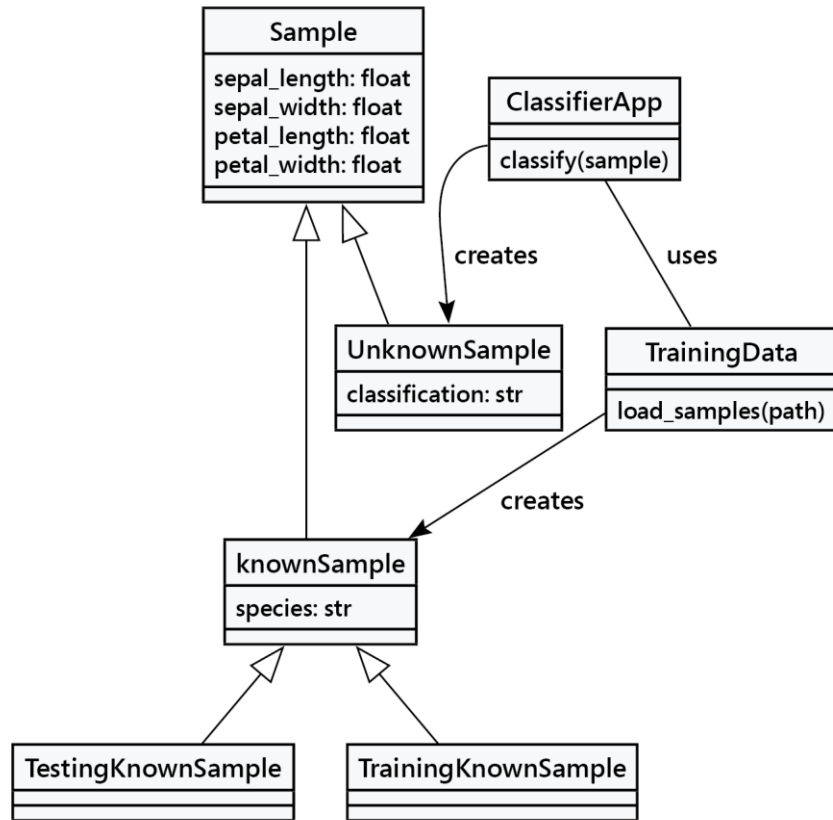




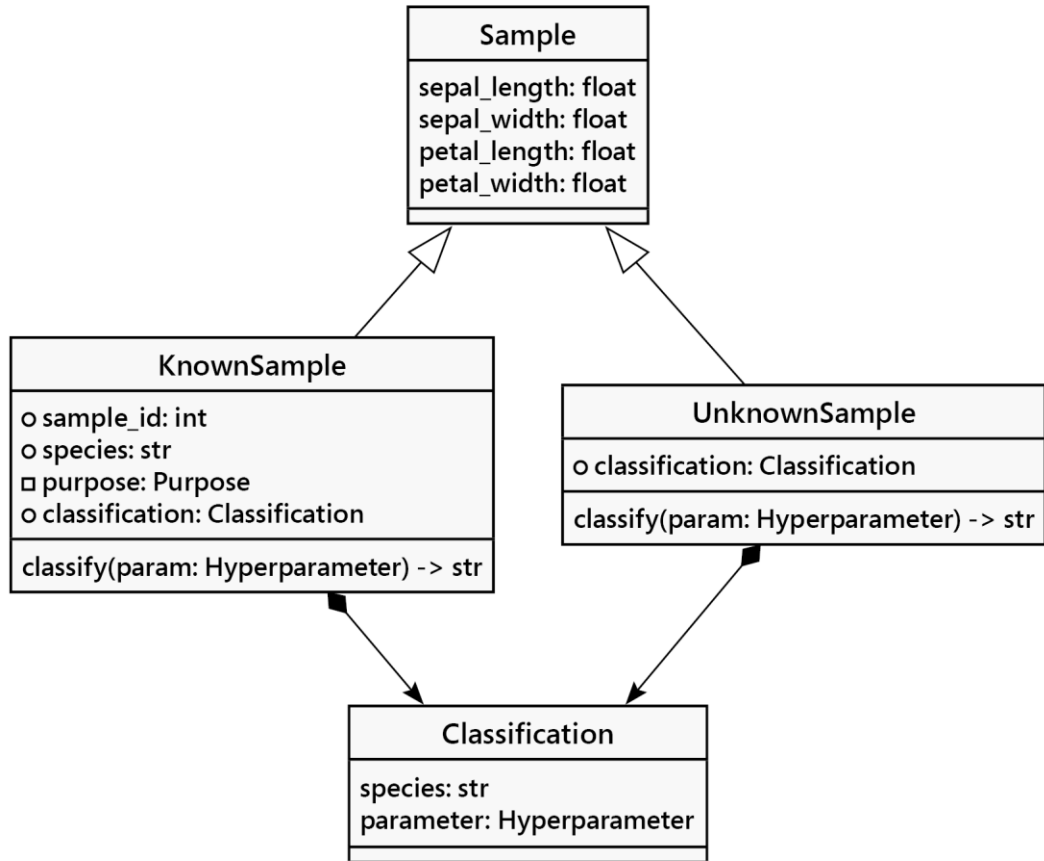


Chapter 4: Expecting the Unexpected

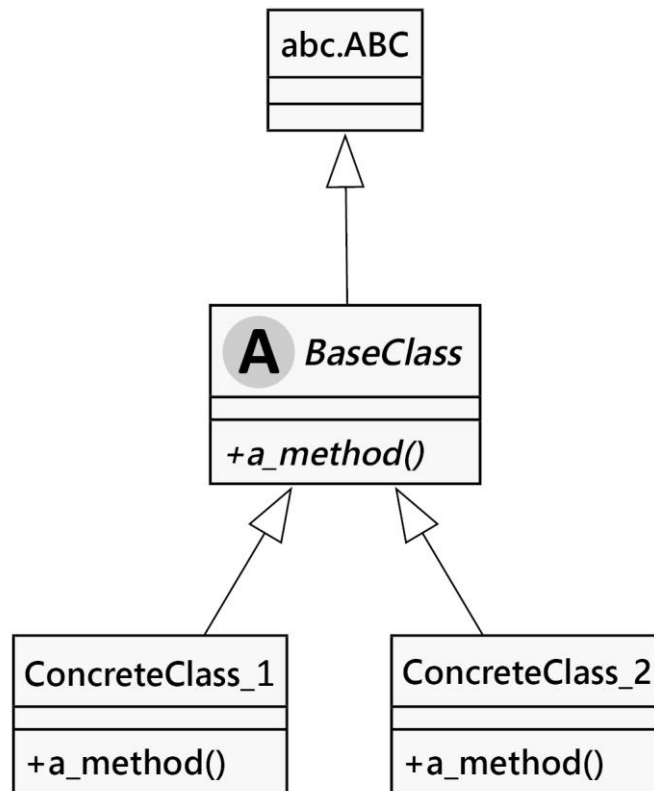


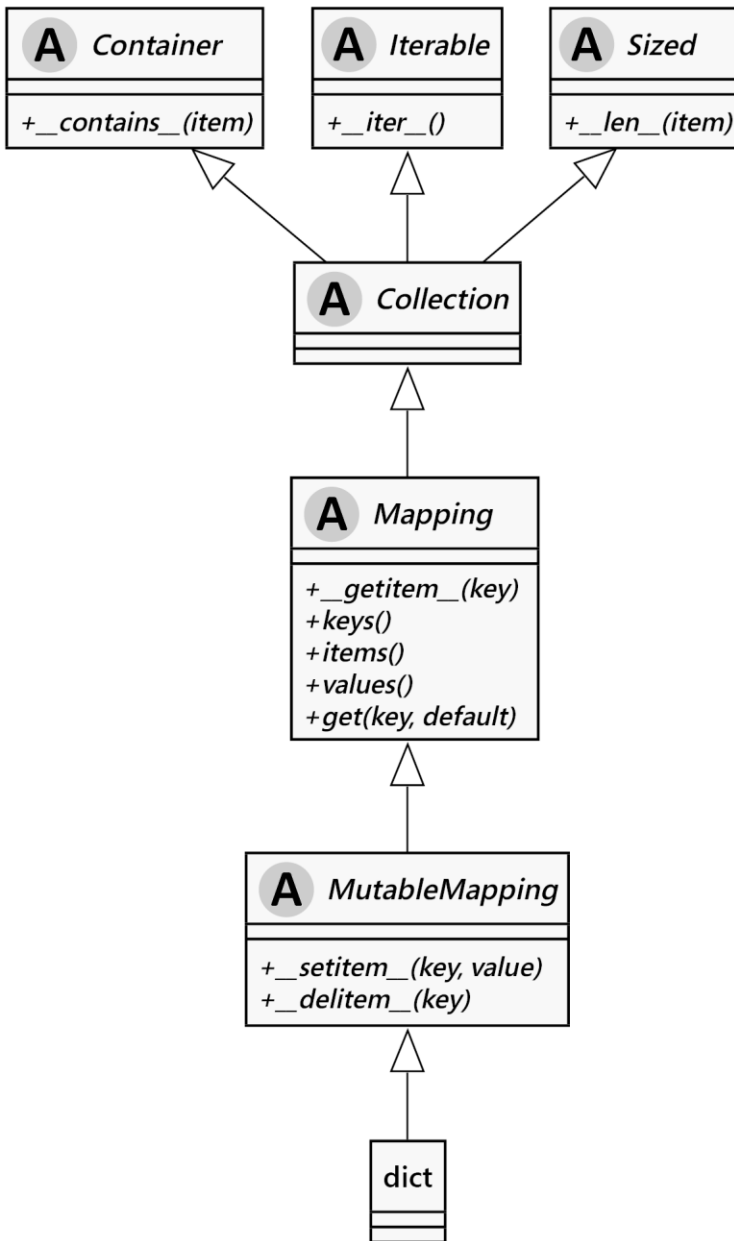


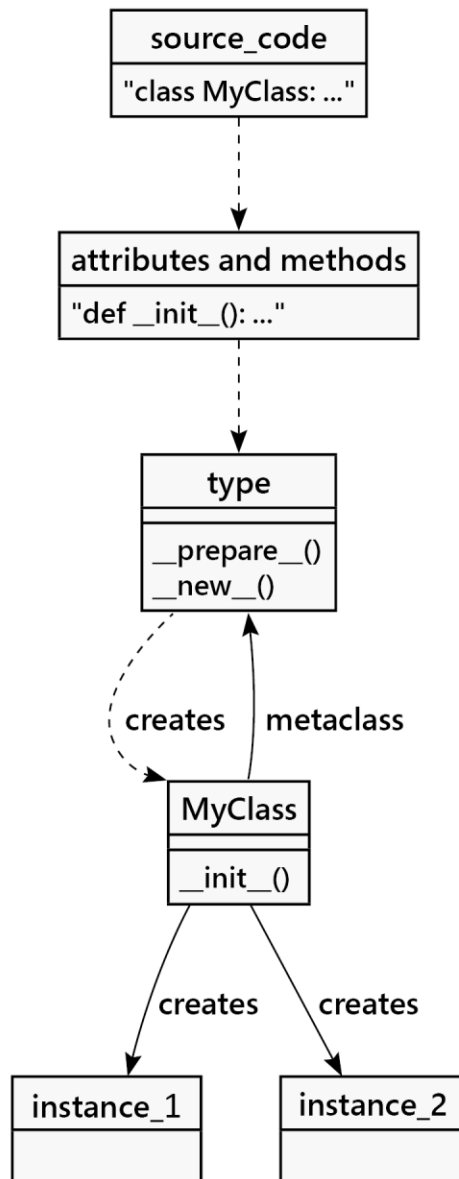
Chapter 5: When to Use Object-Oriented Programming

