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##  
##  
## Preprocessed Data from xcp_24p_gsr
```

compiled January 4, 2024

DCL events152 positive controls, with matlab convolution and downsampling.

files under /data/nil-external/dcl/Events152\_fMRI\_NeuralMechanisms/voxelwiseAnalyses/

47 people watched movies in four fMRI runs; everyone watched the same movie in each run (four different movies total; same order for everyone). Images were preprocessed with fmriprep (volumes only), then np2 detrended and normalized, and parcel-averaged using the Schaefer2018 400x7 parcellation (`analysisPrep.R`), then XCP engine (24p, w/o gsr). The runs had the same number of volumes for everyone but the movie onsets varied a bit (7.9 to 11.4 seconds); see `e152onsets.txt` and `getOnsets.R`.

Tan Nguyen created the files with PE and Uncertainty statistics experienced by SEM model for each frame of each movie. These stats are every 0.333 seconds, much faster than the BOLD or the TR (1.483 sec). These stats were convolved and downsampled by running `convolve_seg_trigger.m`

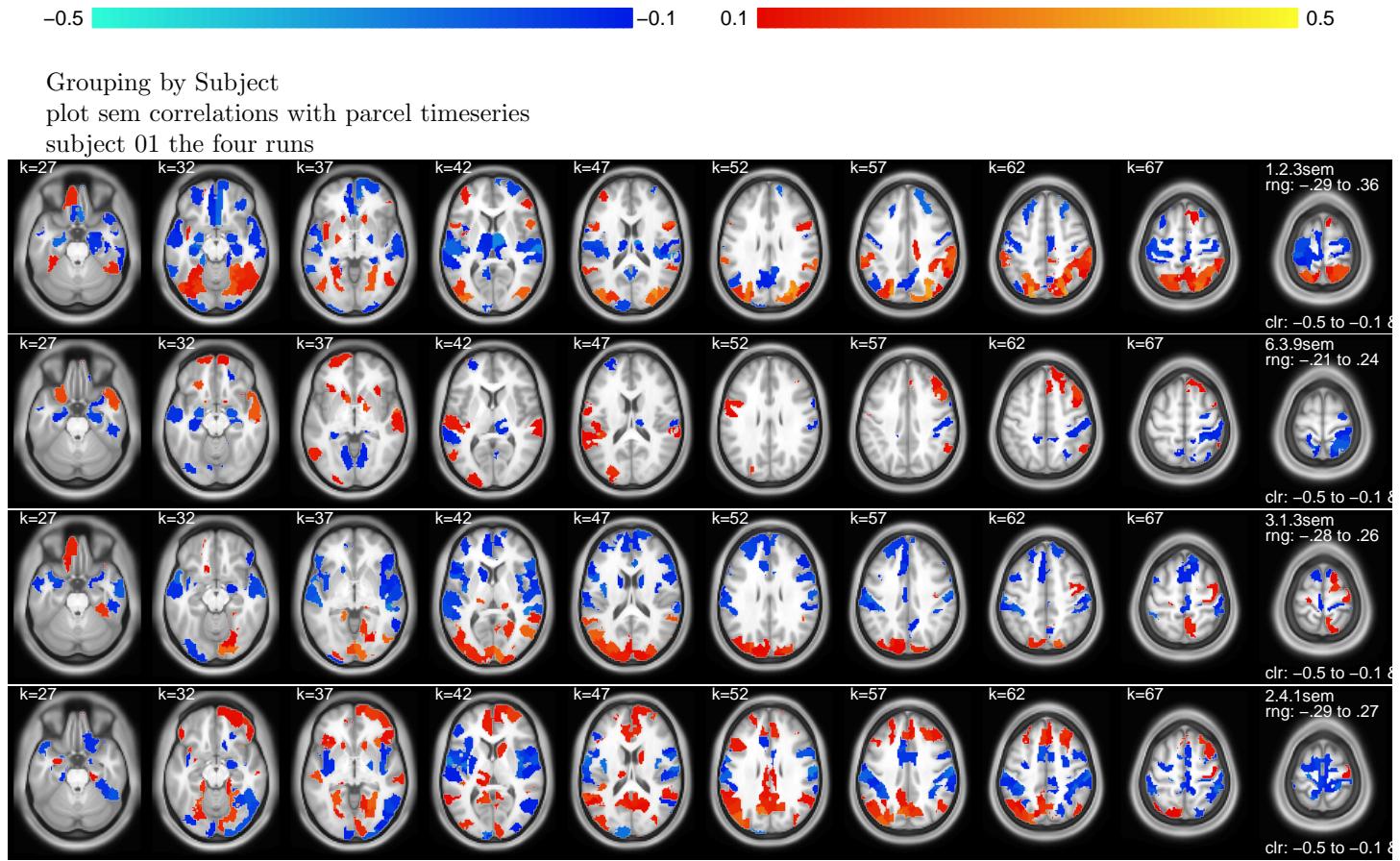
Dec 31 2023, Tan Nguyen created the files with SEM and human fine and coarse boundary probabilities for each frame of each movie. These stats are also every 0.333 seconds, much faster than the BOLD or the TR (1.483 sec). These stats were convolved and downsampled by running `convolve_seg_trigger.m`

Aligning the movie and BOLD timeseries properly before correlating has been a challenge, but seems to be sorted now. The first section shows the median correlation for each movie statistic and run at offset 0.

