

# Data Classes



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# Overview

**Why data classes?**

**Creating data classes**

**Overriding functionality**

**Overriding the behaviour**

**Copying and destructuring**



# What Is a Data Class?

Many times in code we need to model data

- But no behaviour

We need ‘data transfer objects’ (DTOs)

- Moving data to and from a database
- Sending data over HTTP
- Storing data in collections



# All Classes

**Derive from Any**

**Any provides**

- **toString**
- **hashCode**
- **equals**

**Dtos should override these**

- Especially when comparing for collections
- Can be tedious



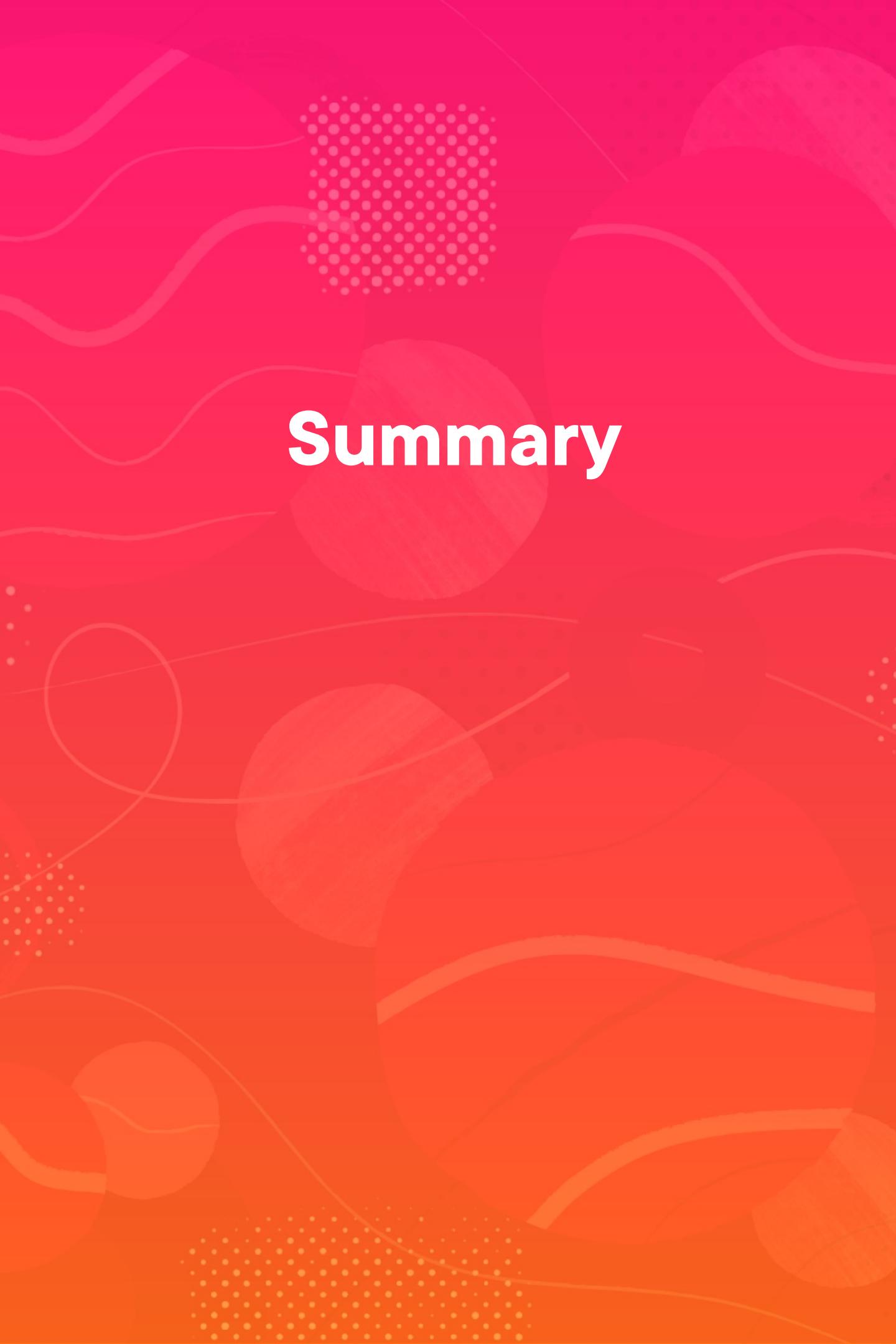
# Data Classes

Provide implementations of

- `toString`
- `hashCode`
- `equals`

Also add some other useful functionality





# Summary

## Why data classes?

- Provide the functionality of DTOs
- Override hashCode, equals and toString

## Creating data classes

- ‘data class’

## Overriding functionality

- Provide our own implementations of hashCode, equals or toString

## Overriding the behaviour

- Move properties into the body of the class



# Summary

## Copying and destructuring

- Can replace values when copying
- Can extract all properties into variables



# Other Class Types

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