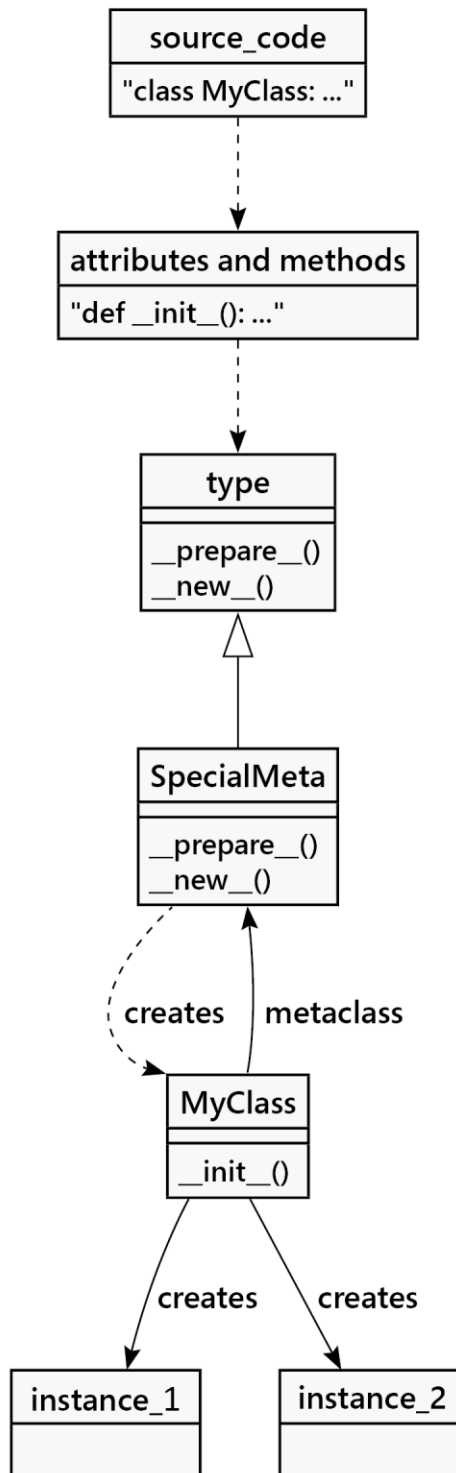


Chapter 6: Abstract Base Classes and Operator Overloading

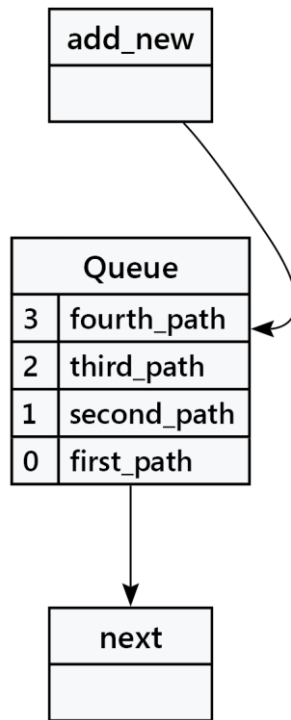


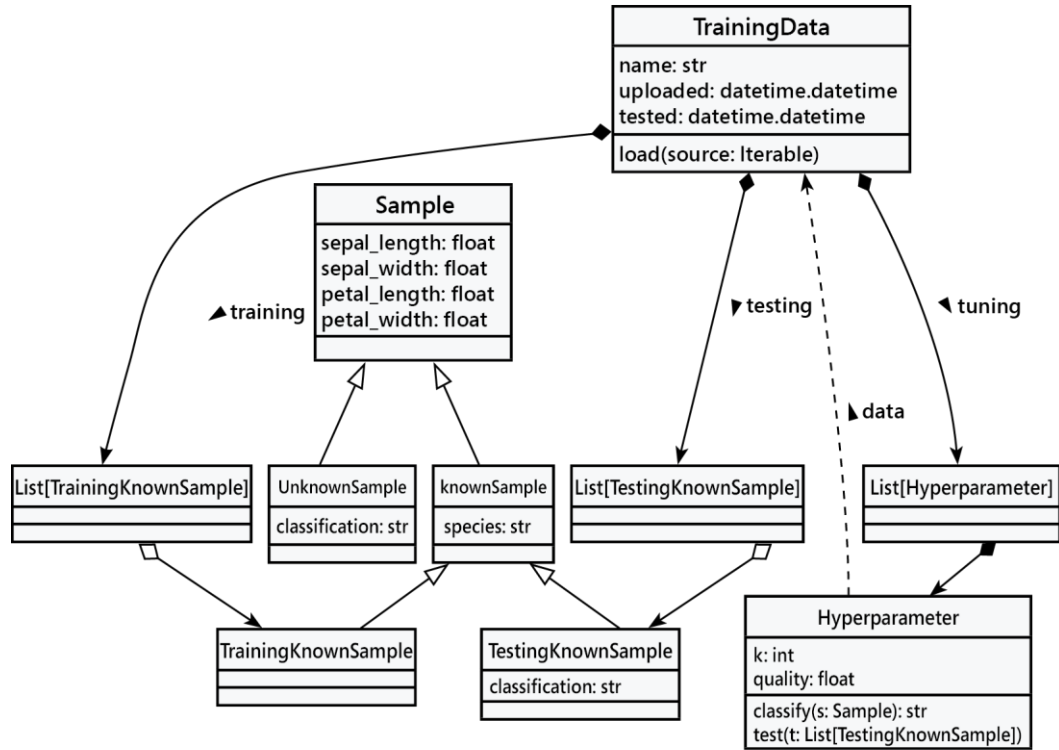


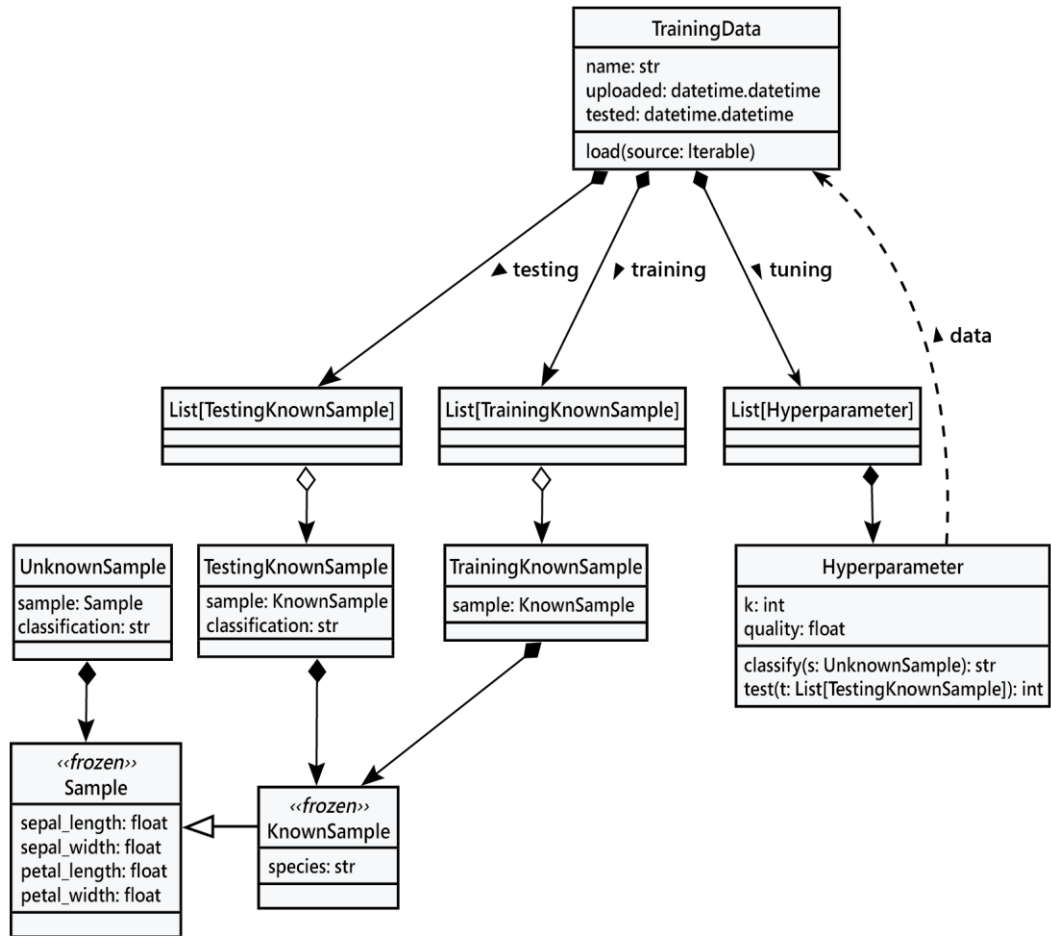


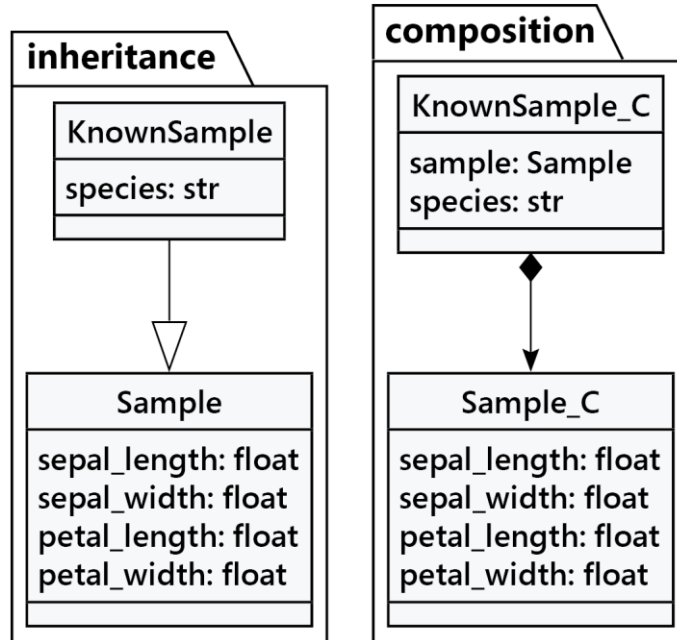


