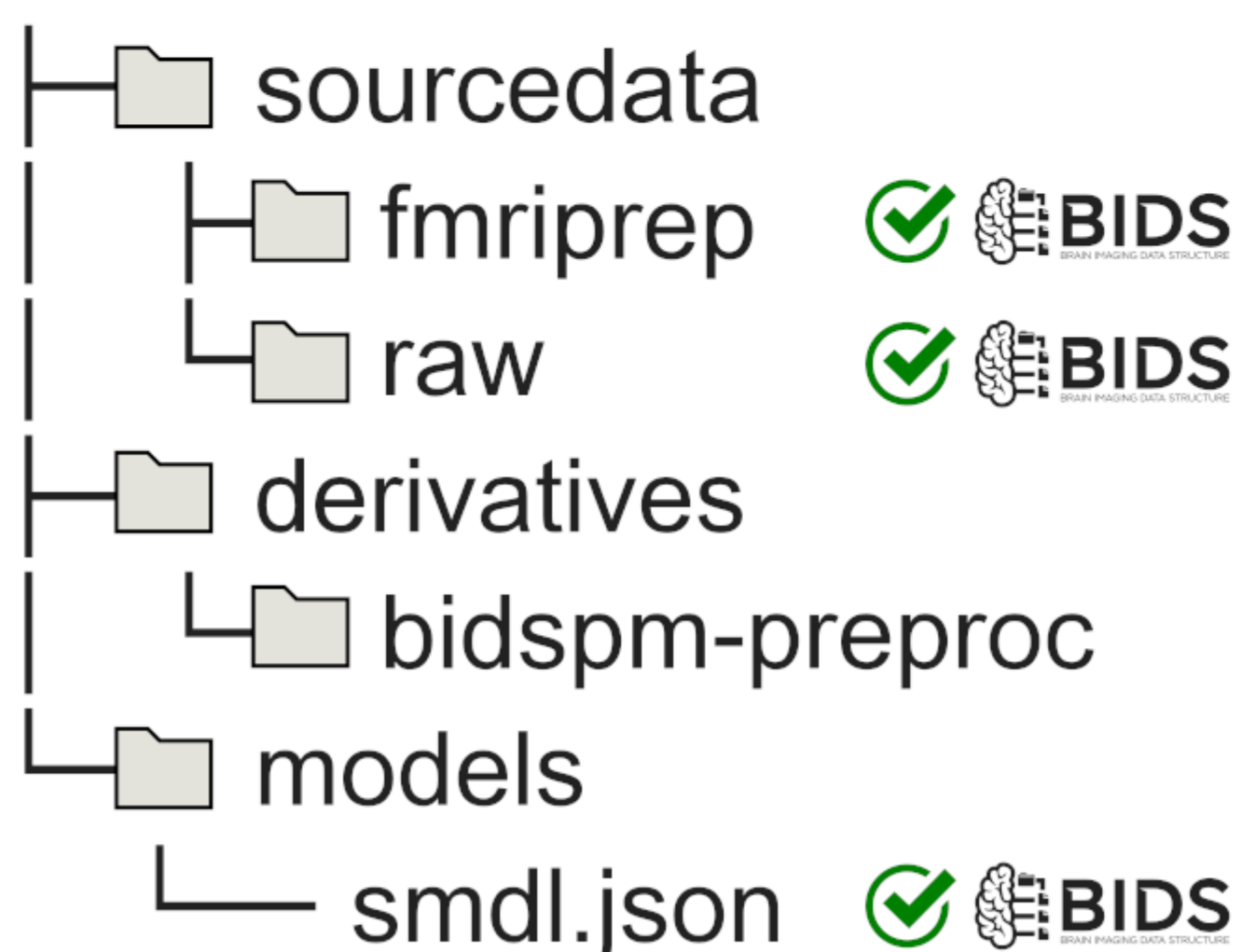


Run **all** your fMRI univariate analysis with **one JSON file** and **50 lines of code**.

bidspm: an SPM-centric **BIDS** app

Standardized inputs



BIDS app API

```
% smooth
bidspm(fmriprip_dir, ...
derivatives, ...
'subject', ...
'action', 'smooth', ...
'task', {'Motion'}, 'space', ...
{'MNI152Nlin6Asym'}, 'fwhm', 6);
```

```
% stat
bidspm(bids_dir, derivatives, 'subject',
'action', 'stats', ...
'preproc_dir', preproc_dir,
'model_file', model_file, ...
'fwhm', 6);
```