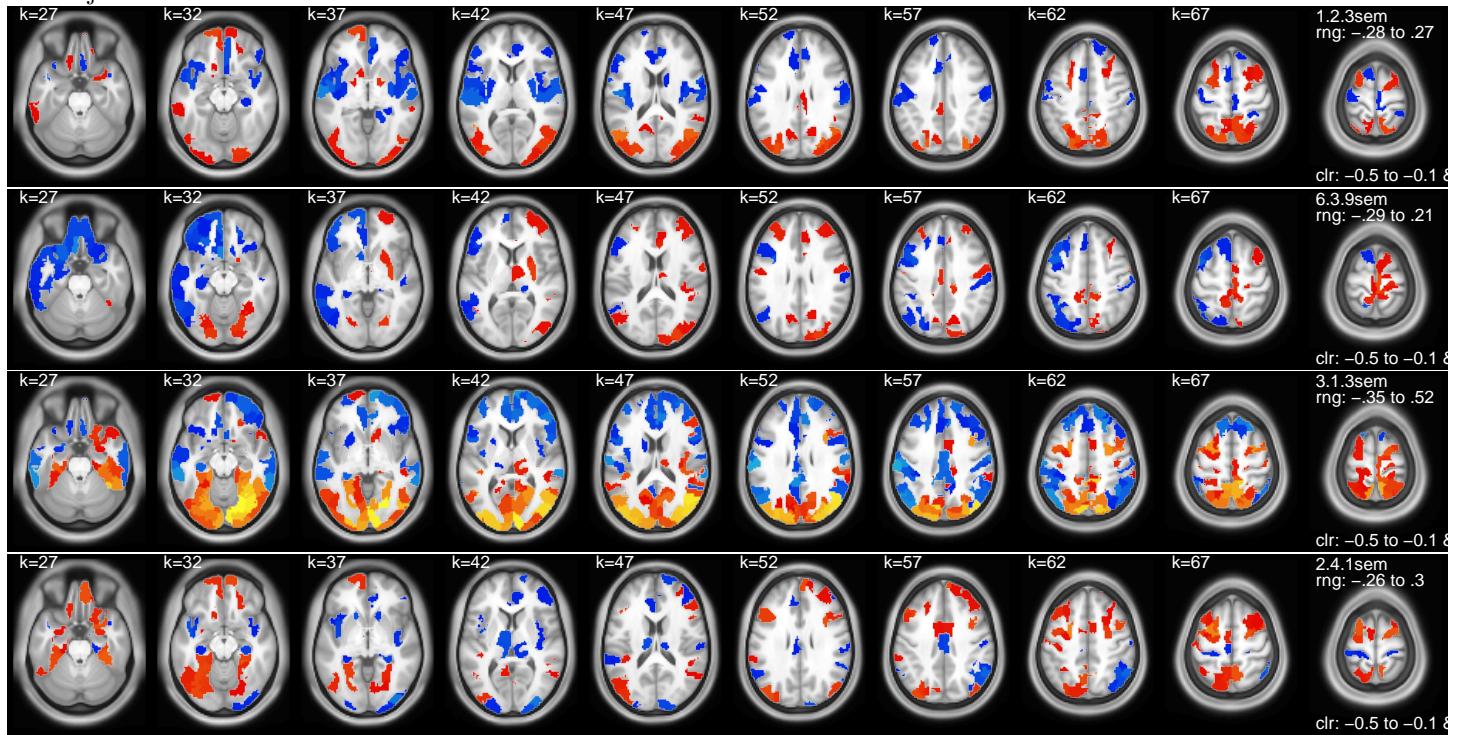
Correlation



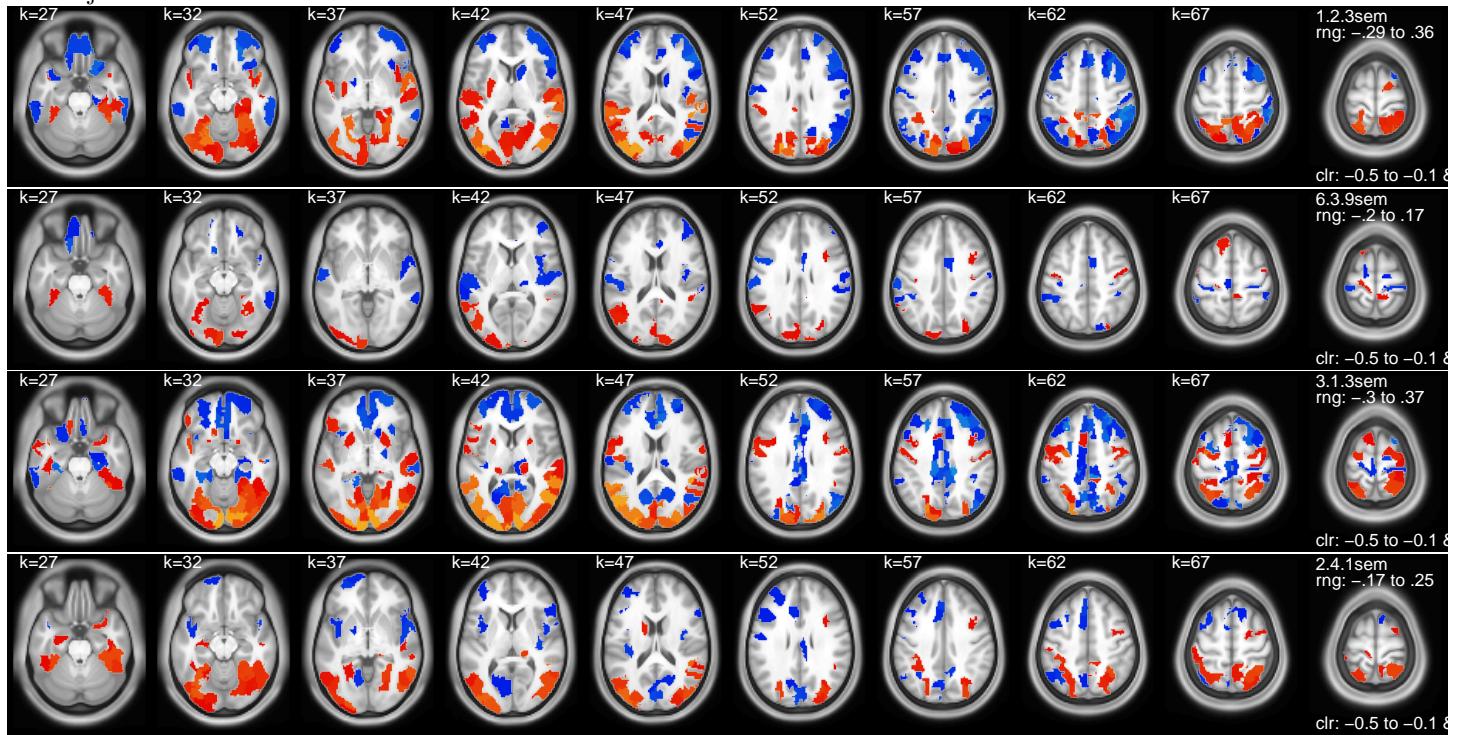
## Correlation



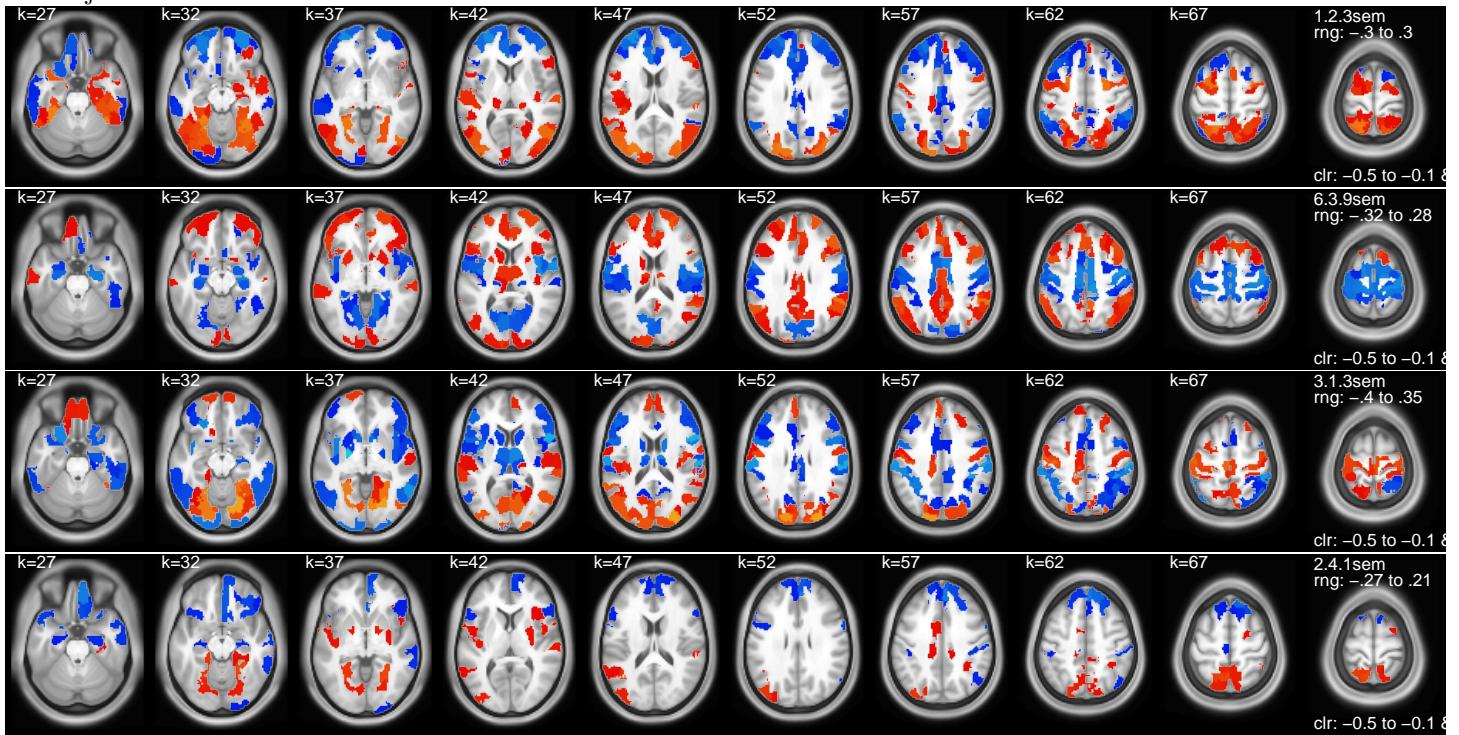