Chapter 7: Python Data Structures

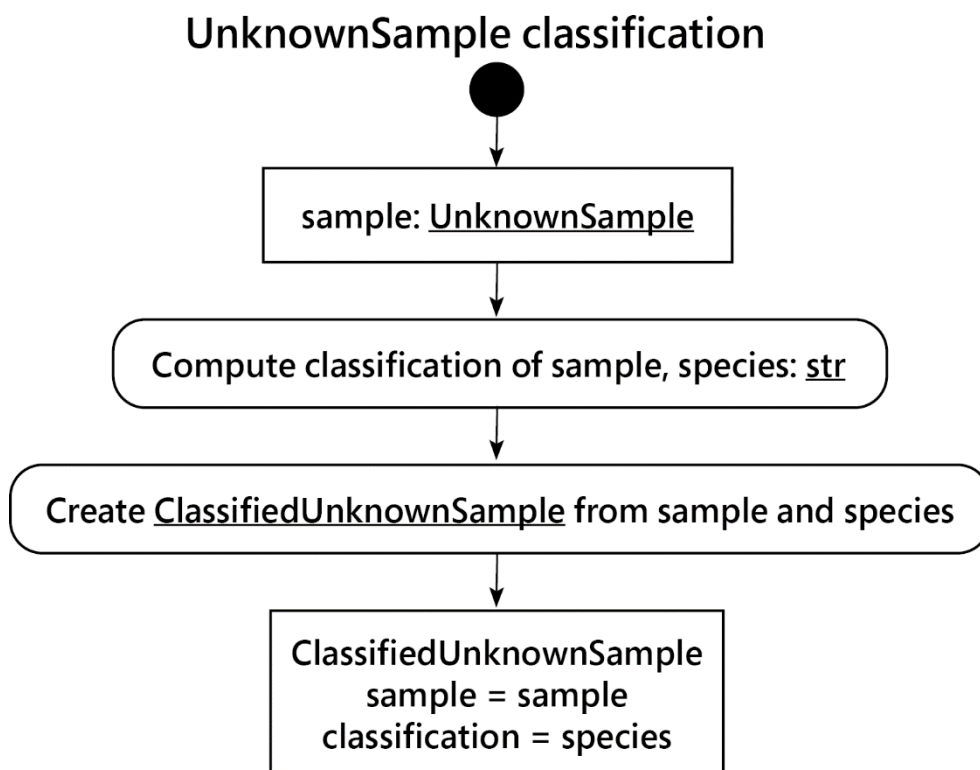
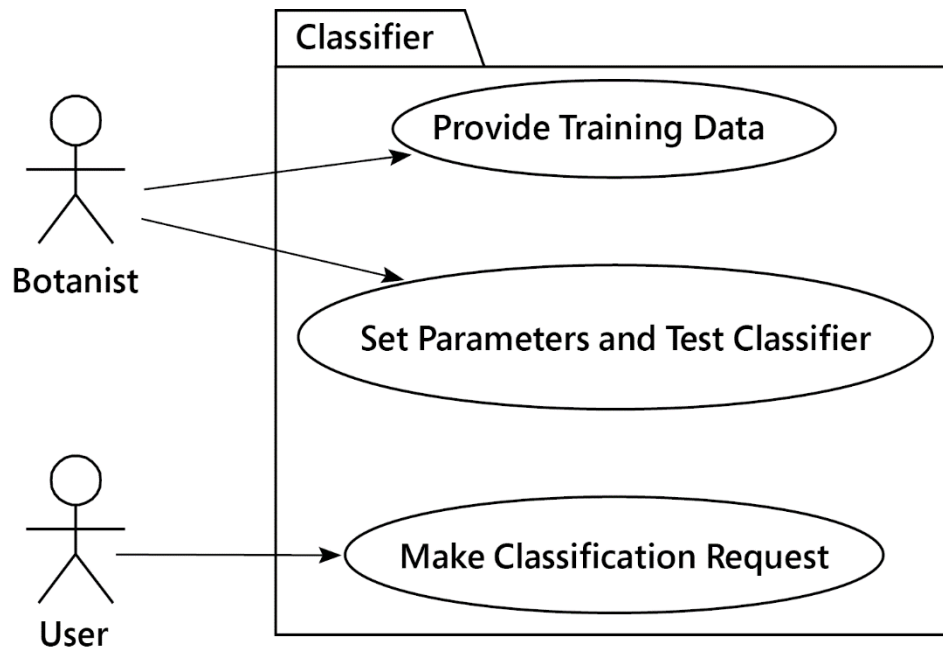




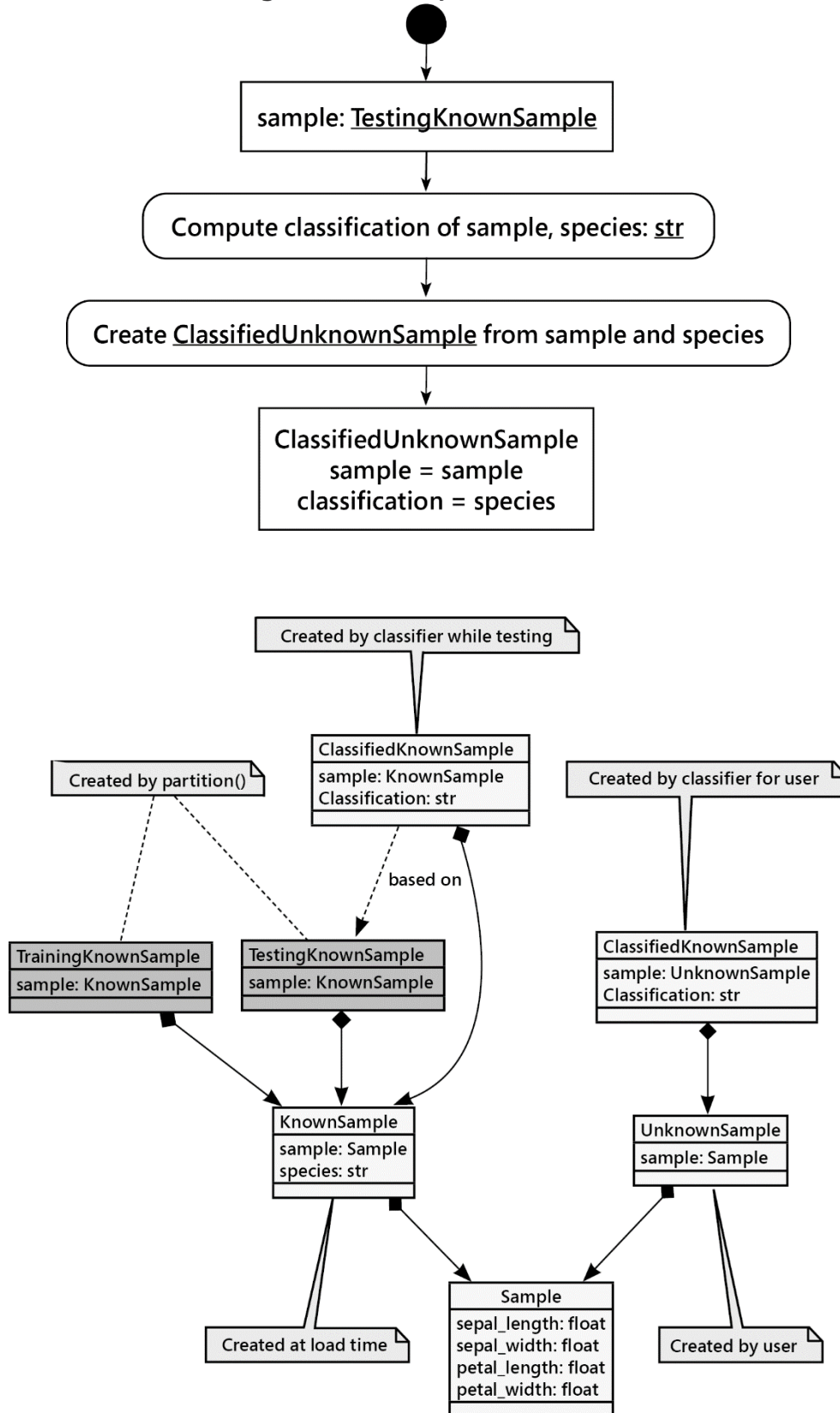




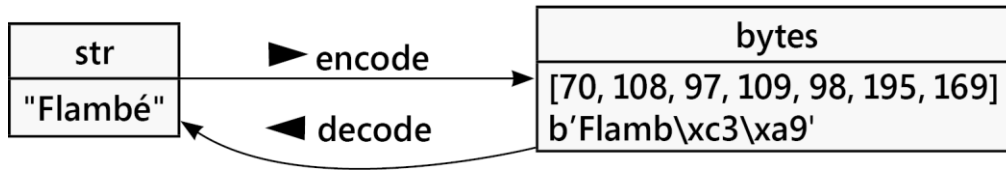
Chapter 8: The Intersection of Object-Oriented and Functional Programming



