Java Fundamentals, Part 2

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Course Overview

- Building on concepts from Part 1
- Language features
- Java Class Libraries

Course Overview

- **Topics covered**
  - Exception Handling
  - Collections
  - Enumerations
  - I/O
  - Annotations
  - Threading

Exception Handling

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Outline

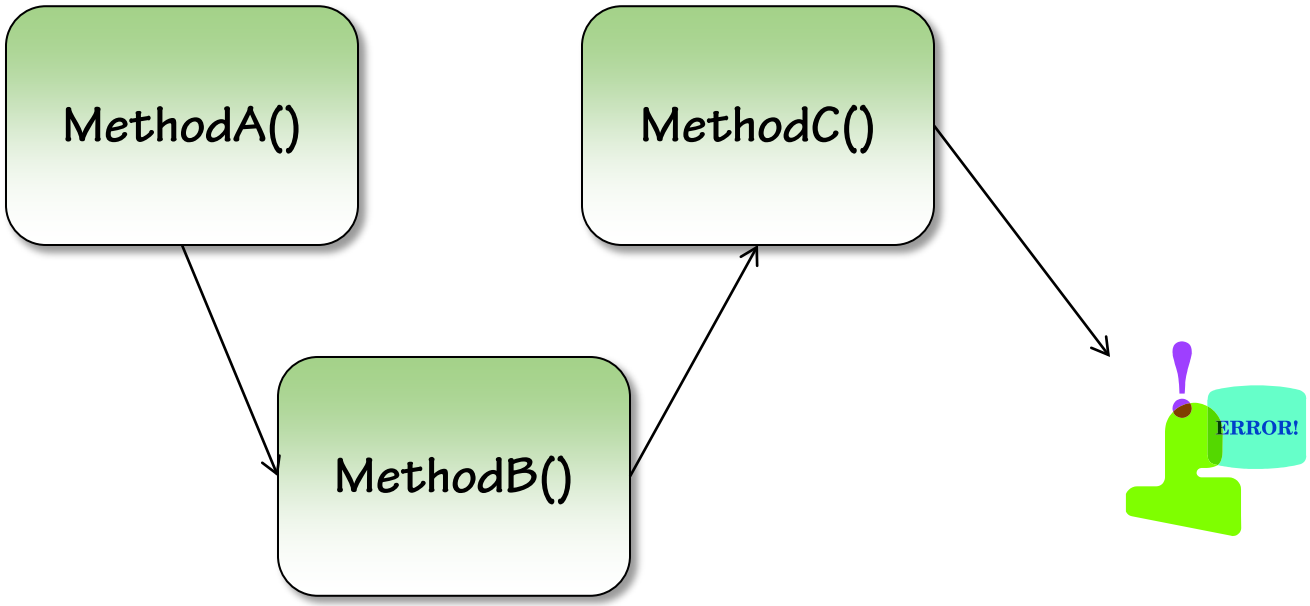
- Understanding Exceptions
- Try and Catch
- Finally
- Checked and Unchecked
- Best Practices

Understanding Exceptions

- Way to handle errors
- Special object that indicates an error
- Exceptions that are not dealt with crash the application