subject 02 the four runs



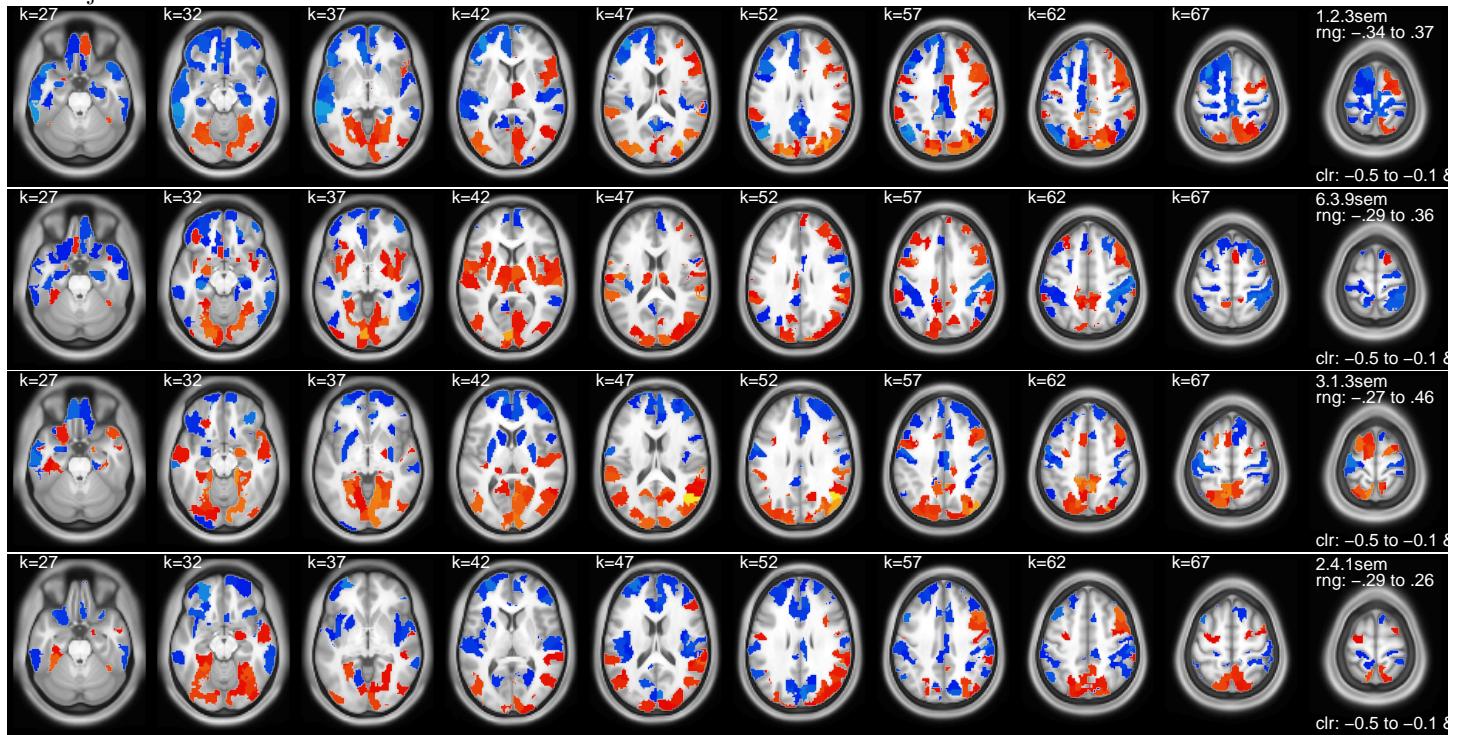
subject 03 the four runs



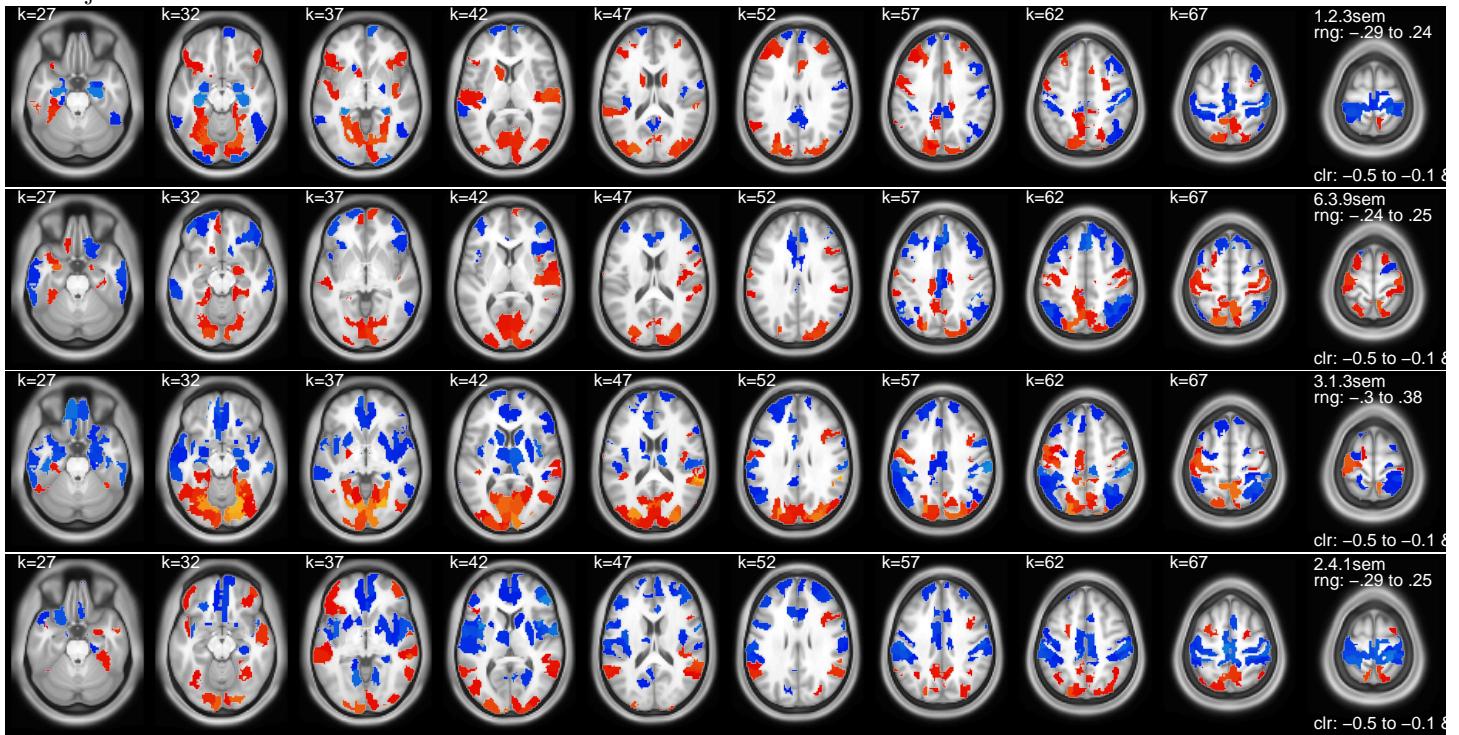