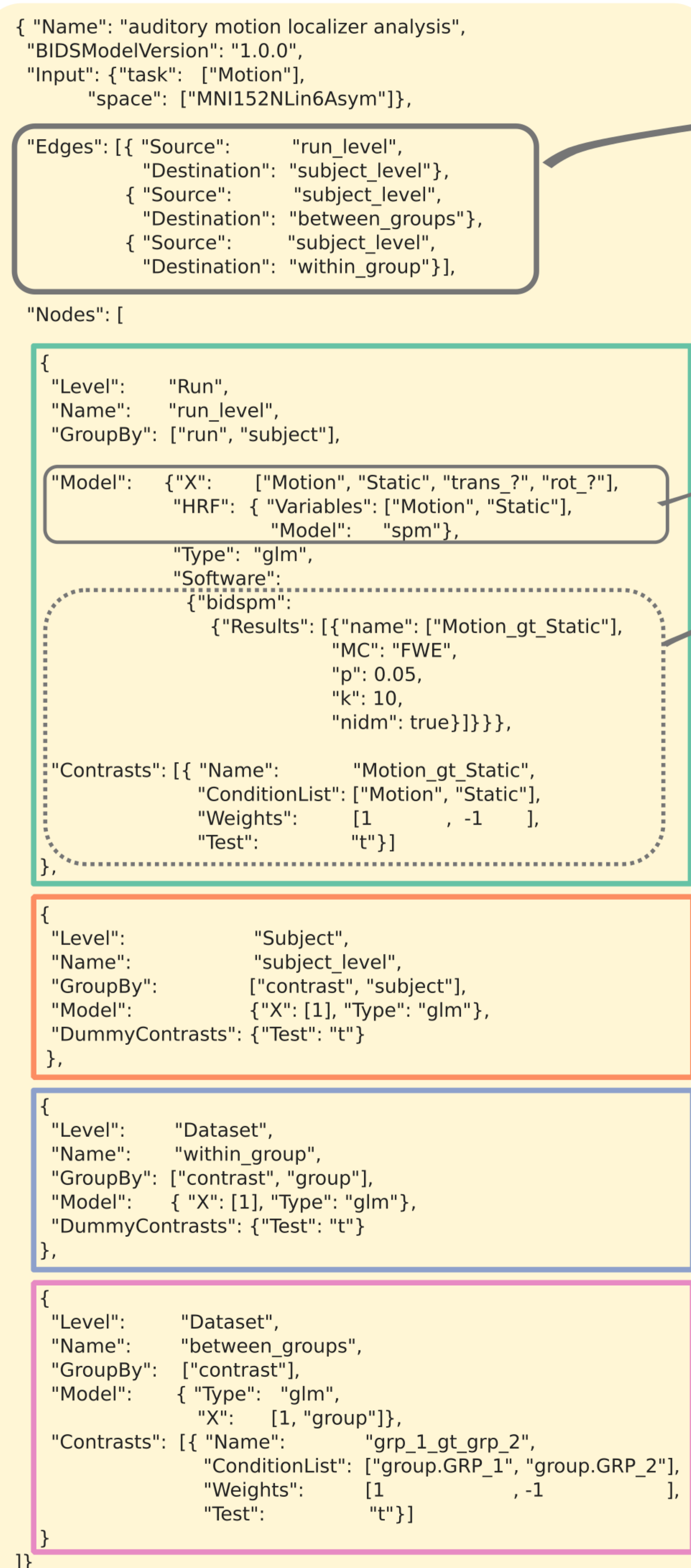
```
bidspm(bids_dir, derivatives, 'dataset',
'action', 'stats', ...
'preproc_dir', preproc_dir,
'model_file', model_file, ...
'fwhm', 6);
```

```
docker run -it --rm \
-v $sourcedata:/sourcedata \
-v $derivatives:/derivatives \
-v $model_dir:/models \
cpplab/bidspm:latest \
/sourcedata/raw \
/derivatives \
subject \
--action stats \
--preproc_dir /derivatives/bidspm-preproc \
--model_file /models/smdl.json \
--fwhm 6
```

