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Exercise: Under the Hood of the Snake: Behind the scenes of Python

Tuesday 25 March 2025 16:45 (1 hour)

Python is one of the most used programming languages in scientific computing - yet when discussed, we often admonish: "Python is slow!"

What does that mean in practice? Does it depend on the use case? Most importantly: what is Python doing under the hood?

Let's put our fangs into the inner workings of Python. I will talk about its design and what "Python is slow" means, what we are comparing to, and when this matters. Through examples we will see these things in action - both where the language is limited, and where the limitation might be your code...

Python is very flexible, which comes with trade-offs compared to languages like C++. However, "slow" is not an absolute term. There are good practices that can be applied to speed up our programs, saving both time and computing resources. With the right techniques, we can learn to charm the snake!

Attended school

CSC 2024 (Hamburg)

Number of exercise hours

1

Number of lecture hours

2

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