subject 04 the four runs



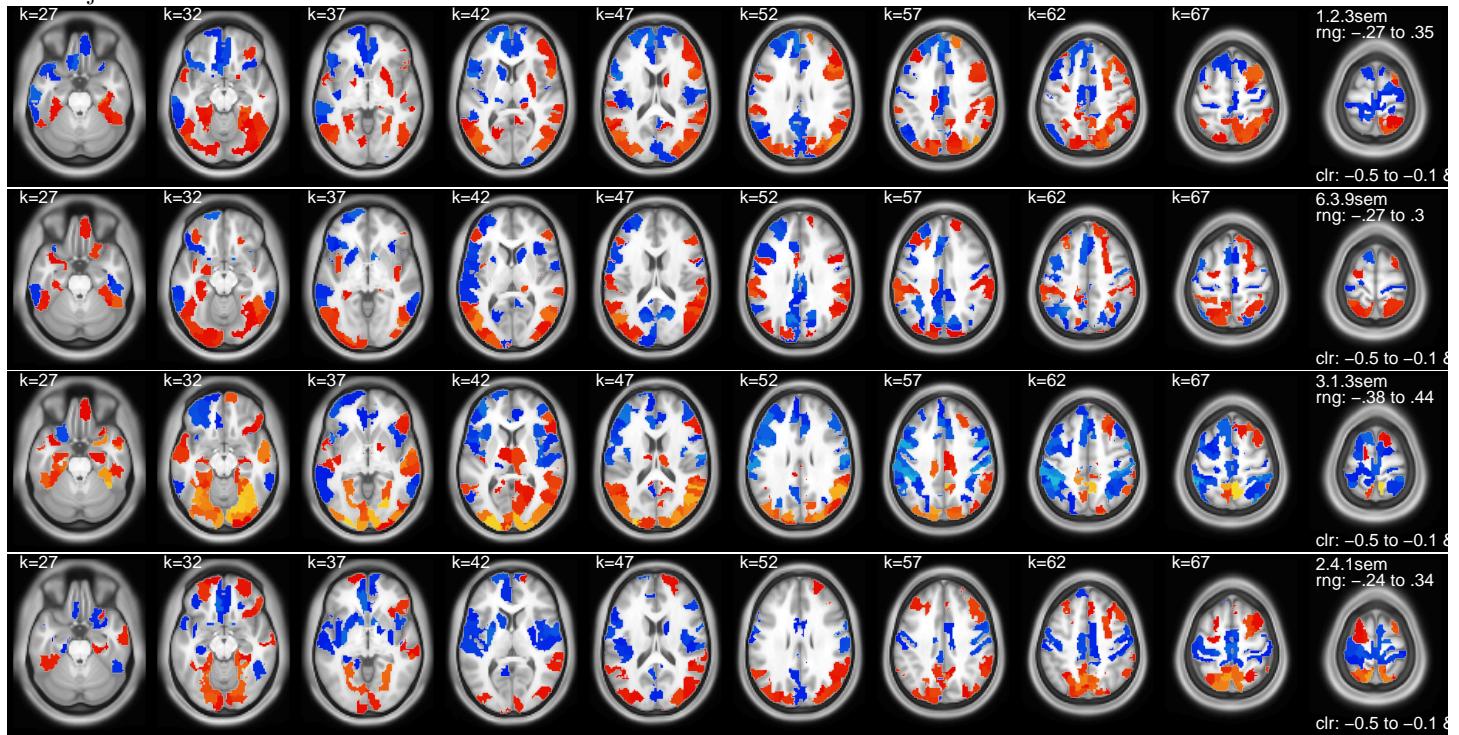
subject 05 the four runs



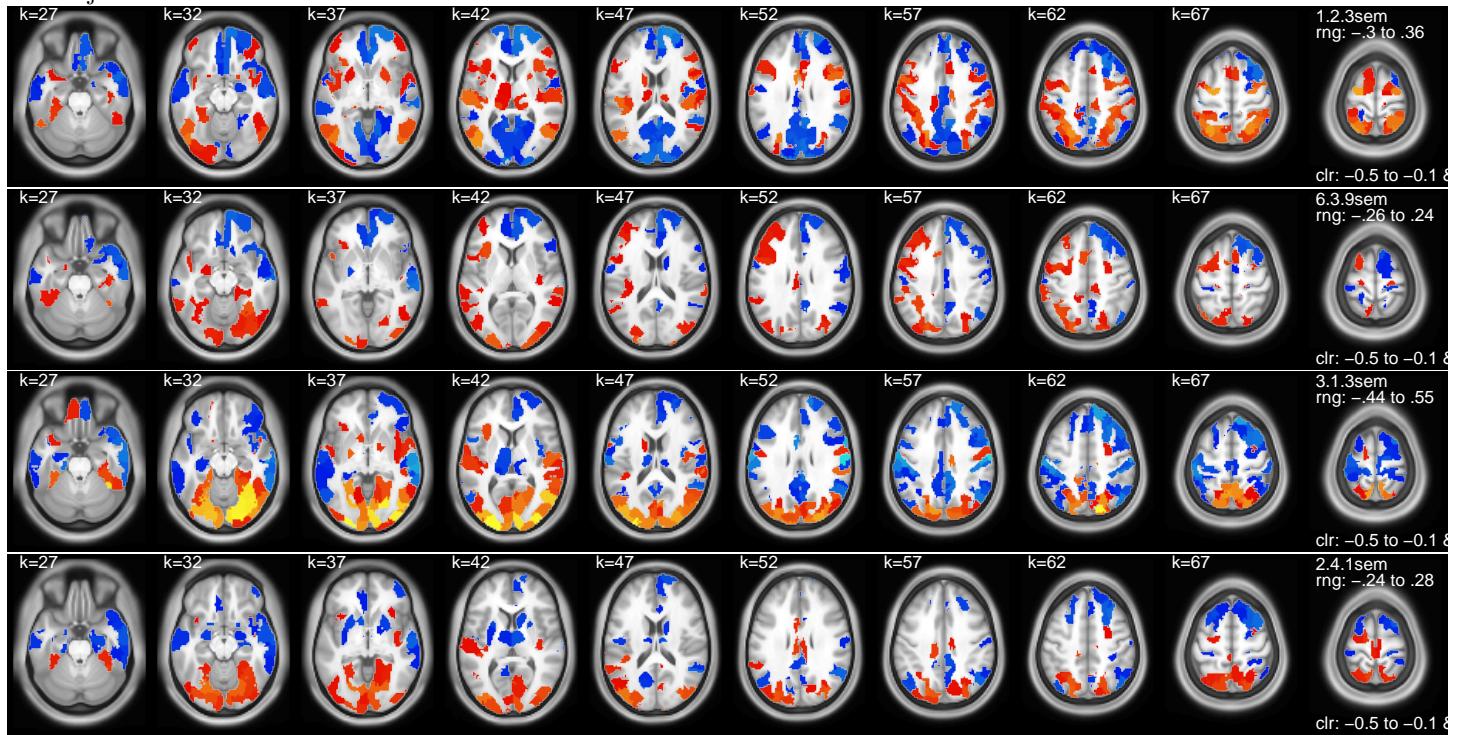
