MRS4Brain Toolbox - Registration guide

The MRS4Brain Toolbox utilizes an additional software, ANTs, for registration and segmentation purposes. ANTs is designed for the UNIX environment. To facilitate this on non-UNIX systems, we employ another tool called Docker Desktop, enabling the containerization of Linux-built software.

Links: ANTs GitHub and Docker Desktop website

MacOS Monterey and later

First time:

- 1. Download and install docker desktop from Docker desktop download
- 2. Start docker desktop, do not need to create an account
- 3. Run in Terminal: docker pull antsx/ants:latest
- 4. Check that the image is successfully installed on docker by running in Terminal: docker run --rm antsx/ants/opt/ants/bin/antsRegistration

If this return something as in Figure 1, ANTs has been successfully installed on your computer using docker desktop.

Other times:

Just launch docker desktop when you need to use the MRSI segmentation tool, everything should be done automatically.

Windows 10 and later

First time:

- 1. Run in Windows Powershell: wsl --update (if wsl is not installed, please run wsl -install, you will then need to restart your computer)
- 2. Download and install docker desktop from **Docker desktop download**
- 3. Start docker desktop, do not need to create an account
- 4. Run in Windows Powershell: docker pull antsx/ants:latest
- 5. Check that the image is successfully installed on docker by running in Windows Powershell: docker run --rm antsx/ants /opt/ants/bin/antsRegistration

If this return something as in Figure 2, ANTs has been successfully installed on your computer using docker desktop.

Other times:

Just launch docker desktop when you need to use the MRSI segmentation tool, everything should be done automatically.

Credits: Guillaume Briand, CIBM – MRS4Brain group, 2023

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### Convergence Nanko

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Figure 1: ANTs successfully installed on docker desktop and ready to be used by the toolbox with MacOS.

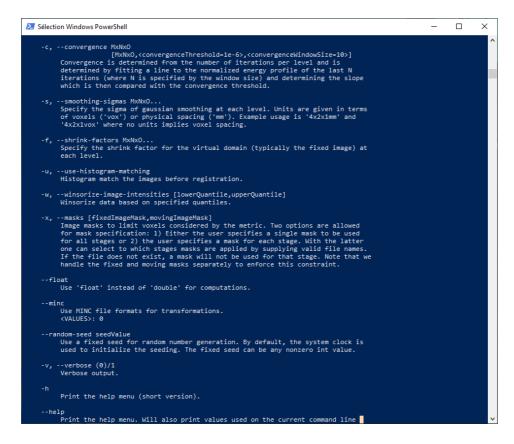


Figure 2: ANTs successfully installed on docker desktop and ready to be used by the toolbox with Windows OS.