

Immutability, Ranges and Expressions



Kevin Jones

@kevinrjones

Overview

‘if’ as an expressions

‘val’ vs ‘var’

Iteration and ranges



Exceptions

Kotlin runs (mostly) on the JVM

JVM throws exceptions

Runtime exceptions

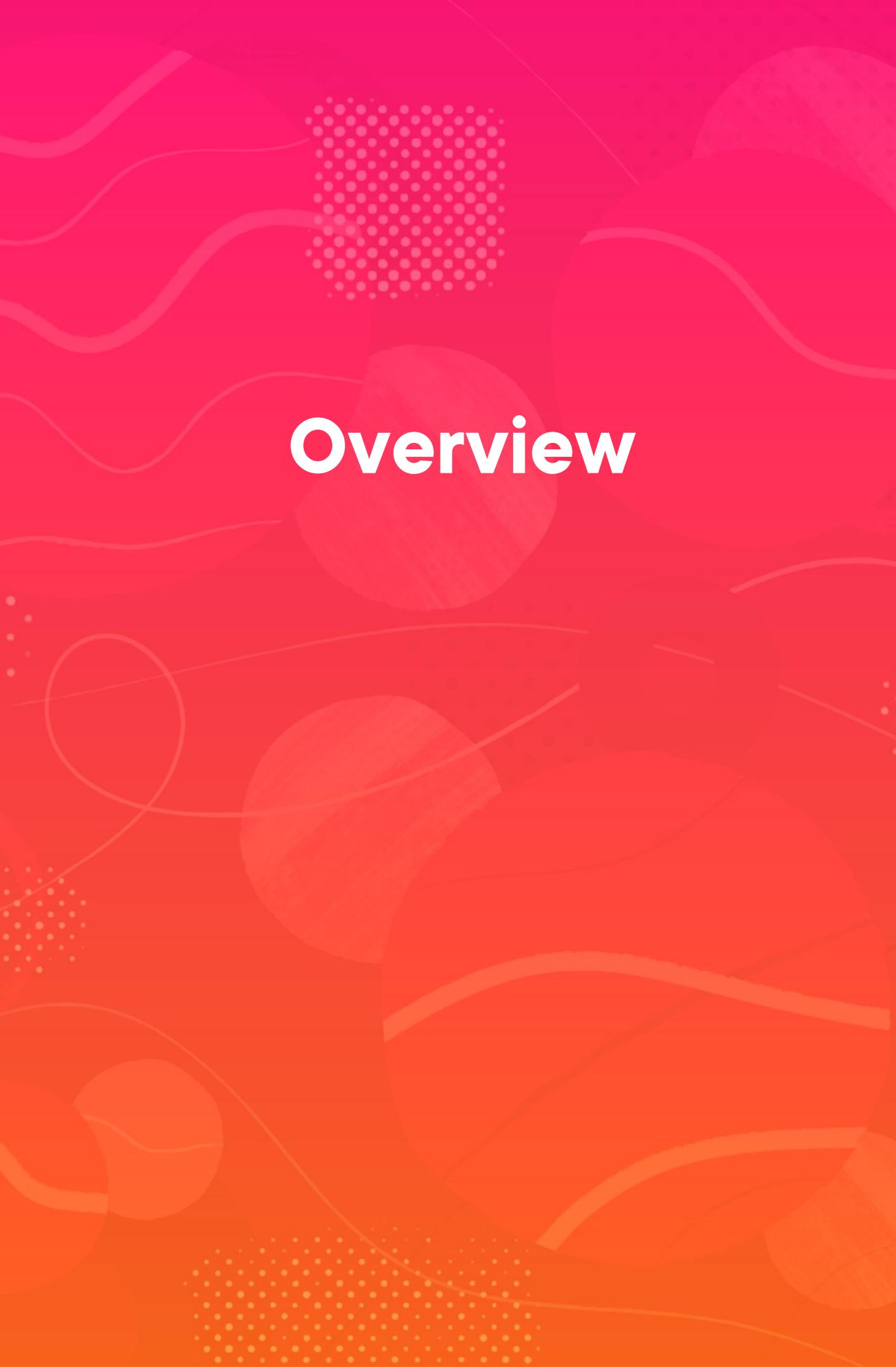
Application exceptions



Java Exceptions

Unchecked
Checked





Overview

‘if’ expressions

Exceptions

‘try’ expressions

‘while’ and ‘do..while’

Ranges

‘for’ loops

‘when’ expressions





Summary

‘if’ expressions

- Can return values from an ‘if’
- No ternary operator in Kotlin

Exceptions

- No checked exceptions
- Can still use try..catch..finally

‘try’ expressions

- try is also an expression



Summary

‘while’ and ‘do..while’

- Standard looping constructs
- Also support break and continue
- Can label the loop and break (or continue) to that label

Ranges

- Ranges of numbers or characters
- Ranges of any ‘comparable’ type



Summary

'for' loops

- Iterate over ranges
- Can iterate 'down' as well as 'up'
- Can step in the iteration
- Can do 'half-closed' iteration (using 'until')



Summary

'when' expressions

- Can be a simple replacement for 'switch'
- Is an expression
- Can include ranges
- Can include negation
- Can be 'mixed'
- May be exhaustive



Classes and Interfaces

