

Transparent, reproducible, and adaptable data analysis with Snakemake

Friday 10 February 2023 10:10 (30 minutes)

The Snakemake workflow management system is a tool to create transparent, reproducible and adaptable data analyses. Workflows are described via a human readable, Python based language. They can be seamlessly scaled to server, cluster, grid and cloud environments, without the need to modify the workflow definition. Finally, Snakemake workflows can entail a description of required software, which will be automatically deployed to any execution environment. With over 600,000 downloads and over 1600 citations (on average >7 per week), Snakemake is one of the most widely used systems for reproducible data analysis.

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