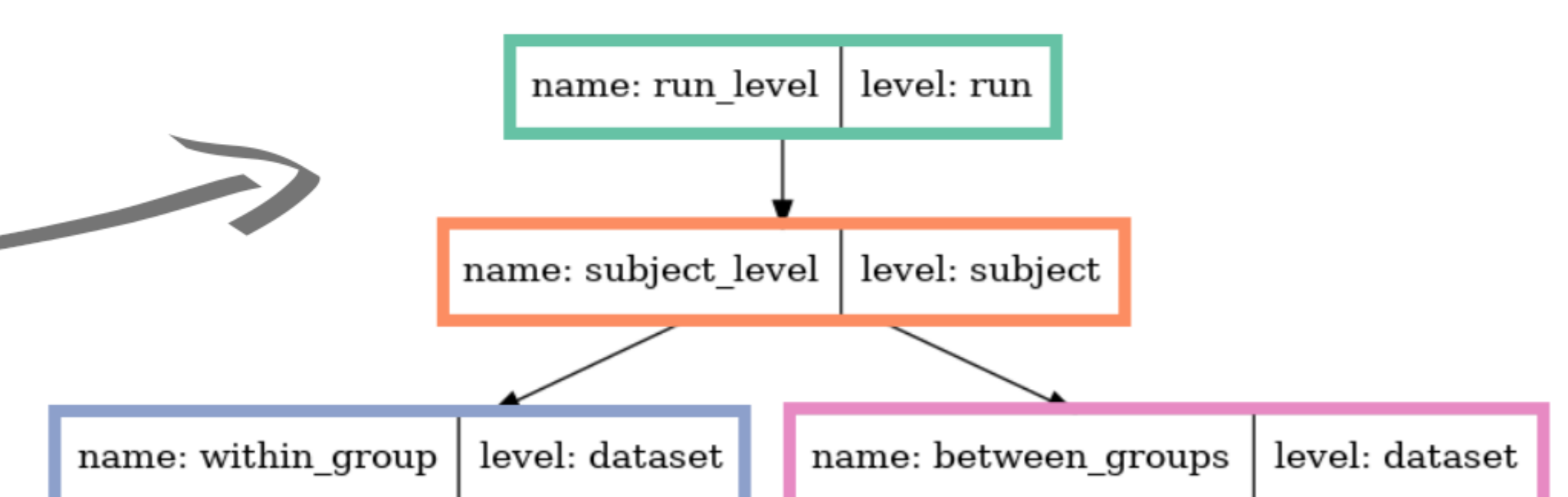
Other features

- ROI-based glm (marsbar)
- Bayesian model comparison (MACS)

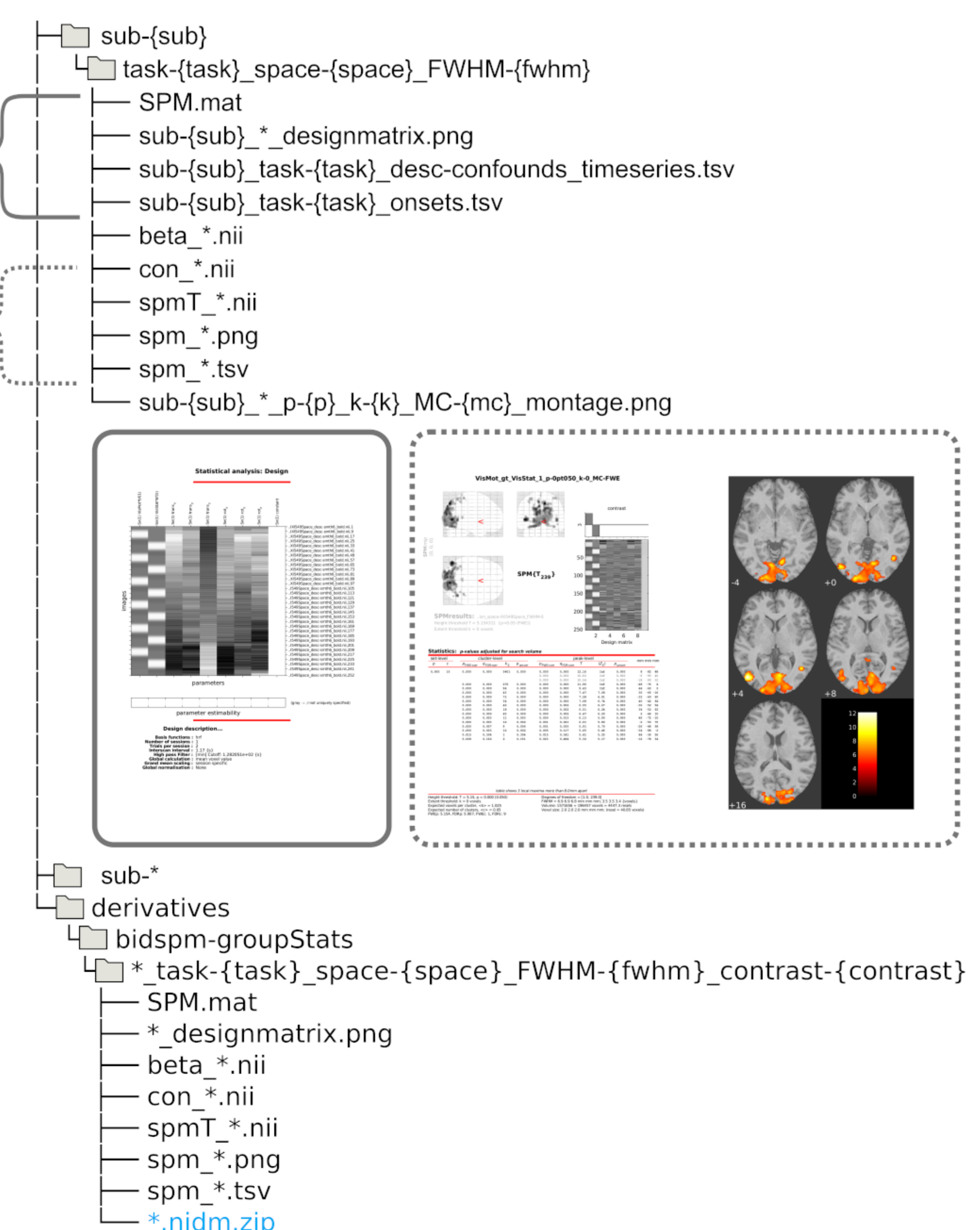
BIDS stats model



Directed acyclic graph



Outputs



Standardized outputs

Share your results in a few clicks.

NEUROVAULT



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