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# Installation Guide: form, MaRTIn

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## Installing form

**Go to:** <https://github.com/form-dev/form> and clone the repository to your system

you find step-by-step instructions here:

<https://github.com/form-dev/form/blob/master/INSTALL>

→ read and follow all of it carefully (**NOT just the overview!**)

## Installing Prerequisites of MaRTIn

A detailed overview of all prerequisites is given in <https://arxiv.org/abs/2401.04033>

**The big ones:** QGRAF, form, richard\_draw

**Go to:** <http://cefema-gt.tecnico.ulisboa.pt/~paulo/d.html> and download then extract the latest stable version

**note:** username: anonymous (also the password if required)

**Install:** use your favorite **fortran** compiler to compile the ".f" (sometimes ".f08")

**Test:** run the file "qgraf.dat" using your installed QGRAF version (everything is good if you get 34098 connected diagrams)

## (macOS only)

MaRTIn (and richard\_draw) require GNU utilities, to make this work on macOS:

1. Install Developer Tools

**run:** `sudo xcode-select --install`

2. from <https://gist.github.com/skyzyx/3438280b18e4f7c490db8a2a2ca0b9da>  
install the GNU packages **coreutils**, **gawk**, **grep**, ... and make sure  
`/usr/local/opt/coreutils/libexec/gnubin` comes first in **\$PATH**

## (Windows only)

- Microsoft provides their very own subsystem for Linux

**Go to:** <https://learn.microsoft.com/de-de/windows/wsl/install>  
and follow the instructions there, then follow the instructions for Linux

**Note:** Installing a Linux subsystem is strongly recommended for your future life as physicists

## Installing Prerequisites of MaRTIn

A detailed overview of all prerequisites is given in <https://arxiv.org/abs/2401.04033>

**The big ones:** QGRAF, form, **richard\_draw**

**Go to:** [https://gitlab.com/manstam/richard\\_draw](https://gitlab.com/manstam/richard_draw) and clone the repository to your system

**Test:** follow the instructions from [https://gitlab.com/manstam/richard\\_draw/-/blob/main/example\\_suite/README?ref\\_type=heads](https://gitlab.com/manstam/richard_draw/-/blob/main/example_suite/README?ref_type=heads)

## Installing MaRTIn

**Go to:** <https://gitlab.com/manstam/martin> and clone the repository to your system

**Install:** you find step-by-step instructions here: <https://arxiv.org/abs/2401.04033> (Section 2)

**Test:** see also the end of section 2

## Questions?

If there are any problems and/or questions feel free to ask:

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