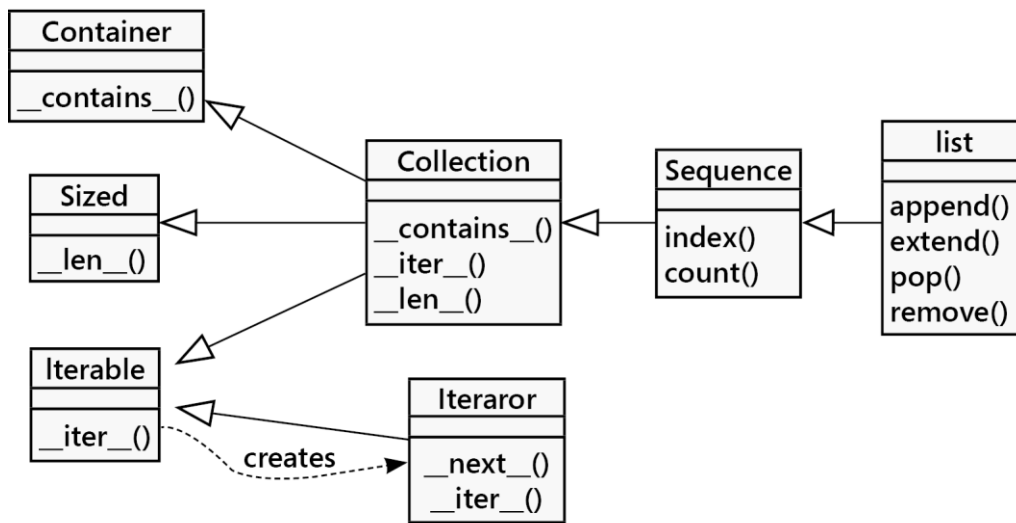
TestingKnownSample classification



Chapter 9: Strings, Serialization, and File Paths



Chapter 10: The Iterator Pattern



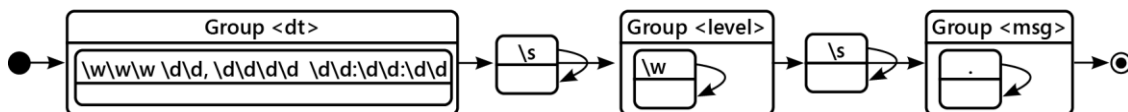
Generator
Function

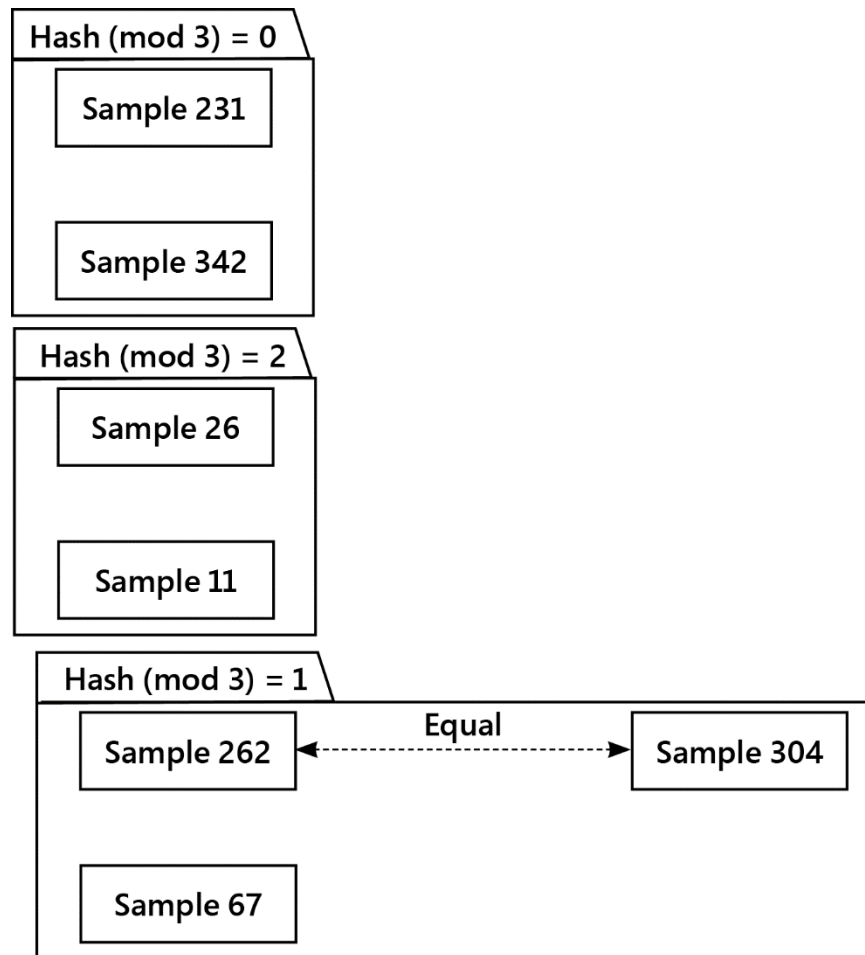
Generator
Expression

for line in source: tuple(...)

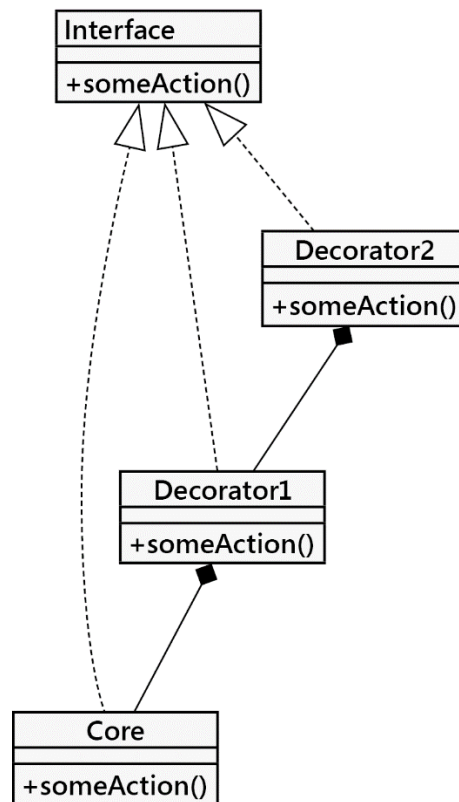
if "WARN" in line: for line in source

yield tuple(...) if "WARN" in line





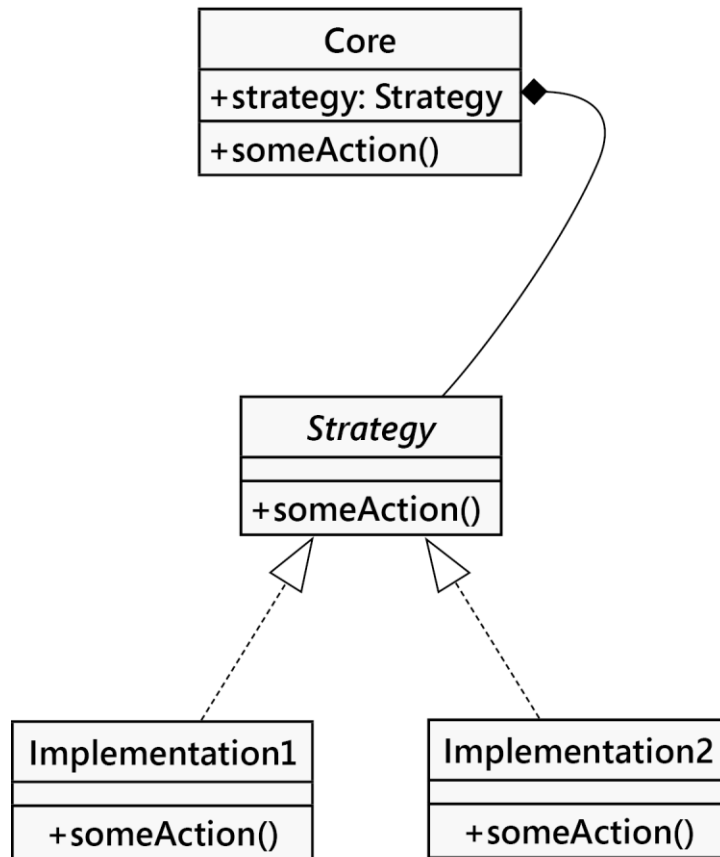
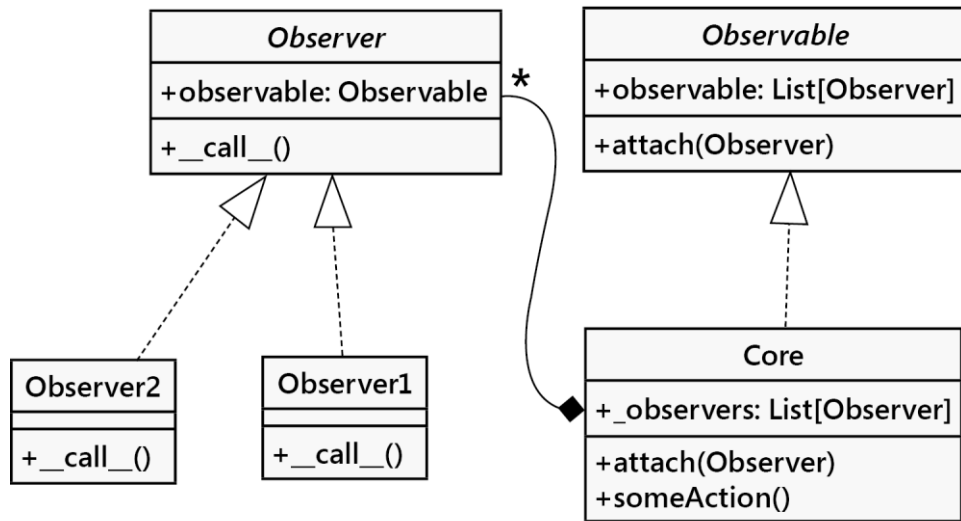
Chapter 11: Common Design Patterns