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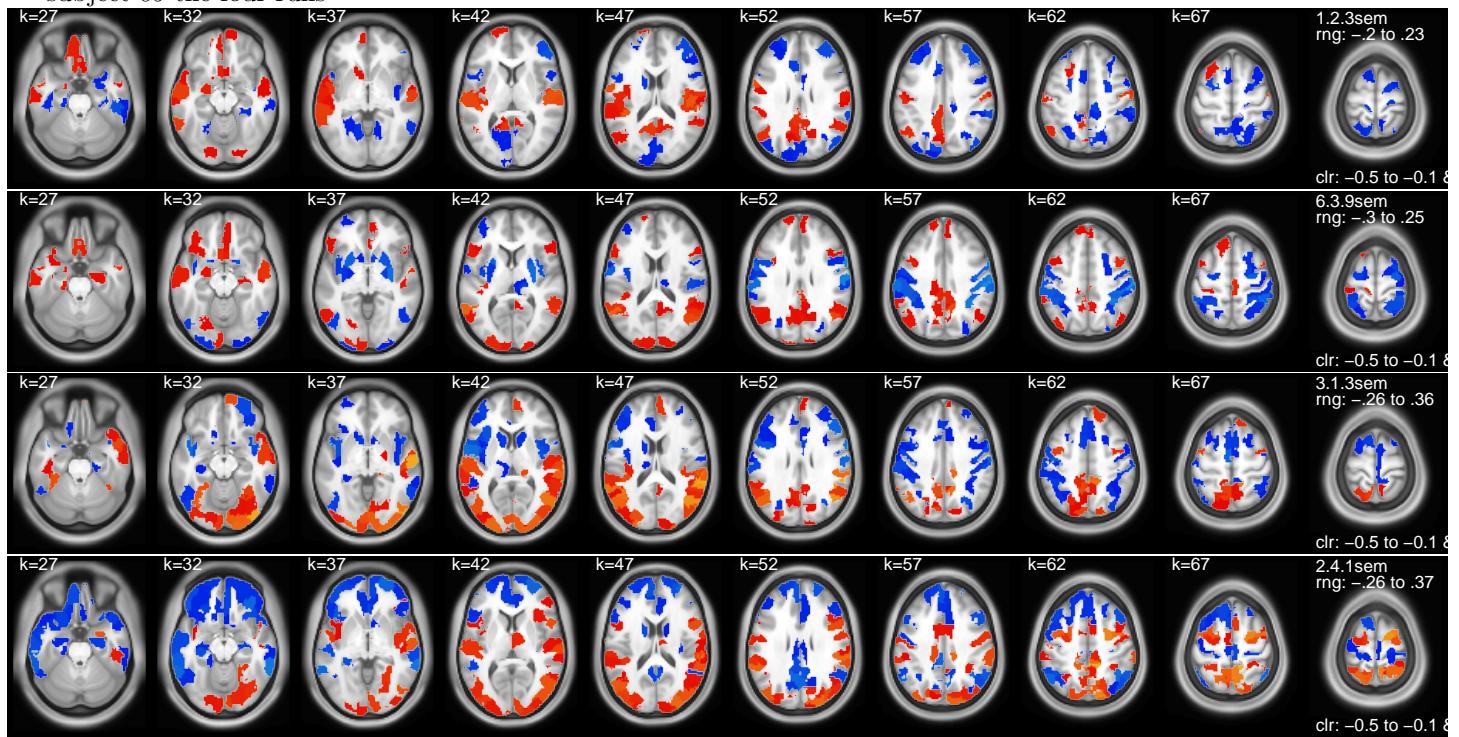
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