

# mwp on Cygwin

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From 2015-12-30, it is possible to build and run pretty much all of the mwptools suite in [cygwin](#). It is the best performing Windows option.

- Runs from a desktop short cut
- Audio works
- Easy device names translation

## Installation

- Install the required packages. The file `cygwin-example-packages.txt.gz` is taken from a cygwin installation that is capable of building and running mwp. Note that while this seems like a large list, many of the items are automatically installed as dependencies of other items. See also [Automation Hints](#) below.
- At run time, you need to have started the a X server (VcXsrv recommended)
- Serial devices must be prefixed /dev/, e.g. `COM7:` => `/dev/ttyS7`

Once the dependencies are installed, mwp is easily built from the cygwin shell:

- Clone the repository
- `make && make install`

## Automation hints

It's quite easy to install the dependencies as follows:

- Install the base cygwin package using the graphical installer from [cygwin](#).
- Install a few (additional) packages `git`, `wget` and `gzip`.
- Open the cygwin terminal
- Fetch and make executable the `apt-cyg` script

```
wget https://rawgit.com/transcode-open/apt-cyg/master/apt-cyg
install apt-cyg /bin
```

- Clone the mwp repository

```
git clone --depth 1 https://github.com/stronnag/mwptools
```

- Install all the dependencies in one hit:

```
apt-cyg install $(zcat mwptools/docs/cygwin-example-packages.txt.gz)
```

- Build mwp

```
cd mwptools
make && make install # no sudo in cygwin
```

## Runtime

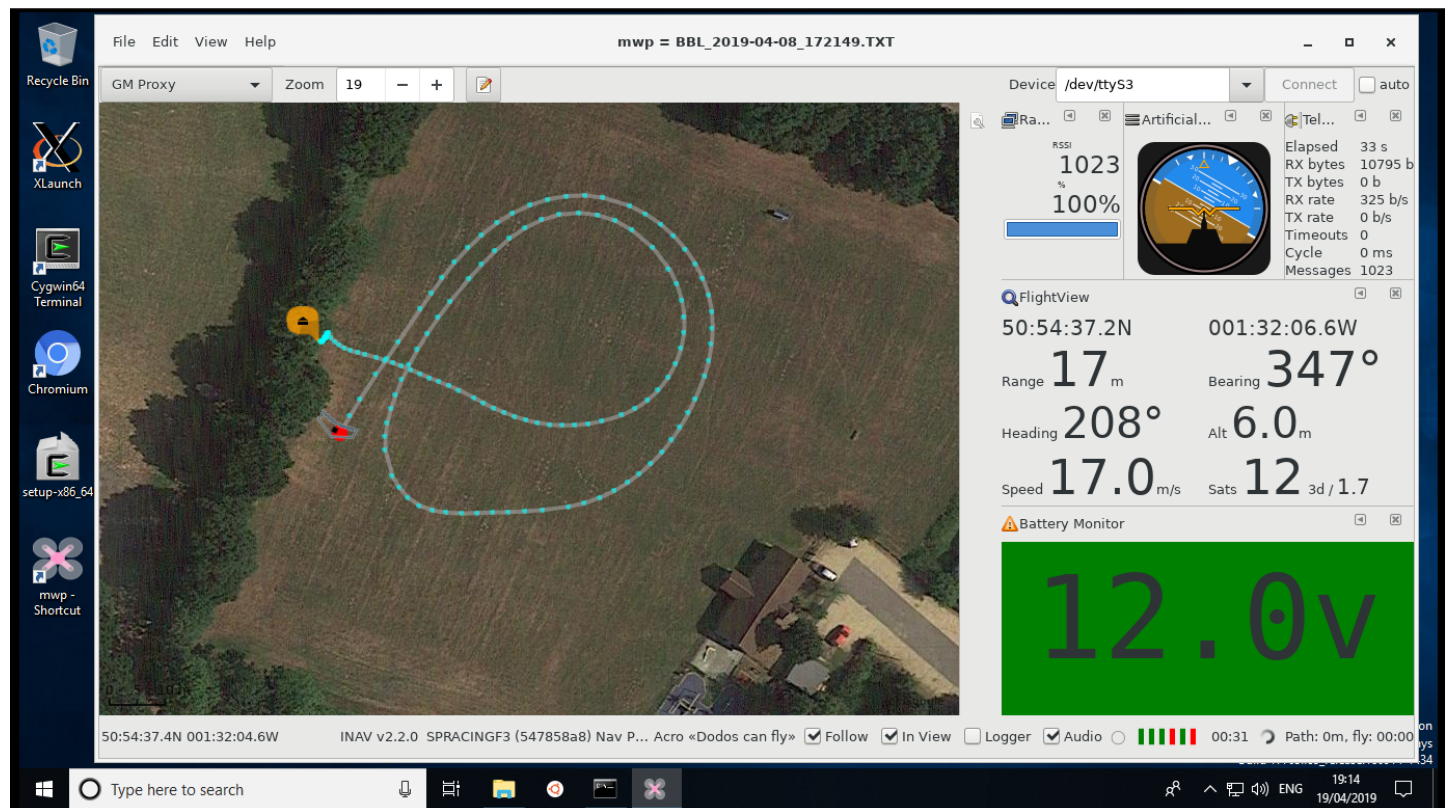
It's convenient to set the following in `.bashrc`

```
export DISPLAY=:0
export NO_AT_BRIDGE=1
export LIBGL_ALWAYS_INDIRECT=Y
```

The X server (VcXsrv) must be running, it may be convenient to start this automatically from the Windows Startup directory.

A Windows batch file is provided that may be used as a desktop shortcut `docs/mwp.bat`

A Windows icon is provided ( `common/mwp_icon.ico` )



No support is offered for running under cygwin.