

# COMP2511

23T1 Week 10

WEDNESDAY 1PM - 4PM (W13B)

FRIDAY 11AM - 2PM (F11A)

Slides by Alvin Cherk (z5311001)

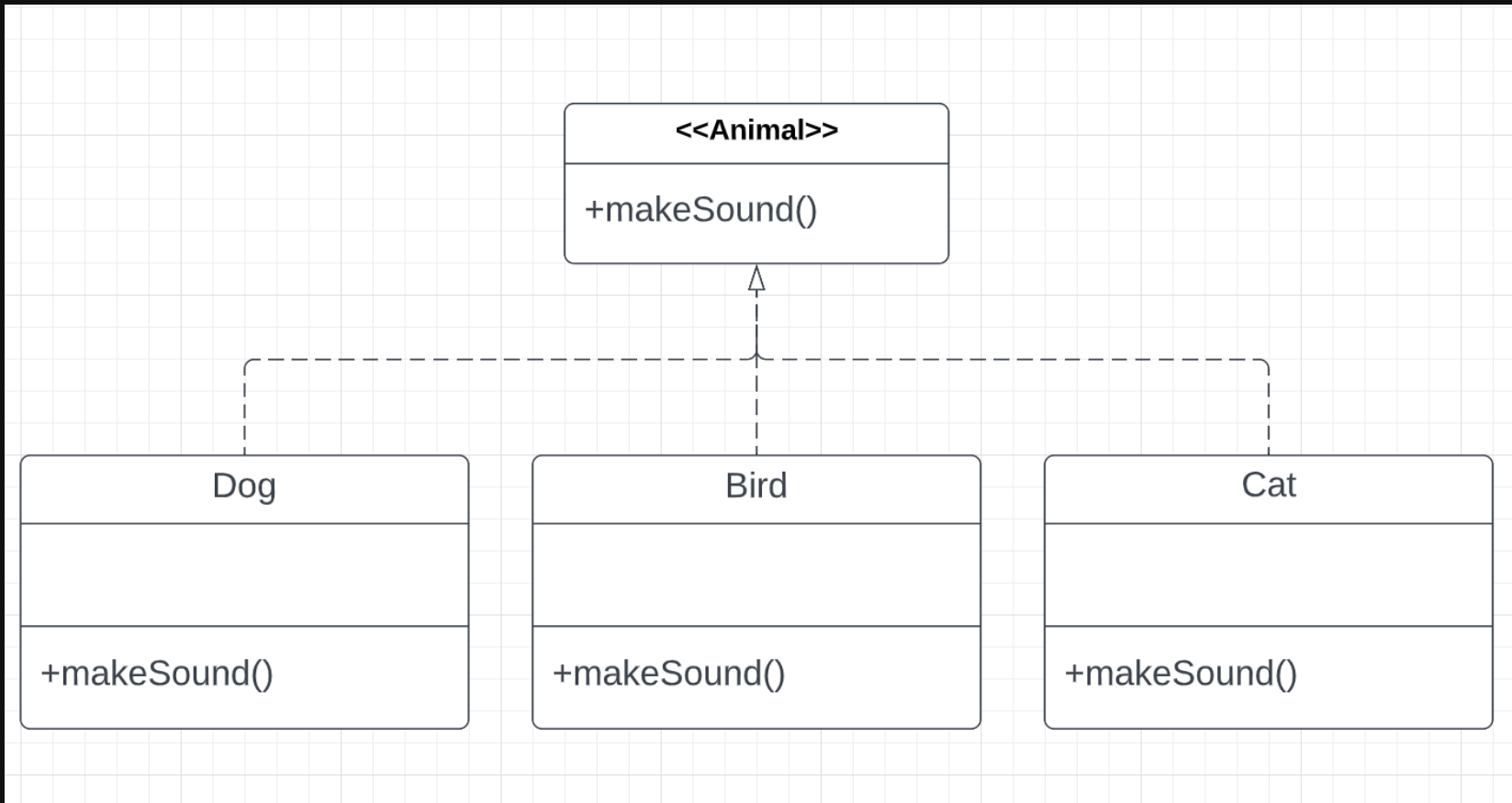
# MyExperience

Please fill it in (10 mins)