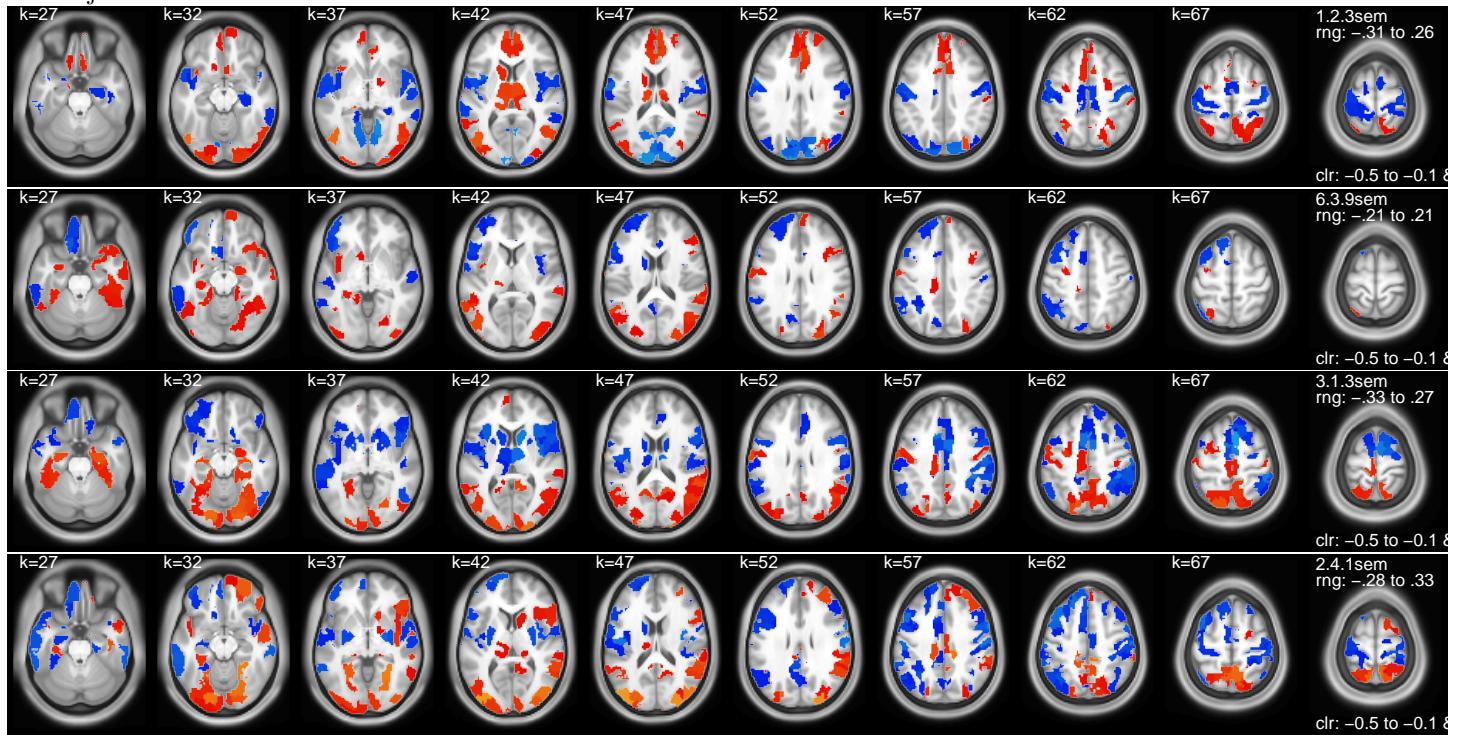
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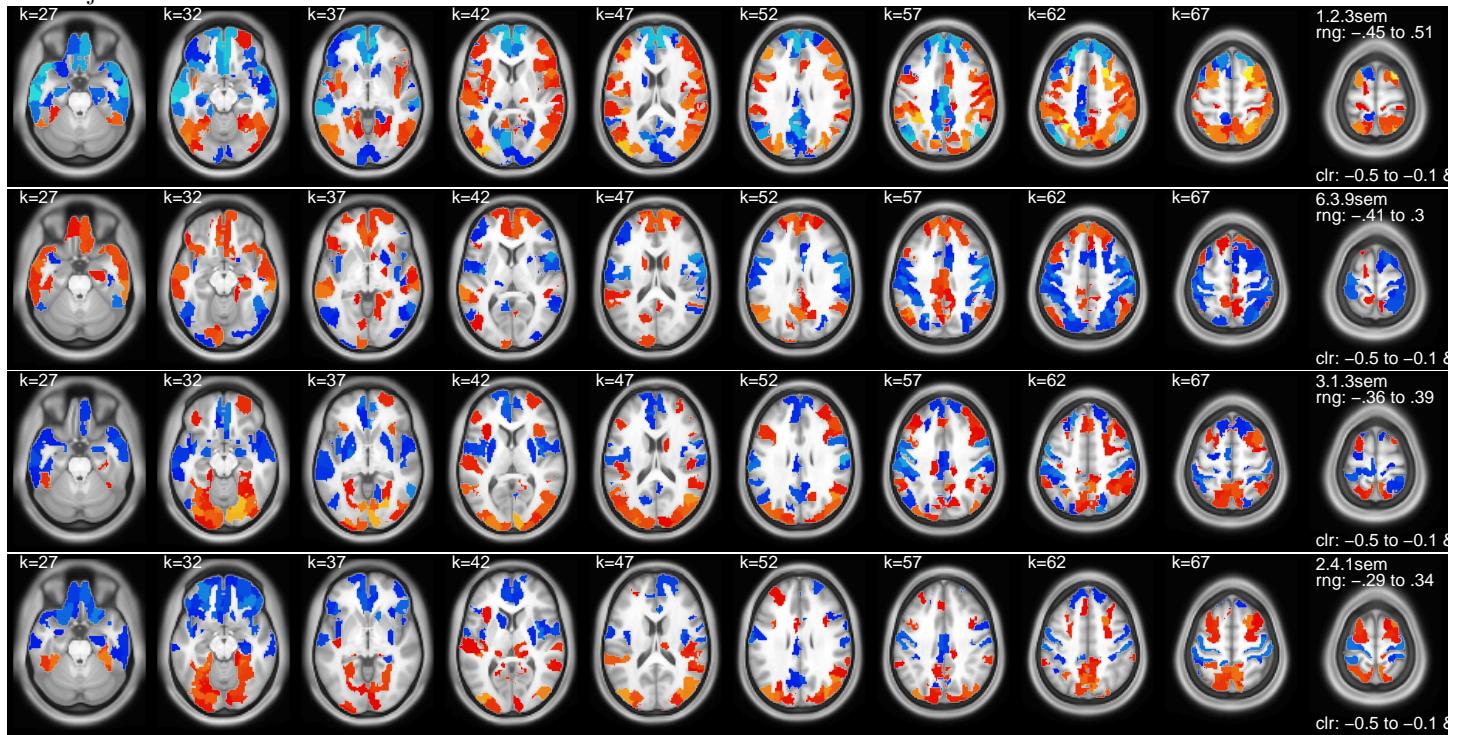