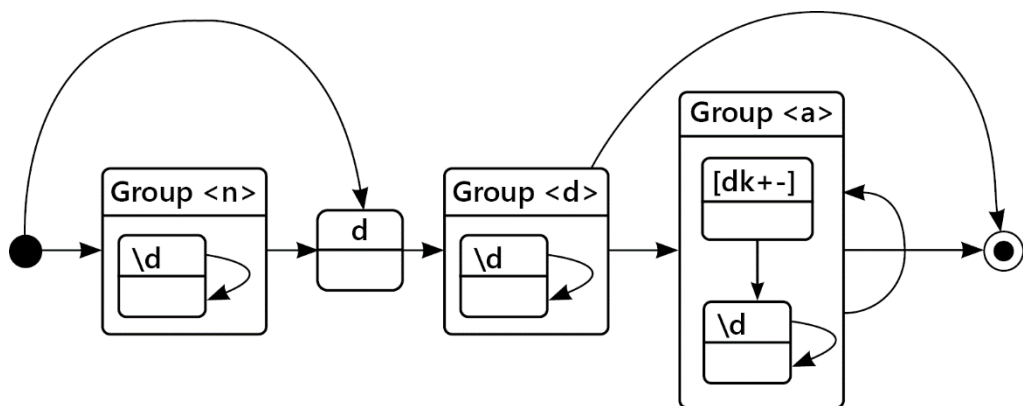
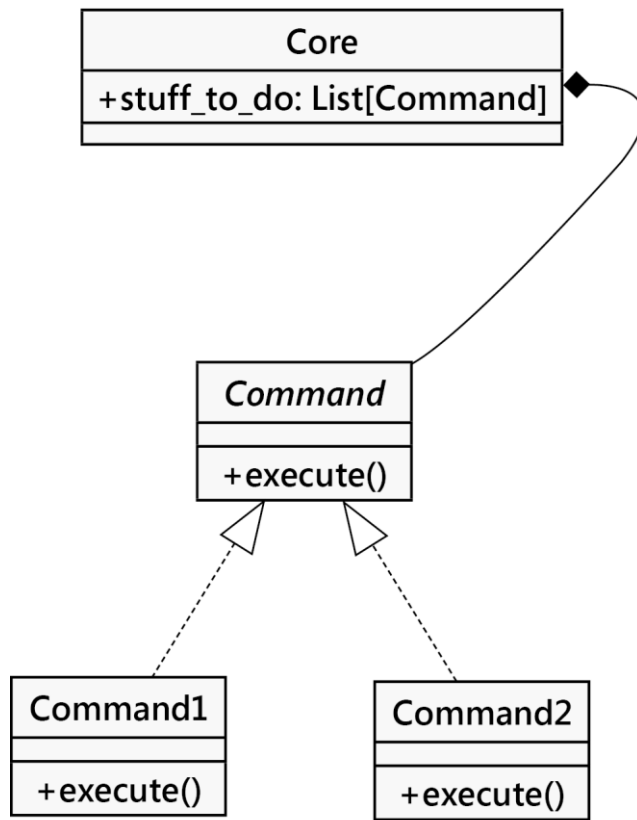


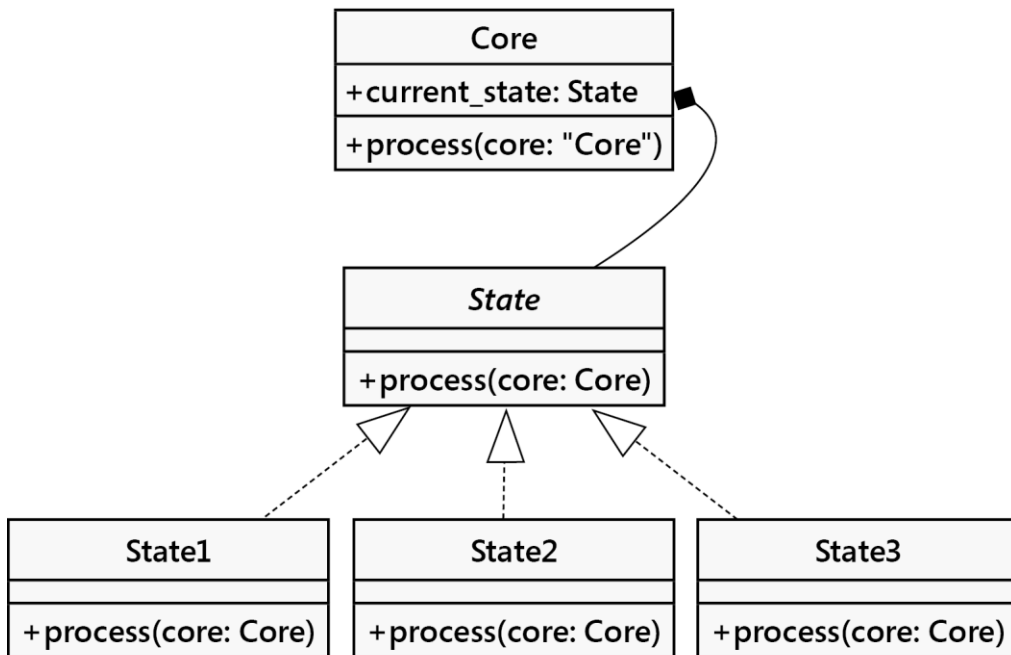
```
src — Server — python socket_server.py — 50x24
src — Client — -zsh — 50x24

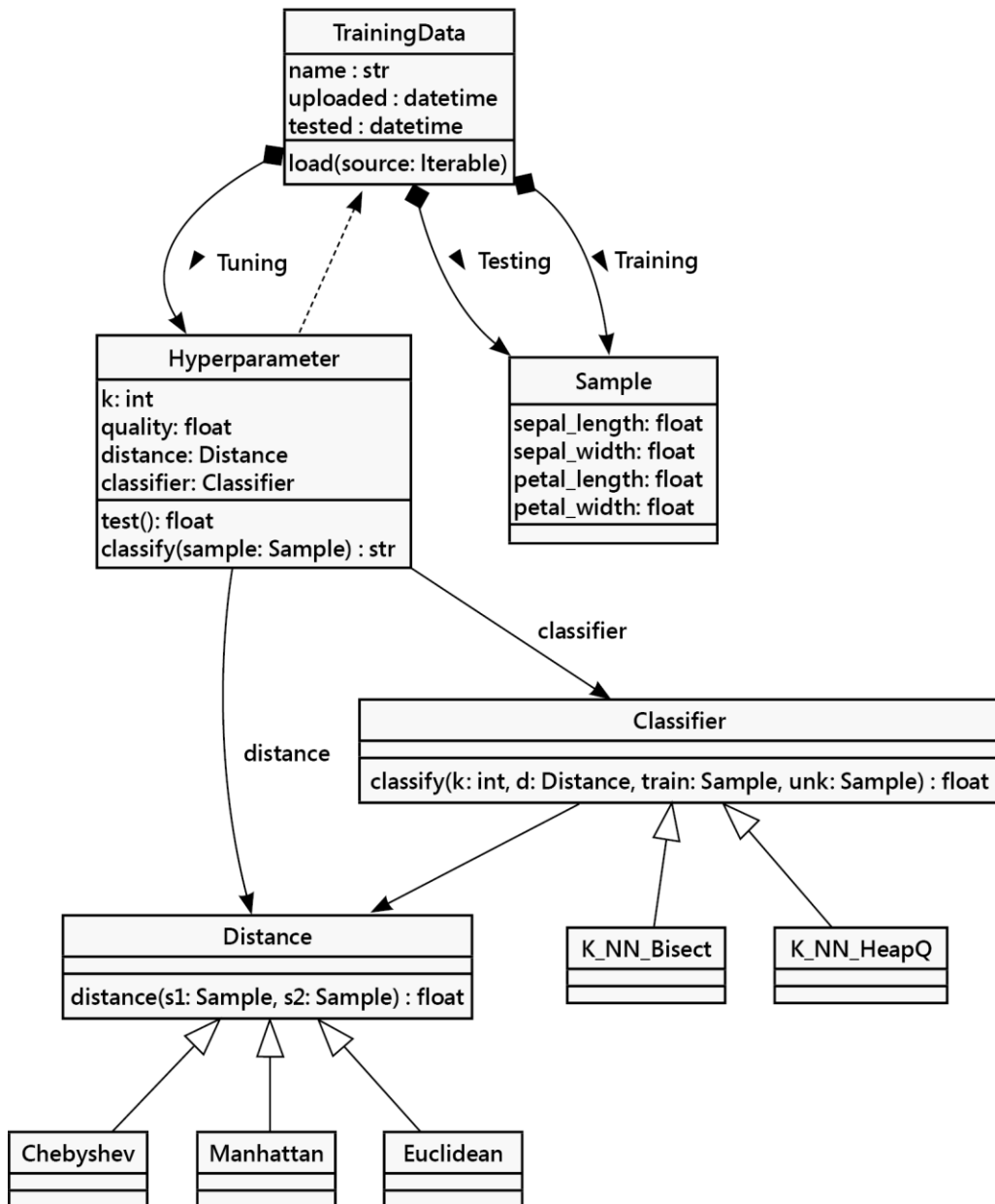
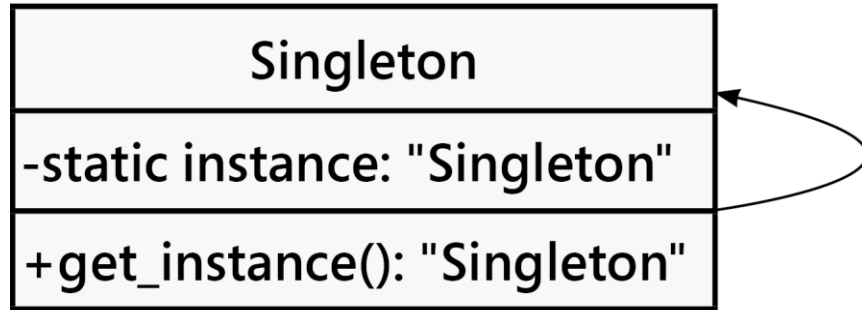
% ls
__pycache__      socket_server.py
socket_client.py
% python socket_server.py
Receiving b'Dice 5 2d6' from 127.0.0.1
Sending b'Dice 5 2d6 = [6, 9, 8, 10, 3]' to 127.0.0.1
Receiving b'Dice 6 4d6k3' from 127.0.0.1
Sending b'Dice 6 4d6k3 = [5, 11, 14, 8, 7, 13]' to 127.0.0.1
Receiving b'Dice 3 10d8+2' from 127.0.0.1
Sending b'Dice 3 10d8+2 = [42, 32, 41]' to 127.0.0.1
.1
%

% ls
__pycache__      socket_server.py
socket_client.py
% python socket_client.py
How many rolls: 5
Dice pattern nd6[dk+~]a: 2d6
Dice 5 2d6 = [6, 9, 8, 10, 3]
%
% python socket_client.py
How many rolls: 6
Dice pattern nd6[dk+~]a: 4d6k3
Dice 6 4d6k3 = [5, 11, 14, 8, 7, 13]
%
% python socket_client.py
How many rolls: 3
Dice pattern nd6[dk+~]a: 10d8+2
Dice 3 10d8+2 = [42, 32, 41]
%
% 
```