# Visitor Pattern

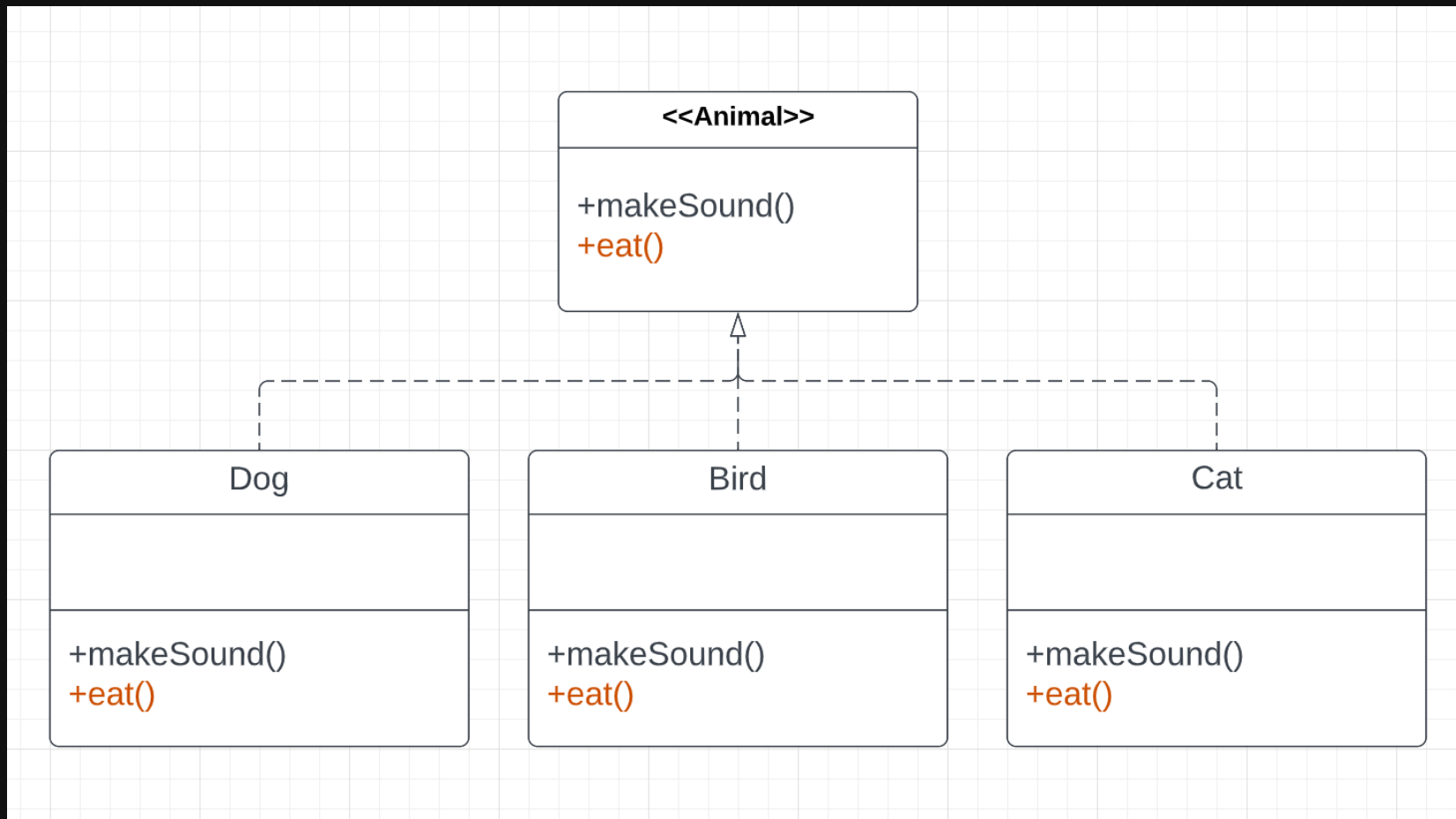
# Visitor Pattern

Problem: How do I add extra functionalities to subclasses without violating open/closed principle.



