

- +

Frontend<sup>β</sup>

0 / 24 topics
- +

Math<sup>β</sup>

0 / 29 topics
- +

Algorithms

50 / 50 topics
- +

Databases and SQL<sup>β</sup>

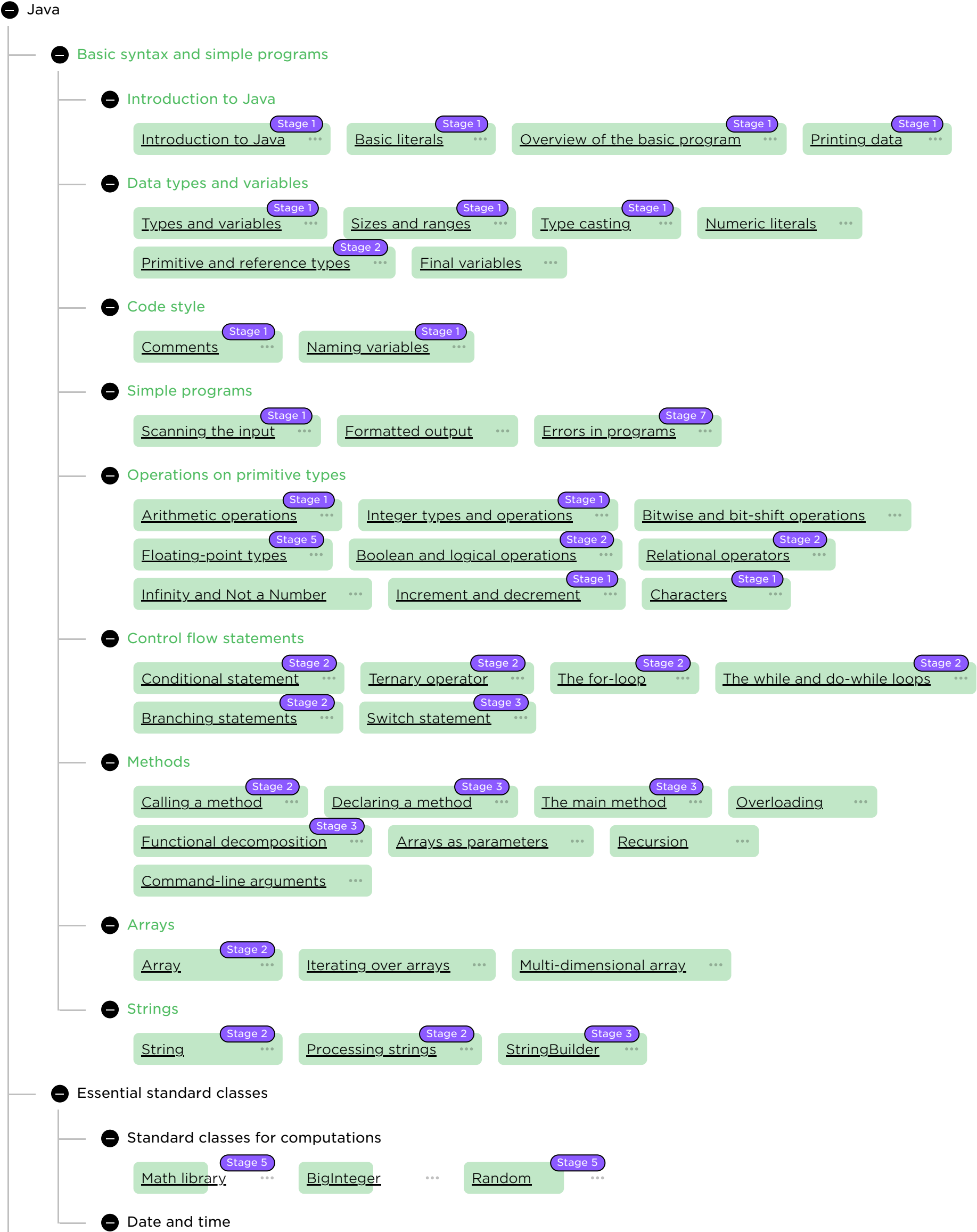
0 / 17 topics
- +

Essentials

9 / 31 topics
- +

Dev tools

3 / 18 topics



[LocalDate](#) ... [LocalTime](#) ... [LocalDateTime](#) ... [Comparing dates and time](#) ...

Implementation of basic algorithms

Introduction to algorithms

[Algorithms in Java](#) ... [Finding max and min in arrays](#) ...

Search algorithms

[Linear search in Java](#) ... [Binary search in Java](#) ... [Jump search in Java](#) ...

Sorting algorithms

[Selection sort in Java](#) ... [Bubble sort in Java](#) ... [Insertion sort in Java](#) ... [Counting sort in Java](#) ...  
[Merge sort in Java](#) ... [Quicksort in Java](#) ...

String algorithms

[Edit distance in Java](#) ... [Edit distance alignment in Java](#) ... [Hamming distance in Java](#) ...  
[Searching a substring in Java](#) ... [Knuth-Morris-Pratt algorithm in Java](#) ... [Rabin-Karp algorithm in Java](#) ...

Various data structures

[Dynamic array in Java](#) ... [Doubly linked list in Java](#) ... [Trees in Java](#) ... [Binary search tree in Java](#) ...  
[Binary heap in Java](#) ... [Hash table in Java](#) ...

Regular expressions

[Regexps in Java](#) ... [Sets, ranges, alternations](#) ... [Shorthands](#) ... [Quantifiers](#) ...  
[Regexes in programs](#) ... [Patterns and Matcher](#) ... [Replacing characters](#) ... [Match results](#) ...

IO streams

[What are streams](#) ... [Output streams](#) ... [Input streams](#) ...

Spring Boot

[Introduction to Spring Boot](#) ... [Getting started with Spring Boot](#) ... [Basic project structure](#) ...  
[Rest controller](#) ... [Passing JSON to server](#) ... [Beans and components](#) ... [Exception handling](#) ...  
[Bean Validation](#) ...  
+ Accessing data 0 / 3 topics  
[CRUD Repositories](#) ...

Scala<sup>β</sup>

[Introduction to Scala](#) ... [Overview of the basic program](#) ... [Basic literals](#) ... [Values and variables](#) ...  
[Functions introduction](#) ... [Introduction to collections](#) ... [Branching](#) ... [Tuples](#) ...

+ Java internals 2 / 7 topics

+ Object-oriented programming 19 / 41 topics

+ Exception handling 1 / 7 topics

Design patterns

[Singleton](#) ... [Strategy](#) ... [Encapsulating object creation](#) ... [Command](#) ...  
[Builder](#) ... [Decorator](#) ... [Factory method](#) ... [Template method](#) ... [Observer](#) ...  
[Facade](#) ... [Abstract factory](#) ...

Generics

[Generic programming](#) ... [Generics and Object](#) ... [Generic methods](#) ... [Type Bounds](#) ...