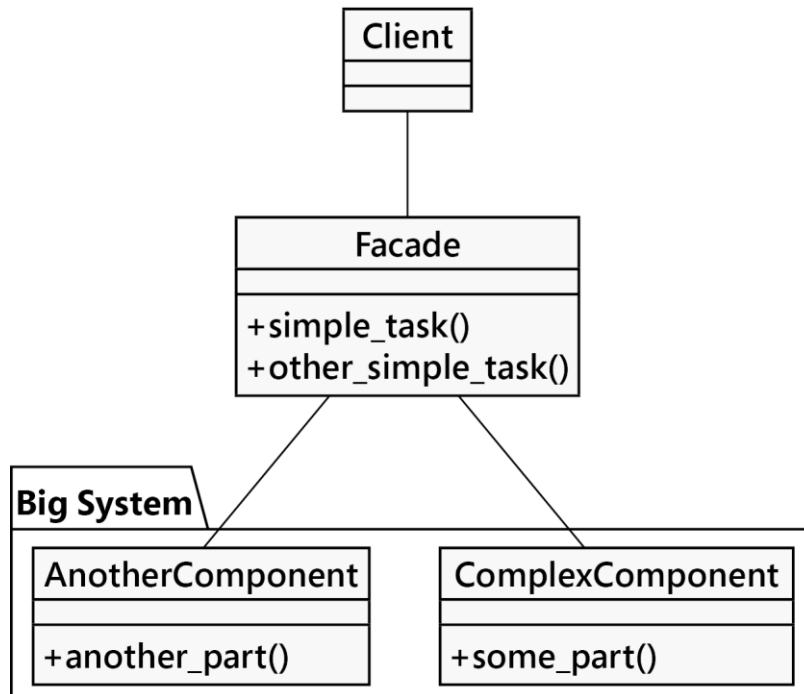
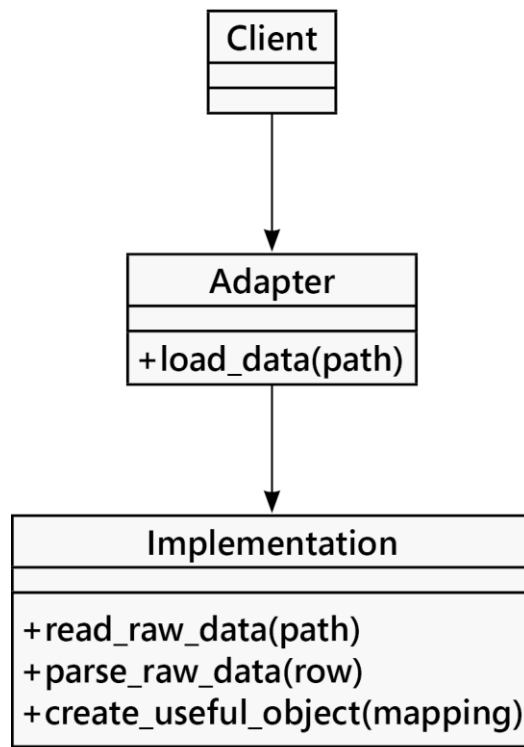


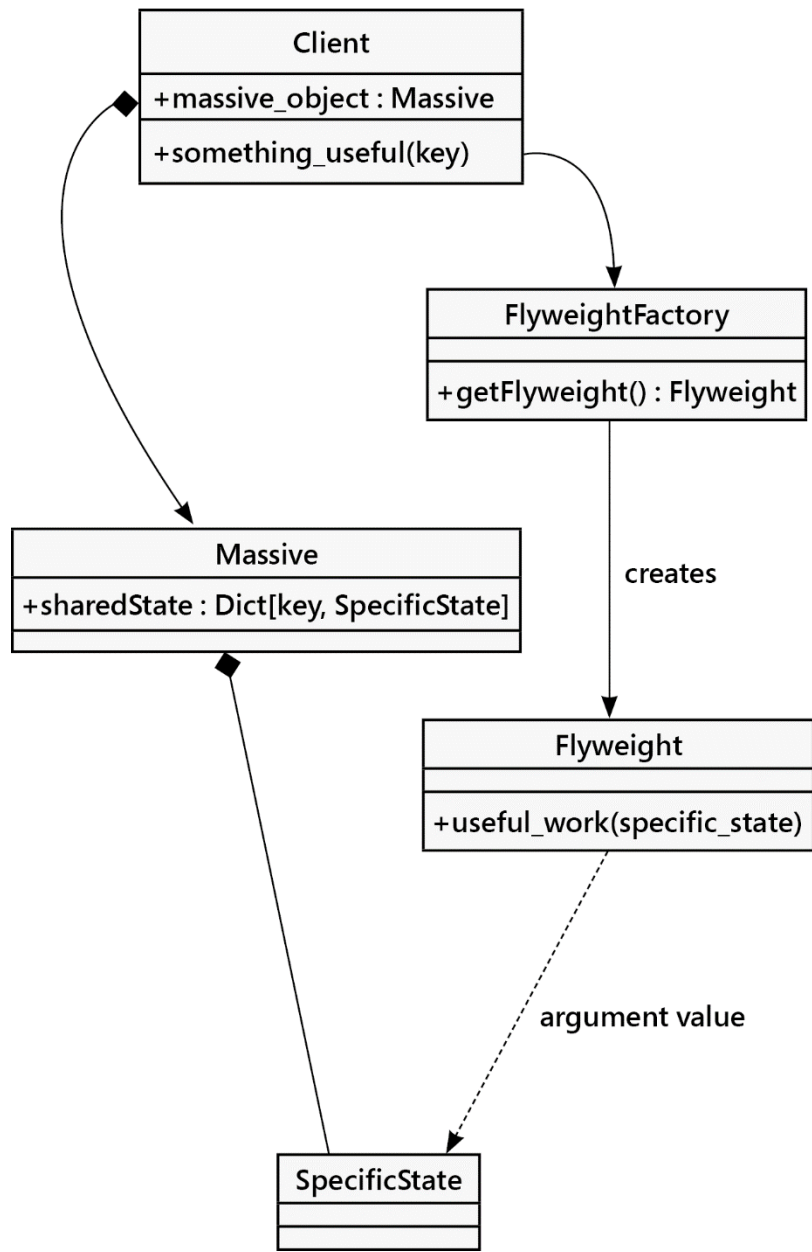


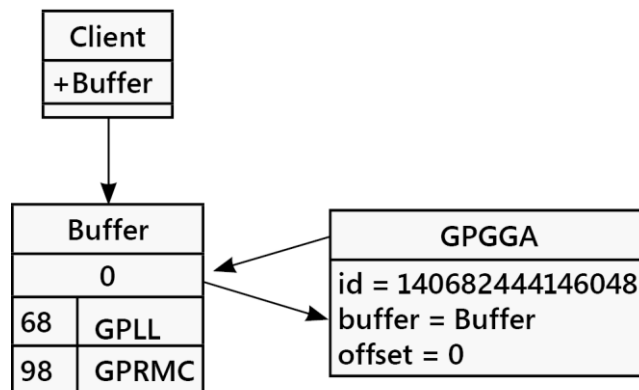
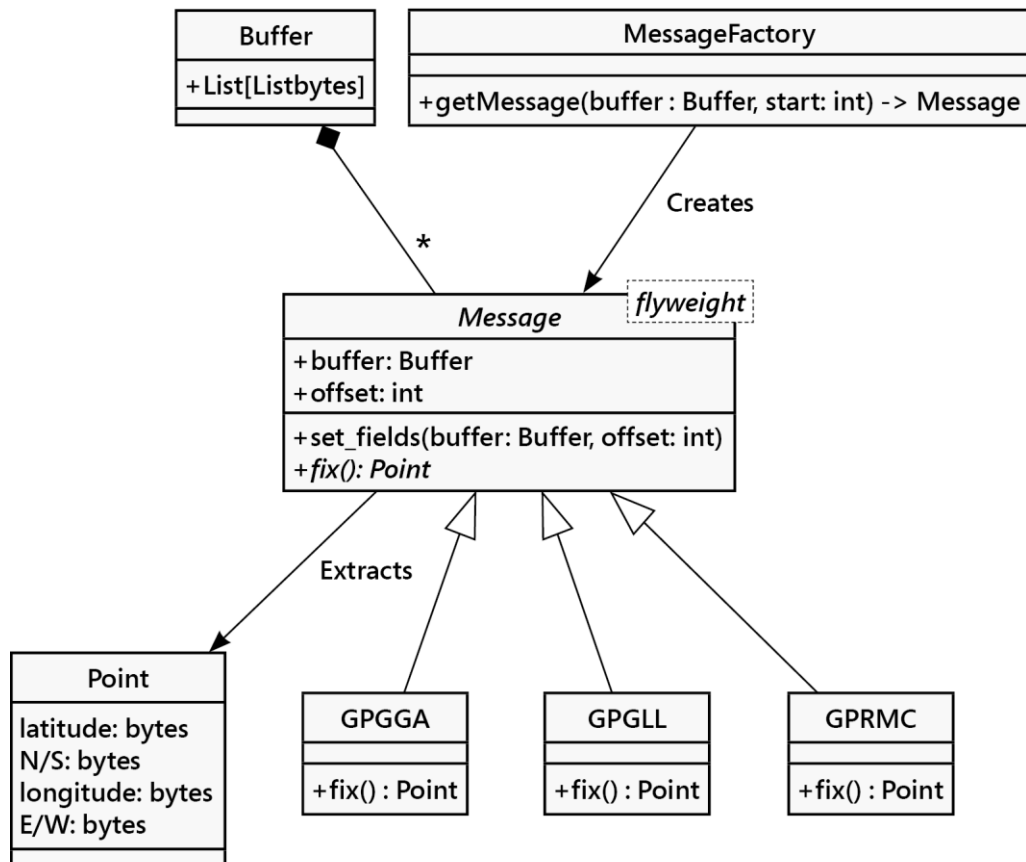