subject 09 the four runs



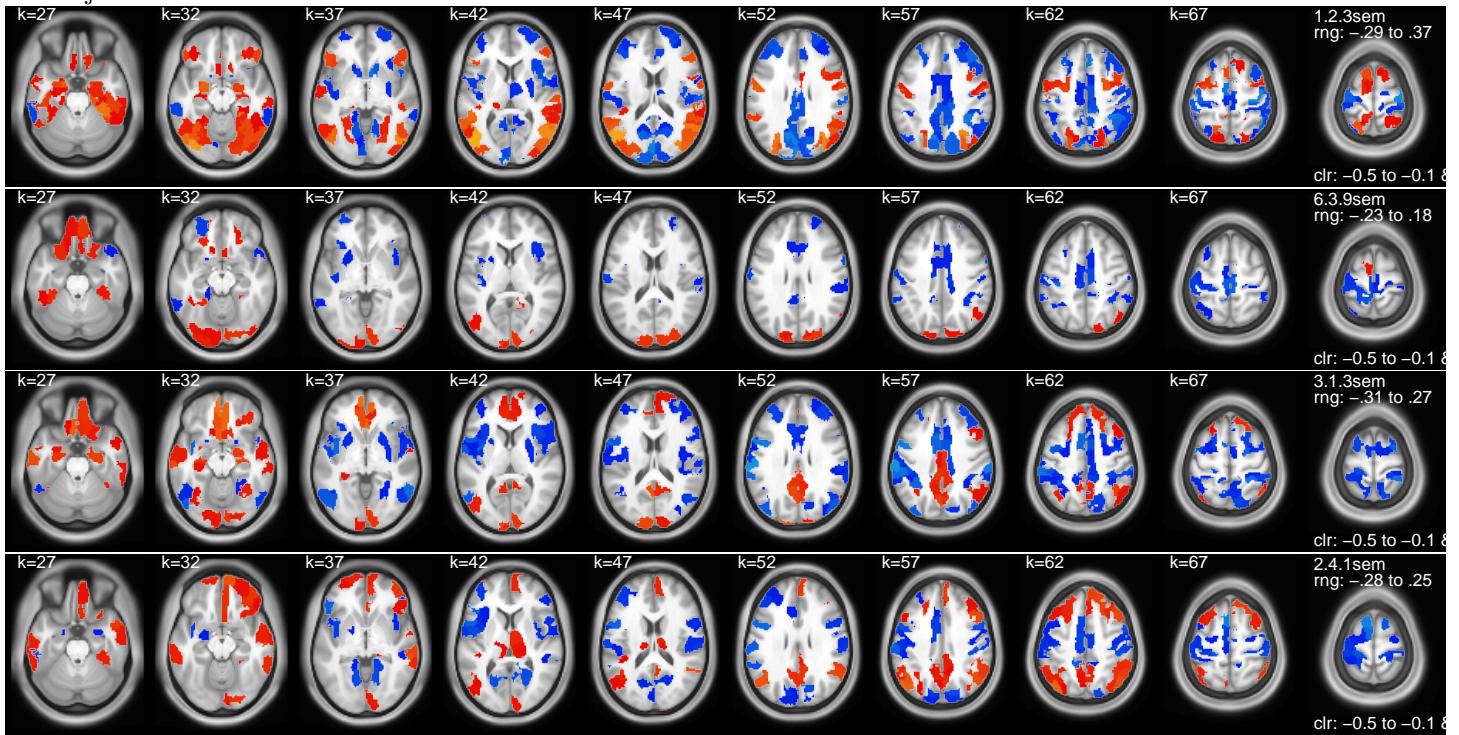
subject 12 the four runs



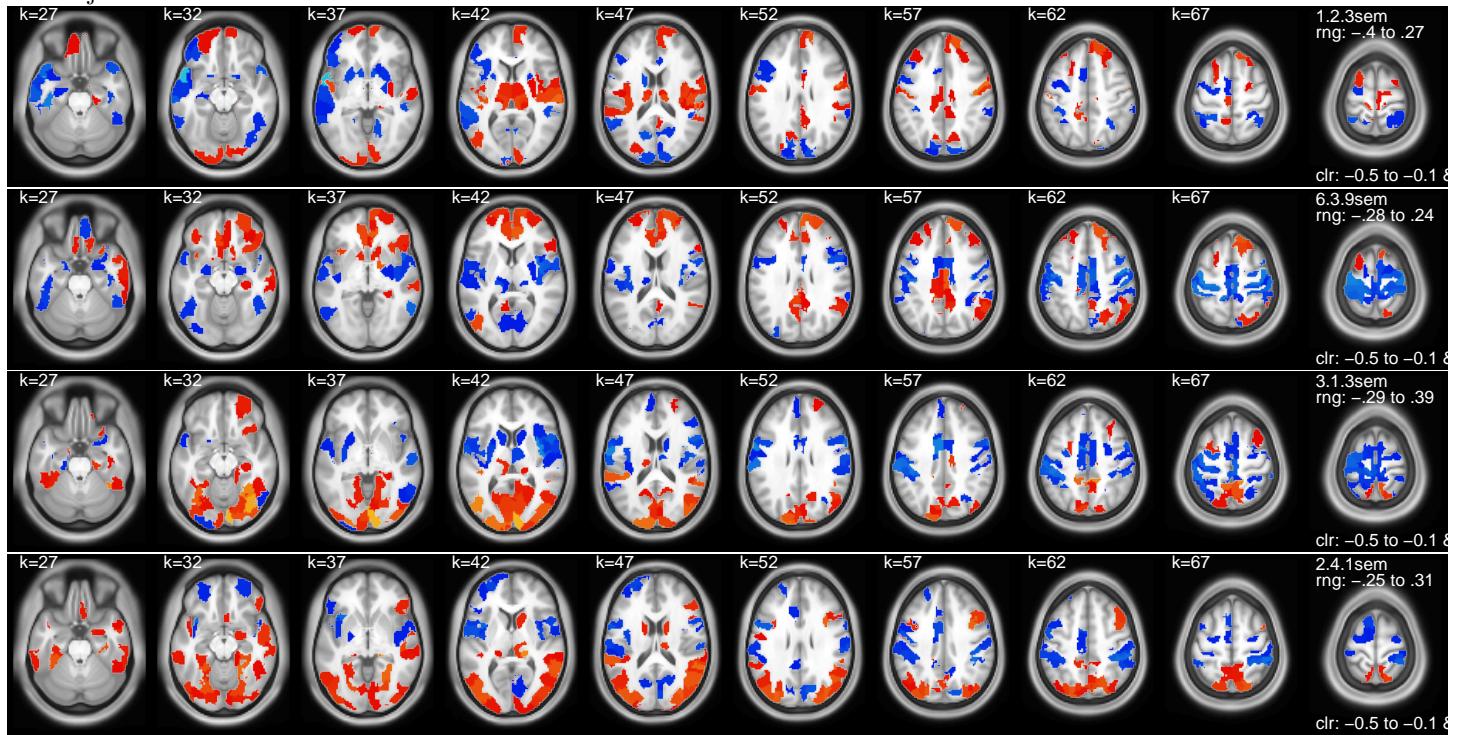
subject 13 the four runs



