

Enum with
Associated Values

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Enum Cases

• Each case of an enum type is defined as a constant

enum Status {
 case onTime
 case cancelled
 case delayed
}

Status.onTime
Status.cancelled
Status.delayed

Enum with Associated Values

• Each case of an enum type may also have one or more associated values

• Provide detailed information about each case

• Different cases may have different associated values

enum Status {
 case onTime
 case cancelled
 case delayed(Int)
}

Status.onTime
Status.cancelled
Status.delayed(45)

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An Example of Associated Value

class Flight {
 enum Status {
 case onTime
 case cancelled
 case delayed(Int)
 }
 var code: String
 var status: Status
 init(code: String, status: Status) {
 self.code = code
 self.status = status
 }
}

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An Example of Associated Value

let flights = [
 Flight(code: "BA 123", status: .onTime),
 Flight(code: "CA 456", status: .cancelled),
 Flight(code: "UA 789", status: .delayed(45)),

l

for f in flights {
 switch f.status {
 case .onTime:
 print("Flight \(f.code) is on time.")
 case .cancelled:
 print("Flight \(f.code) is cancelled.")
 case .delayed:
 print("Flight \(f.code) is delayed.")
 }
}

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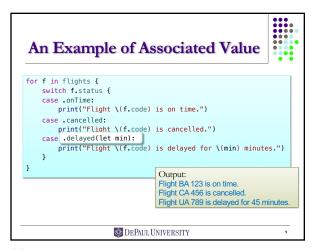
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