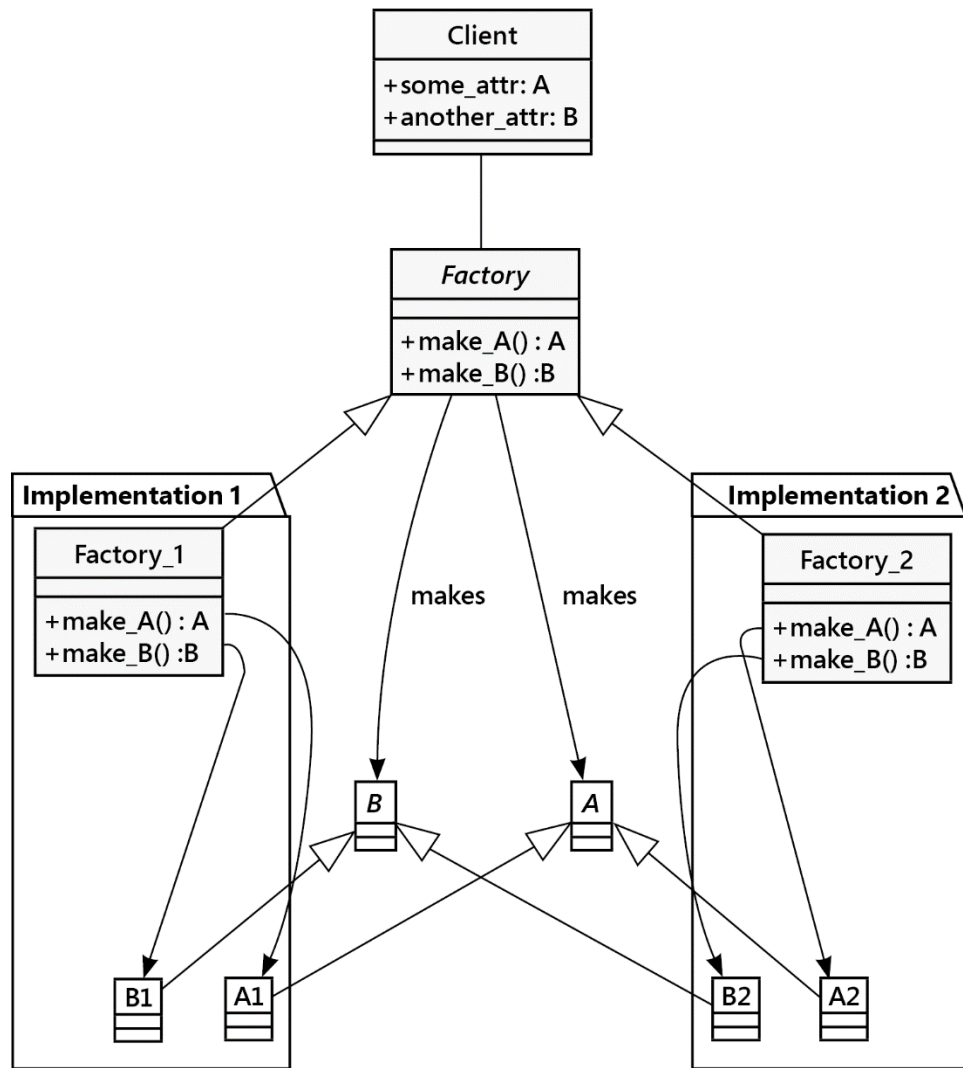


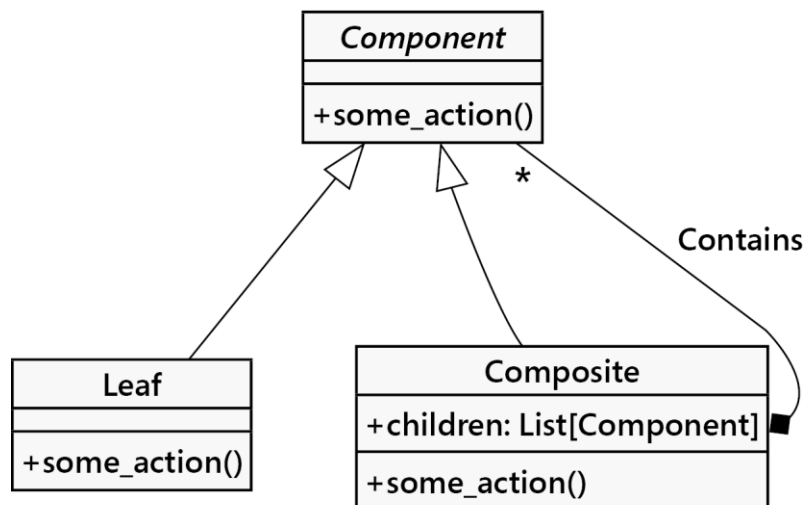
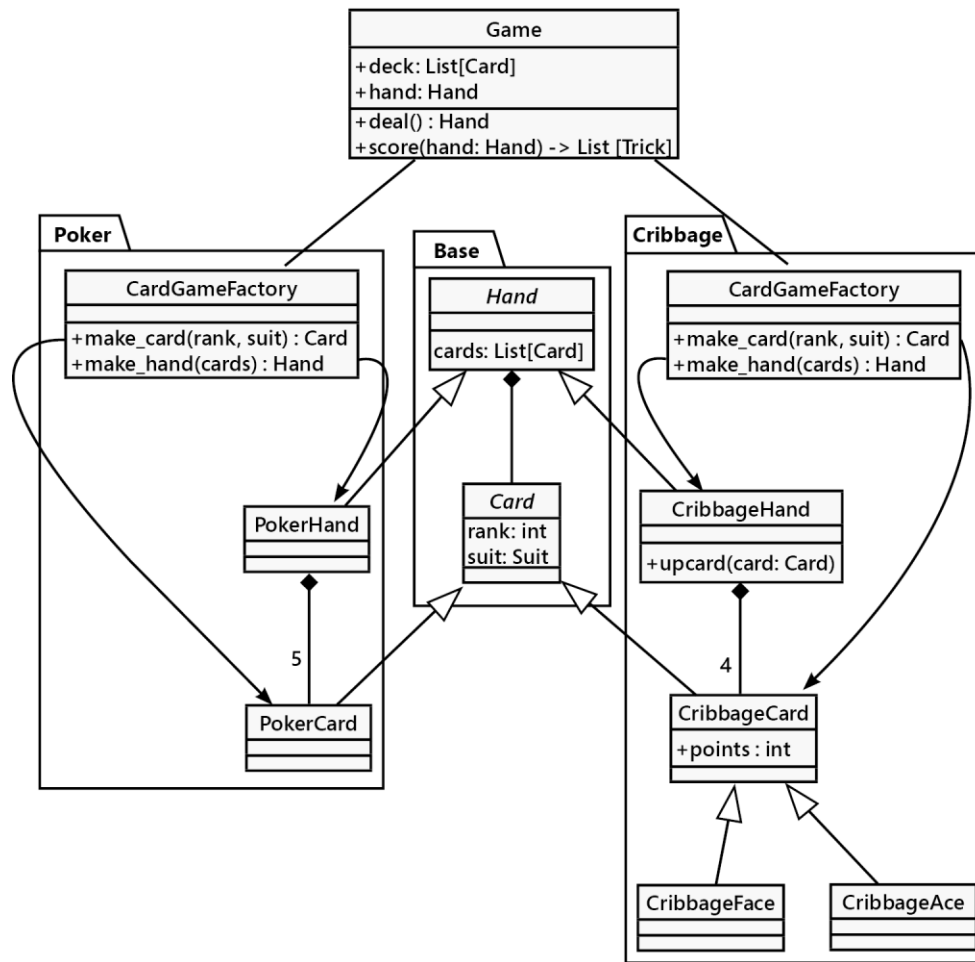
Chapter 12: Advanced Design Patterns

