



# Nsight Compute

## User's Guide

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# Overview

This document is a user guide for the next-generation NVIDIA Nsight Compute profiling tools. The NVIDIA Nsight Compute is an interactive kernel profiler for CUDA applications. It provides detailed performance metrics and API debugging via a user interface and command line tool.

In addition, the baseline feature of this tool allows users to compare results within the tool. NVIDIA Nsight Compute provides a customizable and data-driven user interface, and metric collection, and can be extended with analysis scripts for post-processing results.

## Important Features

- ▶ Interactive kernel profiler and API debugger
- ▶ Graphical profile report
- ▶ Comparing results across one or multiple reports within the tool
- ▶ Fast Data Collection
- ▶ UI and Command Line interface
- ▶ Fully customizable reports and analysis rules

See [Nsight Compute documentation](#).