

Model-View-Controller

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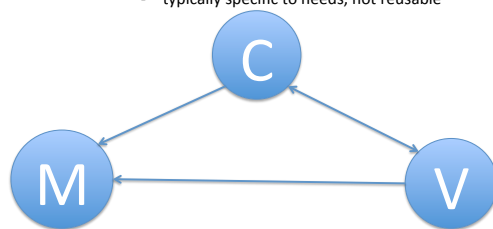
MVC

- An architectural pattern used in programs with graphical user interfaces (GUI)
- Model-View-Controller:
 - An object in the program takes one of these 3 “roles”

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- make modifications to the model
- notify view for an update
- receive events from the view
- query model to get the data
- typically specific to needs, not reusable



- Does not know anything about the controller, nor the view
- encapsulates program logic
- controller may register to model as an observer

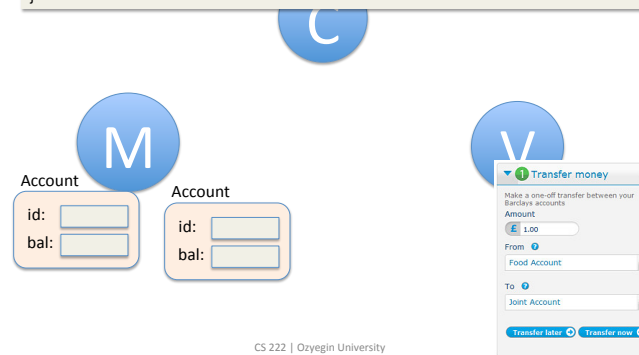
- Reusable GUI components (buttons, text fields, etc)
- Does not modify model
- May query model's data to update display

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```

void transferButtonClicked() {
    Account accountFrom = findAccount(accountChooser1.getText());
    Account accountTo = findAccount(accountChooser2.getText());
    double amount = Double.parseDouble(amountTextField.getText());
    accountFrom.withdraw(amount);
    accountTo.deposit(amount);
}
  
```



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