# Visitor Pattern

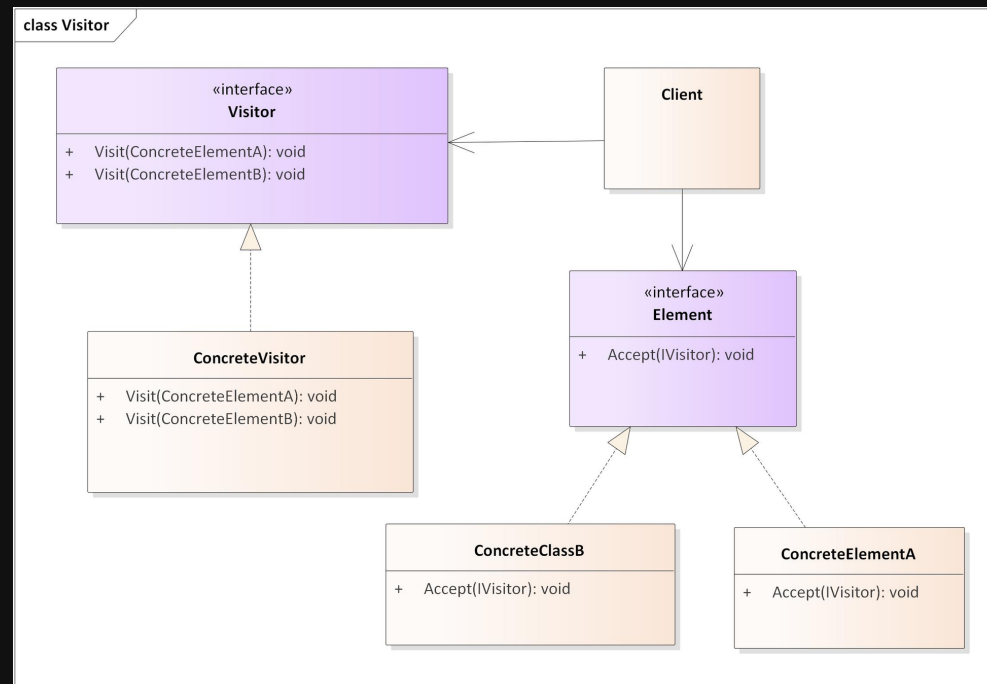
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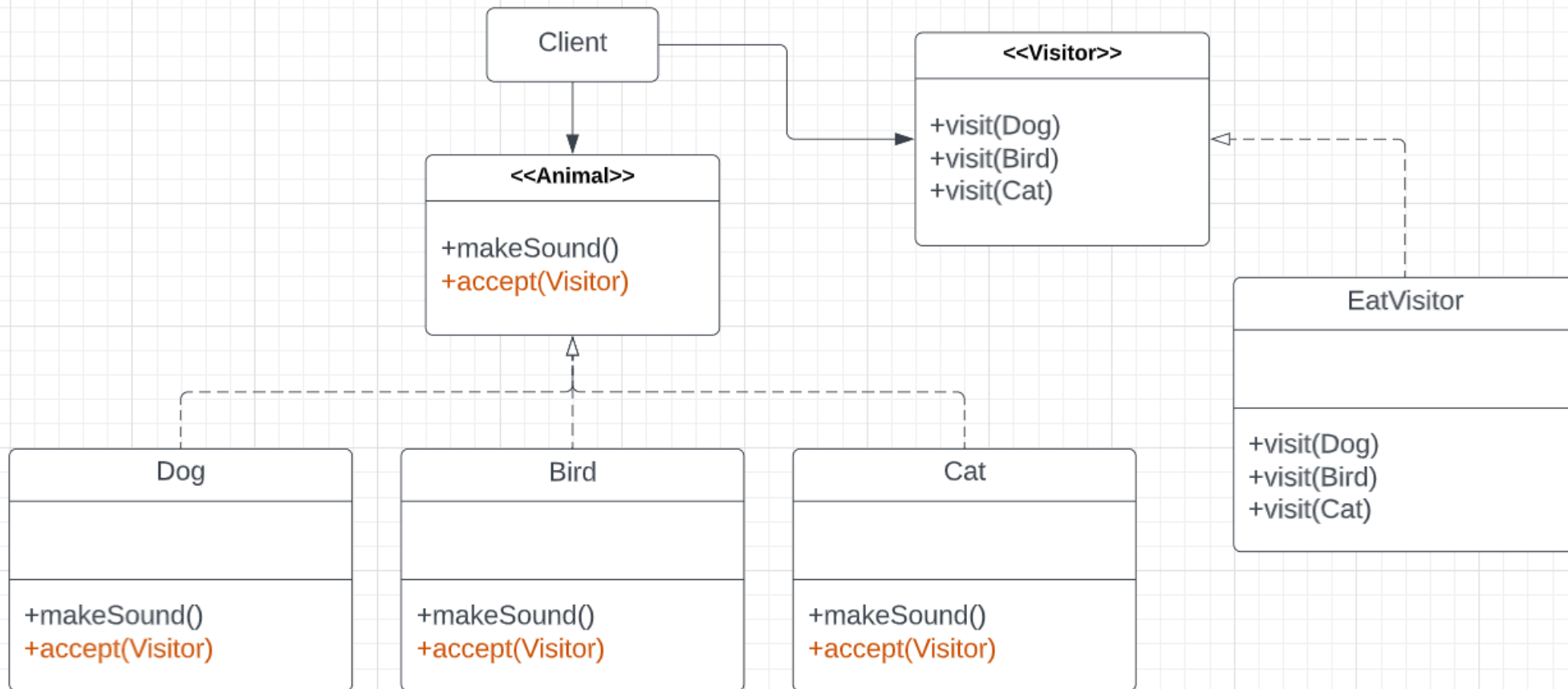


# Visitor Pattern

## Behavioural Pattern

- Adds extra functionality to class without modifying the original (abides by open closed principle)
- One class/interface (visitor) defines a computation/operation and another (visitable) is responsible for providing data access





# Kahoot



# Exam Tips

# Exam Tips

- Practice good exam techniques.
- Get familiar with writing Java & Generics
- Learn the patterns and the differences (YouTube has some really good resources if you don't understand certain ones).
- Know code smells and methods of refactoring

# Code Demo

Computer.java

# Code Demo

In this scenario we have Computers, Keyboards and Mouses which all are of type **ComputerComponent**. We want to be able to 'visit' different types of Computer components by logging the following messages:

```
1 Looking at computer Corelli with memory 500 GB.  
2 Looking at keyboard Mechanical keyboard which has 36 keys.  
3 Looking at mouse Bluetooth mouse.
```

In particular though, anyone which is visiting a **Computer** must be **validated** prior to being able to visit.

Extend/modify the starter code to use the Visitor Pattern to allow different computer components to be visited.

# Attendance

# Feedback



<https://forms.gle/R4sMTTQzPC4vqXSN8>