



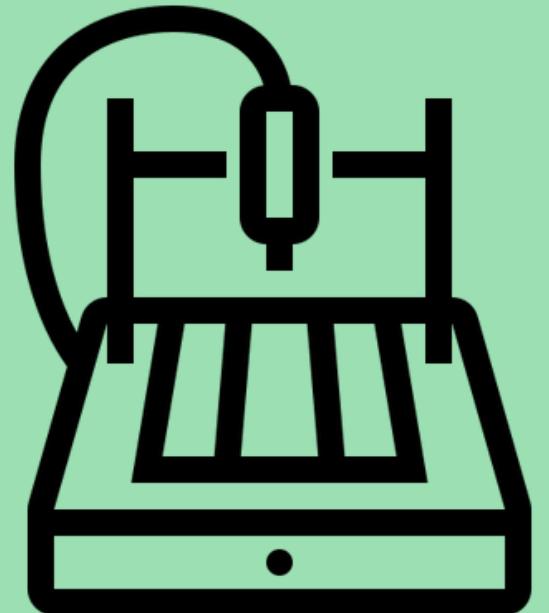
UniSIR Software Development Team presents



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DI BERGAMO

G-Code Shaper and Parser IDE

github.com/Team-di-Sviluppo-UniSIR/GCode-Shaper-Parser



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Introduction to the software
functionalities and why this is the tool
you're looking for

Topics

There are a few things we need to discuss before we get going



Who is this tool for?

What is G-Code?

The problem

The solution

How it works

How to get the most out of it

Demo

Who is this tool for?

This software is aimed at all those who study the GCODE programming language or whoever is involved in the development of CNC drawings, both from an academic or industrial point of view.



What is G-Code?

G-Code (also known as RS-274) is the most widely used computer numerical control (CNC) programming language. It is used mainly in computer-aided manufacturing to control automated machine tools, and has many variants.



WIKIPEDIA
The Free Encyclopedia

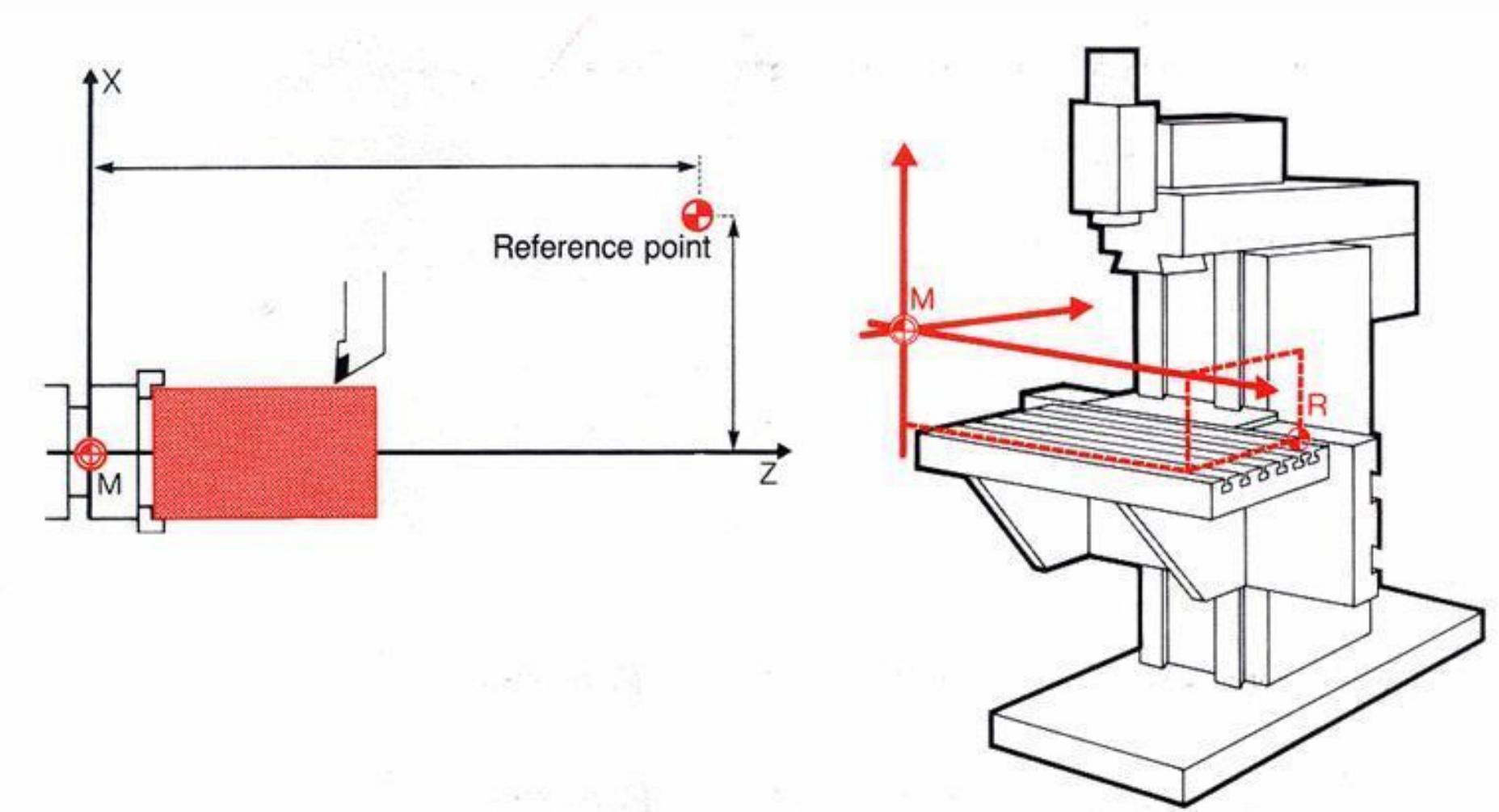
The G-Code programming language is used on machine tools, that are machines for handling or machining metal or other rigid materials, usually by cutting, boring, grinding, shearing, or other forms of deformations



The problem

txt

txt



A close-up photograph of a person's hands and face. The person is wearing a blue and white checkered shirt and is looking down at a white notebook. A white pen is held in their right hand, poised to write. The background is blurred, showing what appears to be a classroom or office setting.

