



05 December 2023

Nim


CSLP

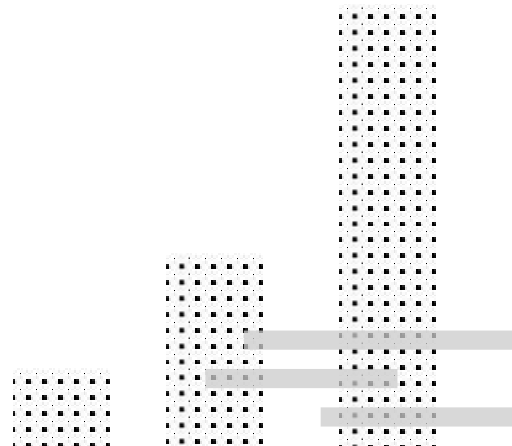
Group 6:

- Pedro Ponte 98059
- André Cardoso 108269
- Bruno Páscoa 107418



Why nim?

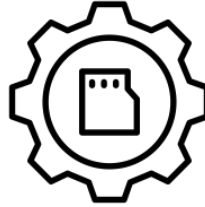
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- Syntax
 - Performance
 - Flexibility



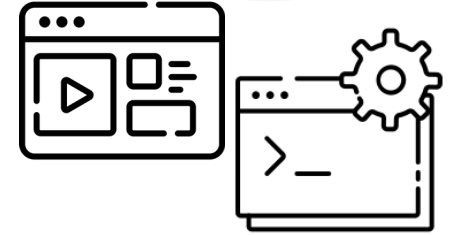
Features



Executables



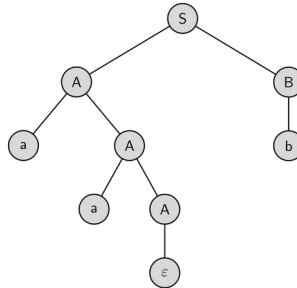
**Memory
management**



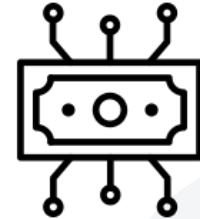
**Front-End /
Back-End**



Self-contained



Macros



Concurrency

Data Structures

Lists, Sets, Hash Tables, Bitsets,
etc.

File I/O

File manipulation,
File system traversal, Streams,
etc.

Networking

Sockets, HTTP and
other Network Protocols

Concurrency

Threads, Locks, Channels,
Async/Await support

Mathematics

Basic math operations, Complex
Numbers, Trigonometry, Statistics

Cryptography

Pseudo random number
generation, Hashing, Encryption

Regular Expressions

Pattern Matching and Manipulation


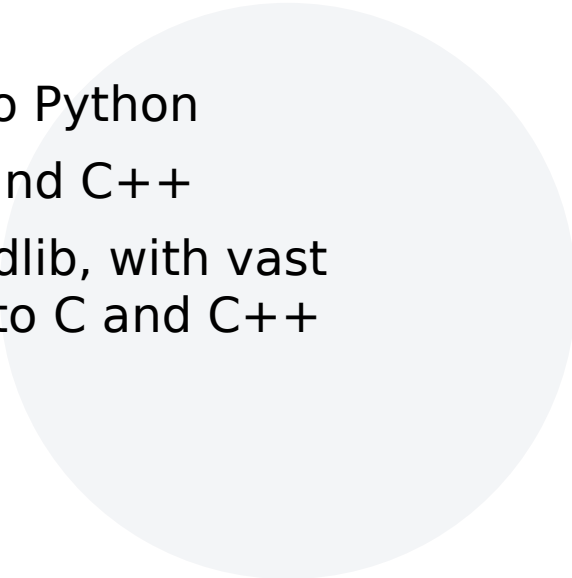
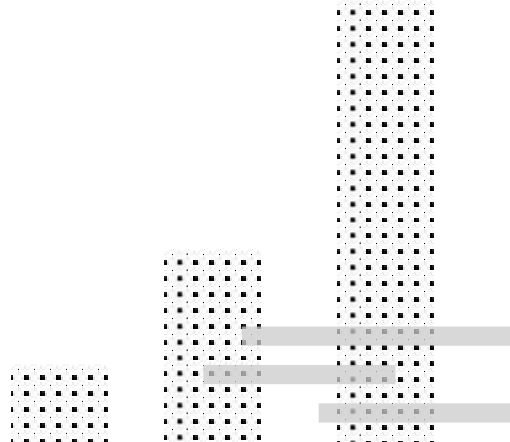
Date and Time

Timezone-aware date and time
operations





Conclusion

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- Syntax – Similar to Python
 - Performance – C and C++
 - Features – Rich stdlib, with vast array of bindings to C and C++ libraries
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Questions?

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