

# Conversion to BIDS Format

Converting data to the BIDS (Brain Imaging Data Structure) format involves several steps to properly organize and structure your data. Below is a clear step-by-step guide:

## 1. Prepare the Initial Folder Structure

- Create a main folder called **DATA**.
- Inside **DATA**, create two folders: **bids** and **raw**.
- Place your DICOM images inside a folder named (for example) **dcm** within the **raw** folder.

## 2. Navigate to the Directory

- Go to the directory where your **raw** folder is located.

```
cd raw
```

## 3. Check the Contents of the **raw** Folder

- List the contents of the **raw** folder.  
You should see subfolders named like **01**, **02**, **03**, etc., each corresponding to a different subject.

```
dir  
(or ls on Unix-based systems)
```

## 4. Install DicomSorter

- Install the **dicomsorter** package using pip:

```
pip install dicomsorter
```

## 5. Sort Directories Using DicomSorter

- Use `dicomsorter` to organize your DICOM files.
- Replace `./01/` with the path to your subject's DICOM folder, and `./sub-01/` with the desired output folder.

```
dicomsorter ./01/ ./sub-01/
```

## 6. Install BidsCoin

- Install the `bidscoin` package using pip:

```
pip install bidscoin
```

## 7. Go Back to the DATA Folder

- Return to the main `DATA` folder.

```
cd ..
```

## 8. Map Raw Data to BIDS Structure

- Use `bidsmapper` to map your raw data into the BIDS folder.
- Adjust your configuration files according to your processing needs.

```
bidsmapper raw bids
```

## 9. (Optional) Edit the Mapping

- Open the BIDS editor to review and modify the mapping if necessary.

```
bidseeditor -b ./bids/code/bidsmap bids
```

## 10. Finalize the Conversion to BIDS

- Use **bidscoiner** to complete the conversion of your data to the BIDS format.

```
bidscoiner raw bids
```

### Important Notes:

- Replace all folder names and paths with the ones you are using.
- Pay attention to any error messages or additional requirements mentioned in the specific tutorials you follow.