The solution

txt

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How it works

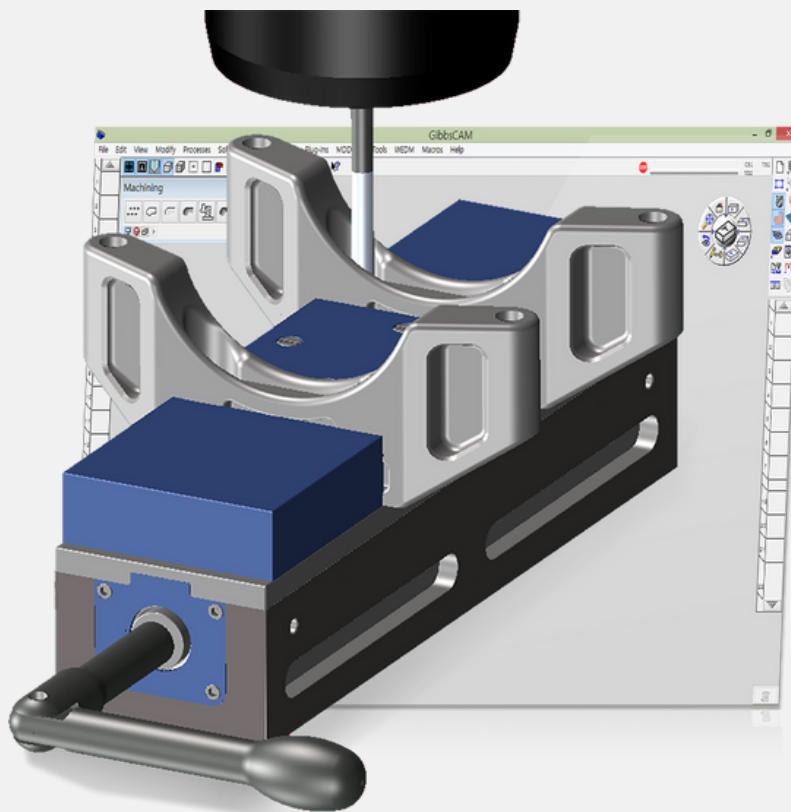
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How to get the most out of it



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Find us on GitHub

There's plenty of damn good documentation you can look up

github.com/Team-di-Sviluppo-UniSIR/GCode-Shaper-Parser



Screenshot of the GitHub repository page for `GCode-Shaper-Parser`.

The repository has 222 commits, 2 stars, 1 watching, and 1 fork.

Code tab (selected):

- Code: lucaghislio Updated jar folder (6 days ago)
- docs: update temp files (10 days ago)
- docs: Update README.md (7 days ago)
- errors: Update README.md (8 days ago)
- jars: Updated jar folder (6 days ago)
- libraries: Updated jar folder (6 days ago)
- .gitignore: Update .gitignore (4 months ago)
- project: Create .project (4 months ago)
- LICENSE: Initial commit (4 months ago)
- README.md: Update README.md (8 days ago)

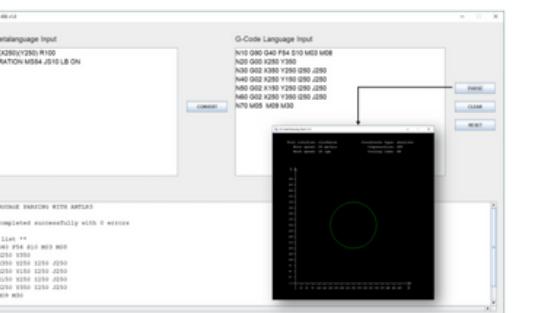
README.md

What are GCODE Parser and Shaper

`GCode-Shaper-Parser` aims to provide students an useful tool for understanding and practicing with G-code, a programming language for CNC machines:

- **GCODE Parser** is the main compiler developed for parsing G-code language and provide a graphical representation of the written code.
- **Shaper** is a metalinguage built upon G-code in order to simplify the definition of CNC commands and help the users understand the rules of G-code language.

Both GCODE Parser and Shaper are written in Java using ANTLR package.
`GCode-Shaper-IDE` is a GUI developed for helping users in the usage of `GCode-Shaper-Parser`.



Installation

`GCode-Shaper-IDE` v1.0 executable program can be downloaded from the [Releases](#) section of this repo ("GCodeShaperIDE.exe").

Docs

Helpful docs with syntax, examples and errors for understanding both **GCODE Parser** and **Shaper** are here provided:

1. [G-code Parser docs](#)
2. [Shaper docs](#)

Errors

All errors in G-code Parser and Shaper are here listed:

1. [G-code Parser error list](#)
2. [Shaper error list](#)

Contributors

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Demo

Now it's up to you