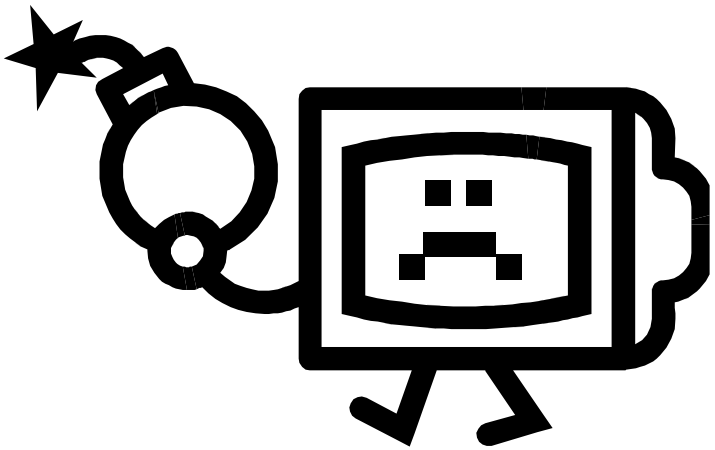
Exceptions

- Cleaner than error codes



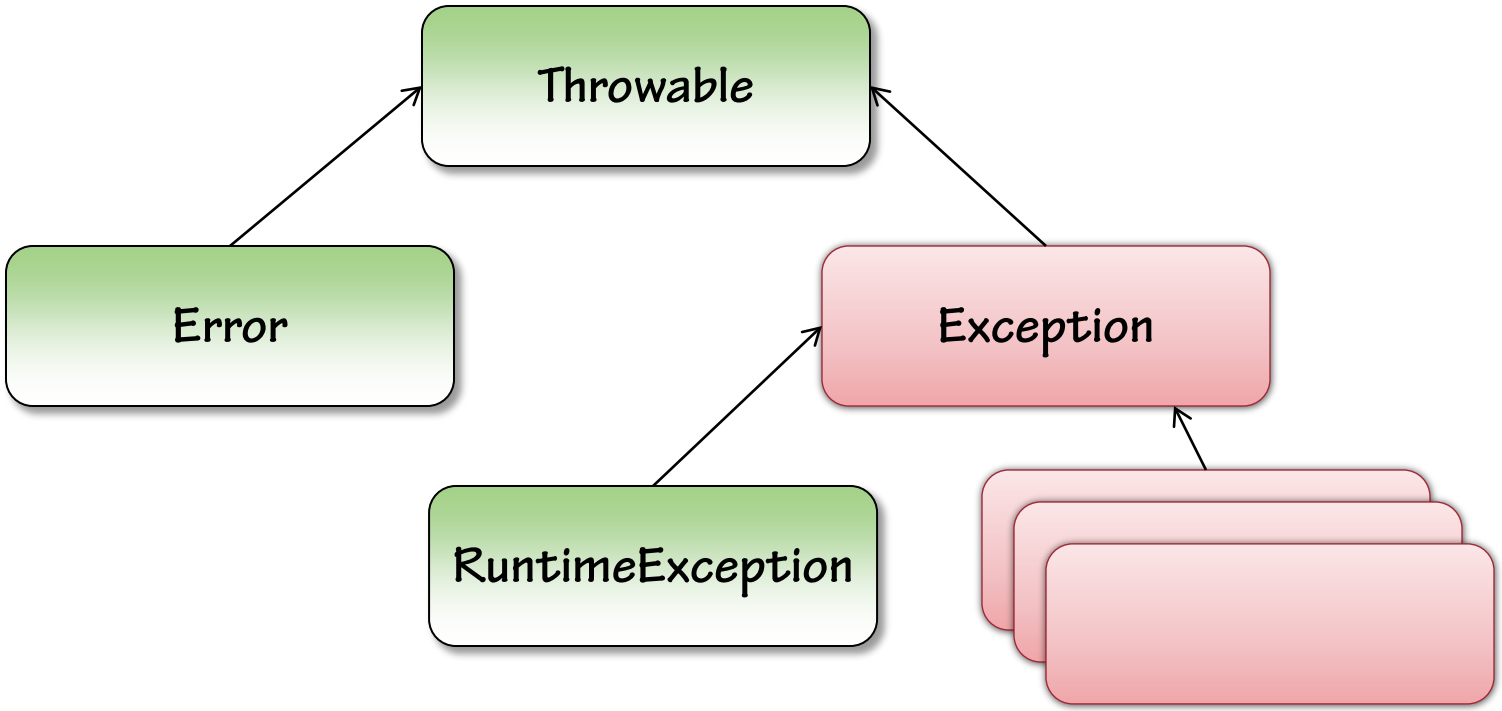
Types of Exceptions

- **Two main types**
  - Checked
  - Unchecked



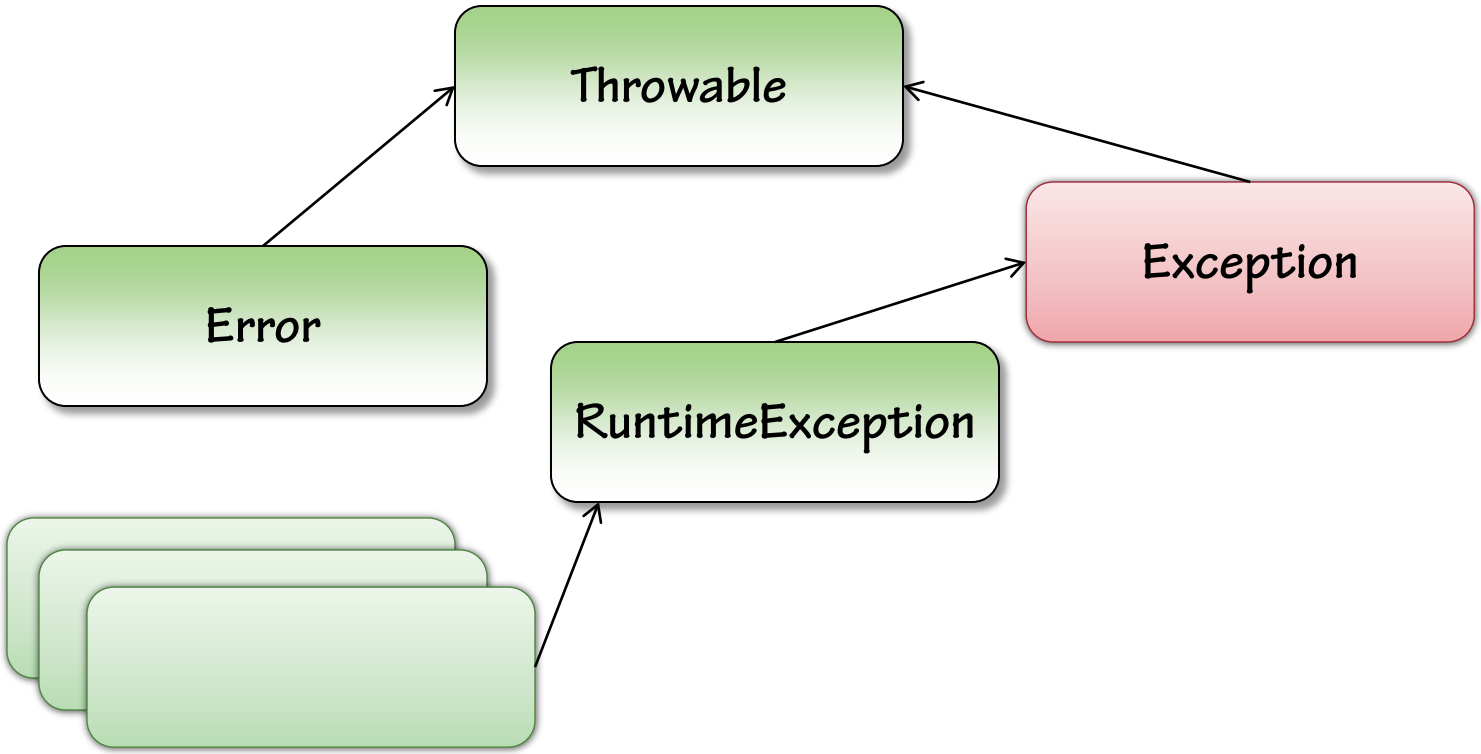
Checked Exceptions

- Catch or specify
- Subclasses Exception



Unchecked Exceptions

- Not expected to handle
- Subclasses Error or RuntimeException

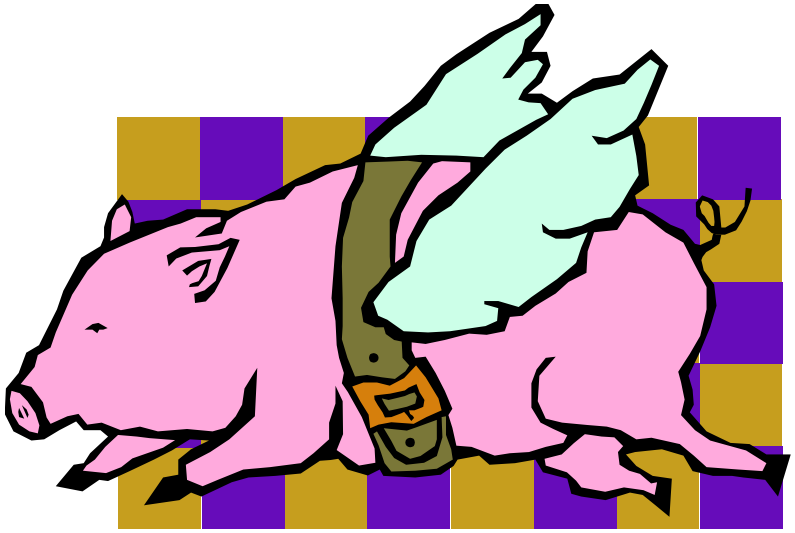


Best Practices

- #1 Catch as specific an exception as possible

Best Practices

- **#2 Exceptions are for "exceptional" situations**
  - Debatable



Best Practices

- #3 Don't catch errors

Best Practices

- **#4 Don't catch exceptions that you aren't going to do something with**
  - This is called "eating" an exception

Summary

- Understanding Exceptions
- Try and Catch
- Finally
- Checked and Unchecked
- Best Practices