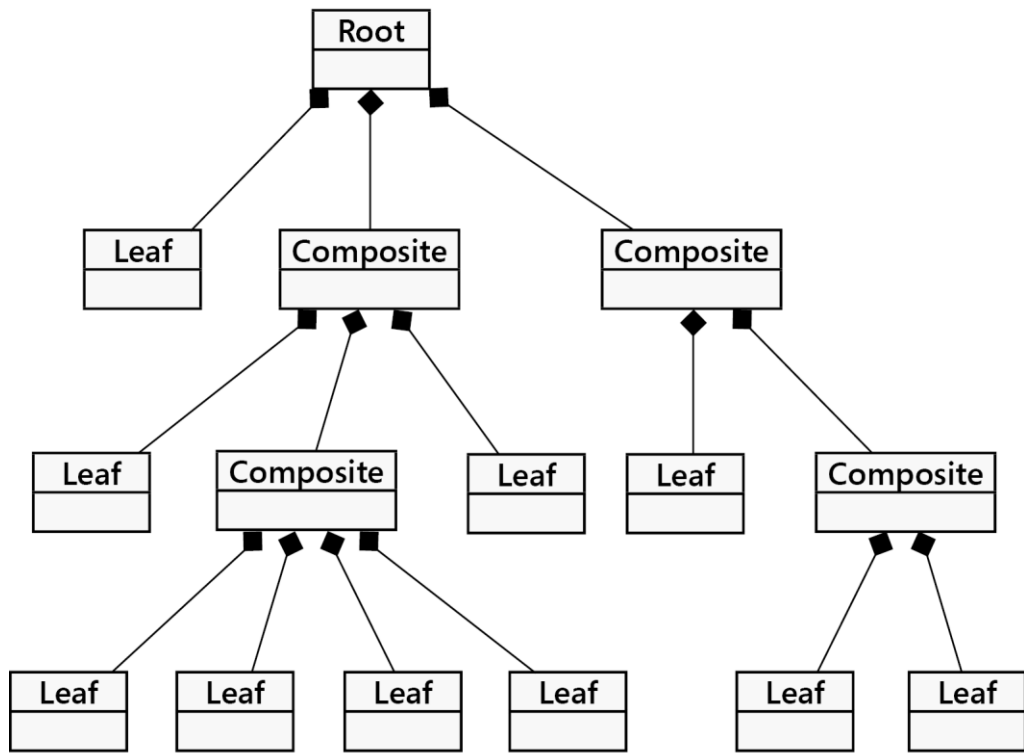


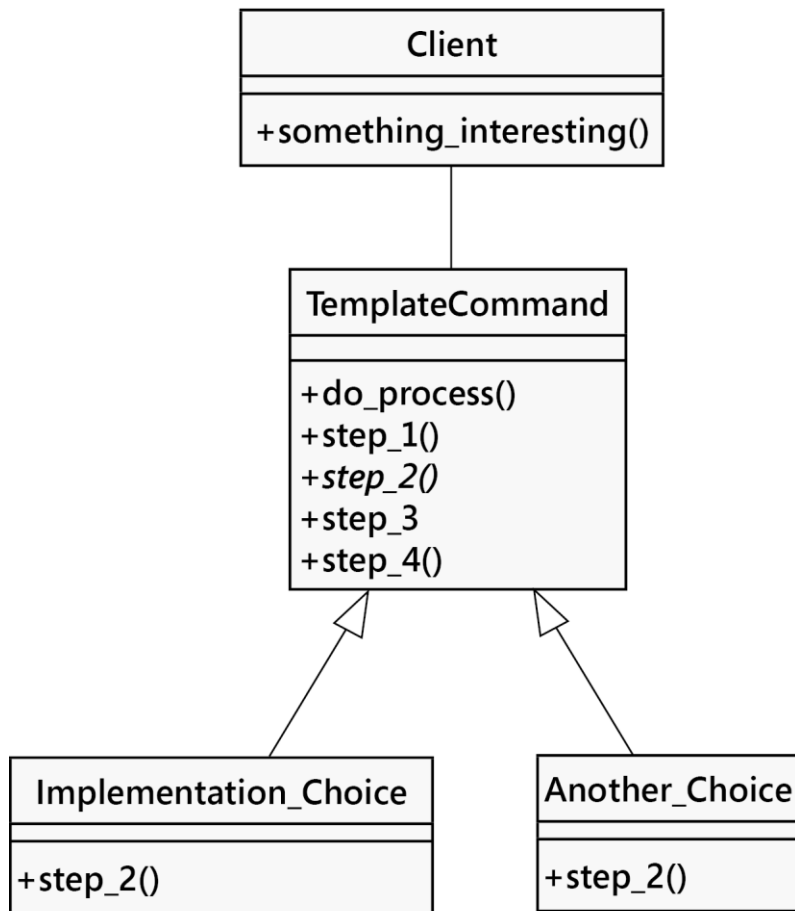


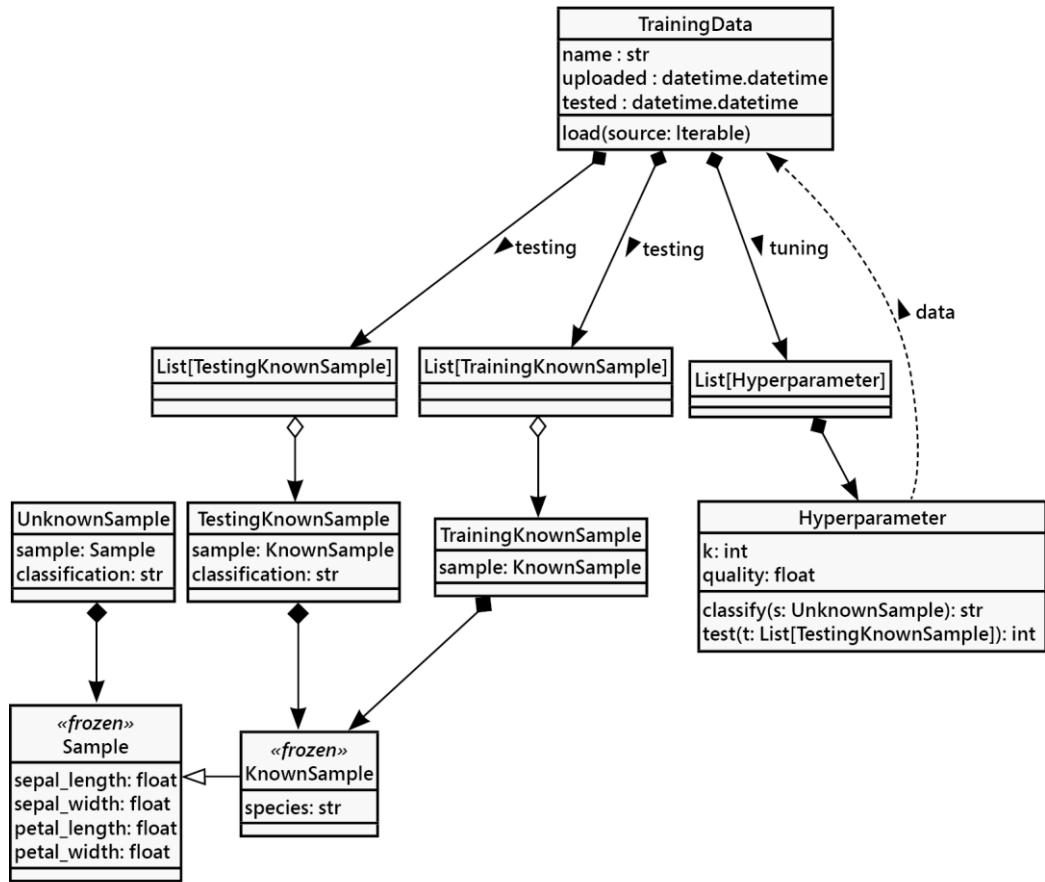




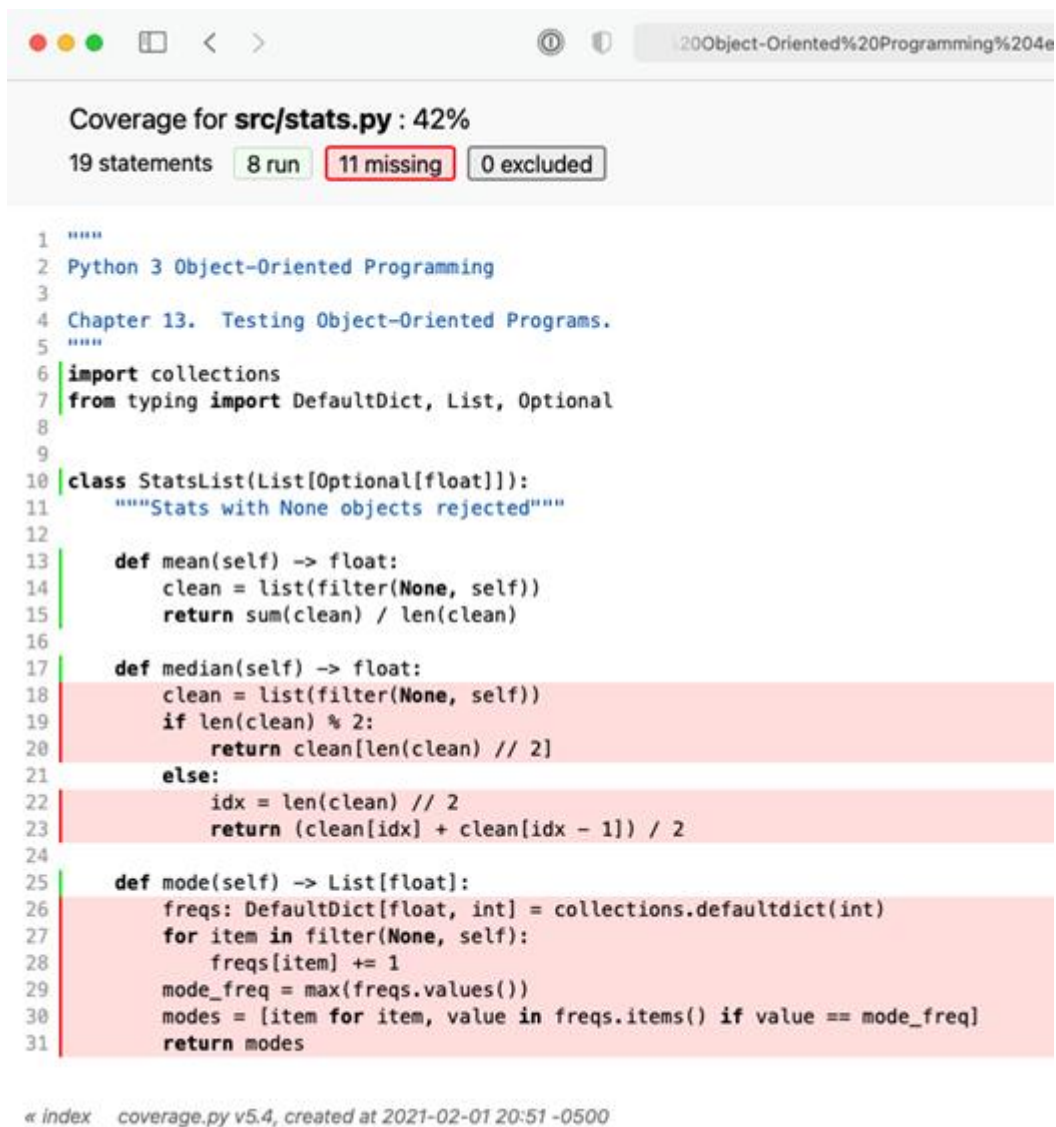








Chapter 13: Testing Object-Oriented Programs



Coverage for **src/stats.py** : 42%

19 statements 8 run 11 missing 0 excluded

```
1 """
2 Python 3 Object-Oriented Programming
3
4 Chapter 13. Testing Object-Oriented Programs.
5 """
6 import collections
7 from typing import DefaultDict, List, Optional
8
9
10 class StatsList(List[Optional[float]]):
11     """Stats with None objects rejected"""
12
13     def mean(self) -> float:
14         clean = list(filter(None, self))
15         return sum(clean) / len(clean)
16
17     def median(self) -> float:
18         clean = list(filter(None, self))
19         if len(clean) % 2:
20             return clean[len(clean) // 2]
21         else:
22             idx = len(clean) // 2
23             return (clean[idx] + clean[idx - 1]) / 2
24
25     def mode(self) -> List[float]:
26         freqs: DefaultDict[float, int] = collections.defaultdict(int)
27         for item in filter(None, self):
28             freqs[item] += 1
29         mode_freq = max(freqs.values())
30         modes = [item for item, value in freqs.items() if value == mode_freq]
31         return modes
```

« index coverage.py v5.4, created at 2021-02-01 20:51 -0500

Chapter 14: Concurrency

