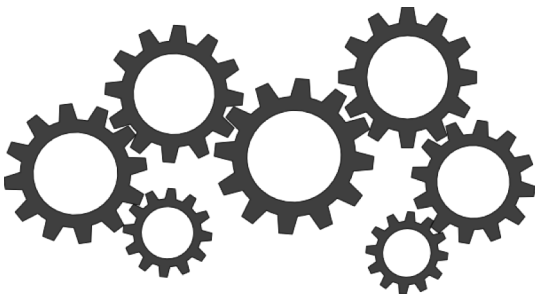


## What is BIDS?

- Brain Imaging Data Structure [BIDS] is a specification for how to **organize and describe** human neuroimaging datasets.
- We provide an easy to follow **guide** on how to convert your dataset to BIDS, over 20 **example datasets** and a **validation tool**.
- BIDS makes it easy to work with a growing set of neuroimaging tools (Nipype, Automatic Analysis, PyMVPA etc.)



## Principles behind BIDS

1. **Adoption** is crucial.
2. **Don't reinvent the wheel**.
3. **Some metadata** is better than no metadata
4. **Don't rely on external software** [databases] or complicated file formats [RDF].
5. Aim to capture **80% of experimental designs** but give the remaining 20% space to extend the standard.

## Features

- Based on file and folder names.
- Metadata stored in human readable JSON files.
- Supports multiple sessions and runs.
- Supports multiple formats of fieldmaps.

## Example

```
participants.tsv
dataset_description.json
README
CHANGES
sub-control01/
  sub-control01_scans.tsv
  anat/
    sub-control01_T1w.nii.gz
    sub-control01_T1w.json
    sub-control01_T2w.nii.gz
    sub-control01_T2w.json
  func/
    sub-control01_task-nback_bold.nii.gz
    sub-control01_task-nback_bold.json
    sub-control01_task-nback_events.tsv
    sub-control01_task-nback_sbref.nii.gz
    sub-control01_task-nback_sbref.json
  dwi/
    sub-control01_dwi.nii.gz
    sub-control01_dwi.bval
    sub-control01_dwi.bvec
  fmap/
    sub-control01_phasediff.nii.gz
    sub-control01_phasediff.json
    sub-control01_magnitude1.nii.gz
```

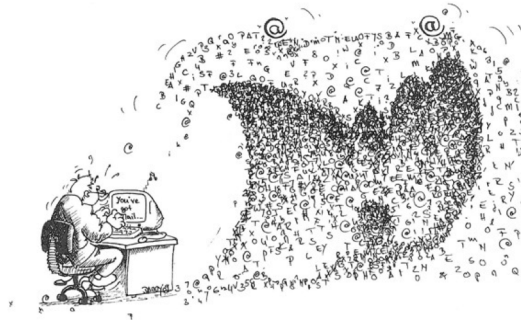
# Brain Imaging Data Structure

An easy way to avoid getting  
lost in your data!

[bids.neuroimaging.io](https://bids.neuroimaging.io)

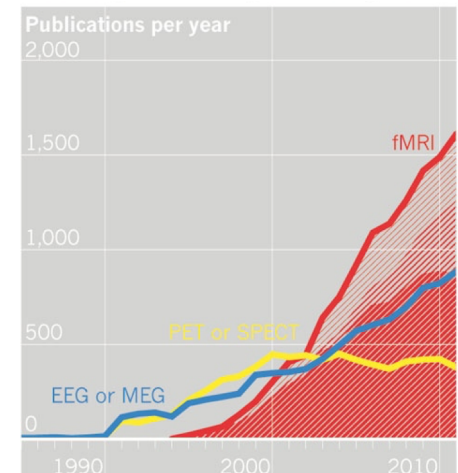
## Who is it for?

- Are you acquiring human neuroimaging data?
- Are you a PI and want to make sure your students and postdocs document their data so other members of your lab can **reuse it later**?
- Are you planning to **share your data** with other researchers?
- Do you want to avoid having to call up your scanner manager to figure out what was the dwell time?
- Is this how you feel when working with data acquired by someone else?



## The problem

- MRI has been used to study the human brain for over 20 years



- Despite similarities in experimental designs and data types each researcher tends to organize and describe their data **in their own way**.
- This practice causes a lot of problems with:
  - sharing data,
  - figuring out acquisition parameters,
  - running automatic analyses.