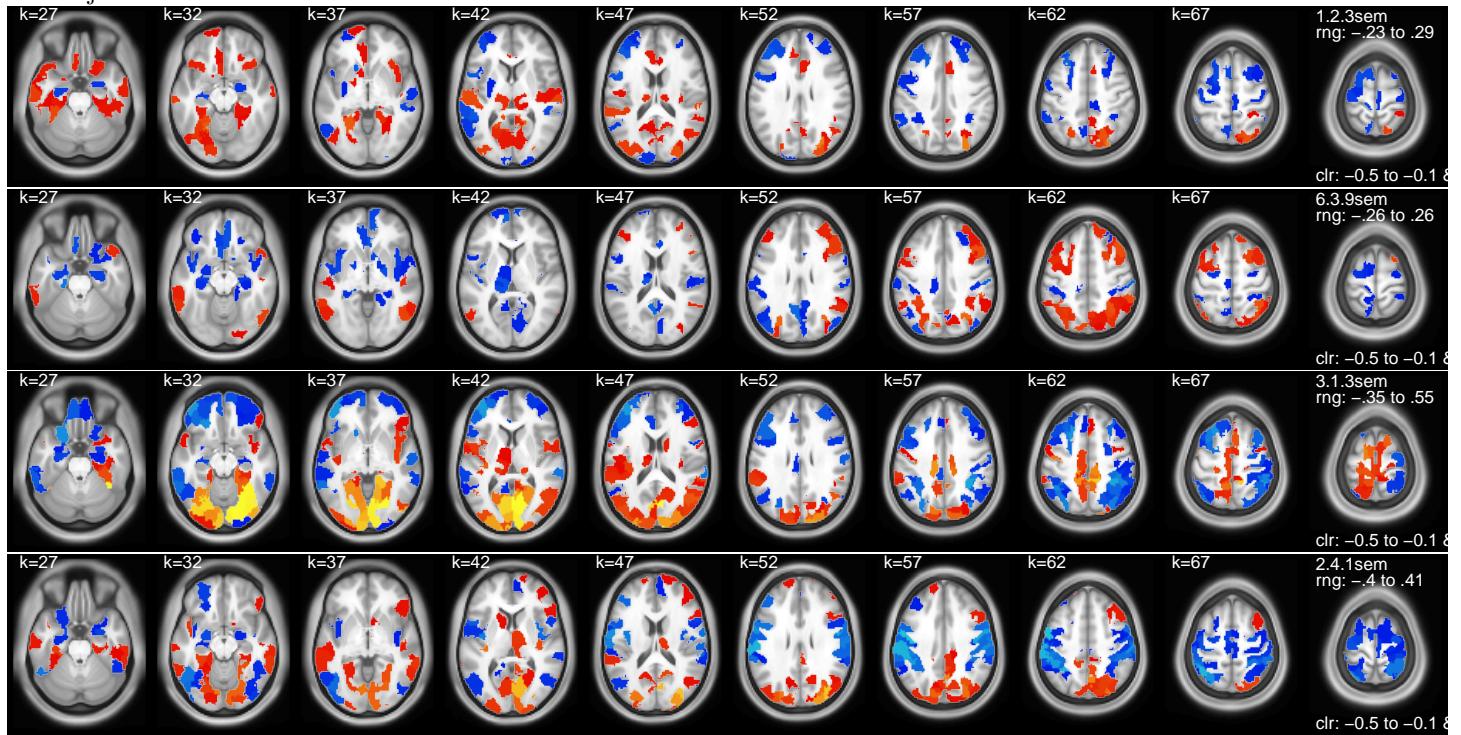
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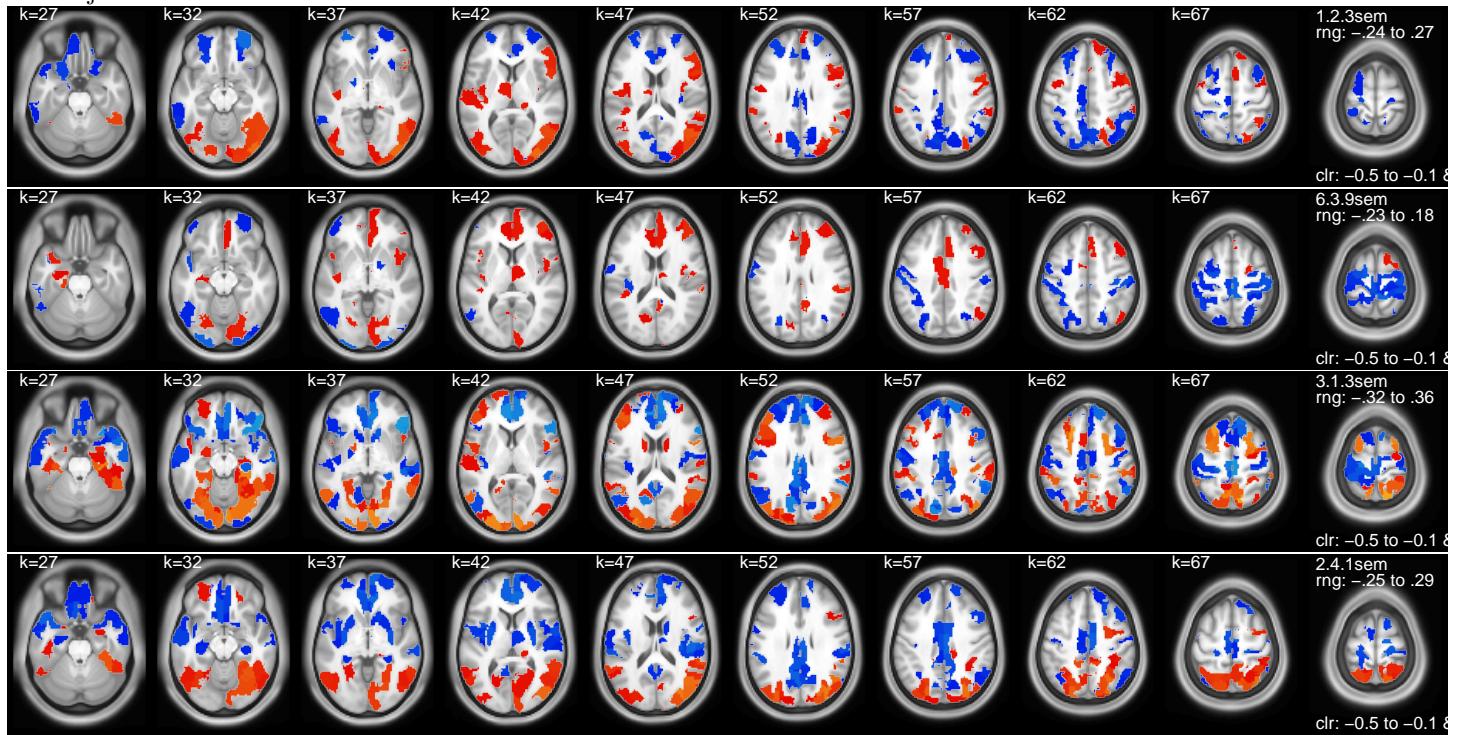
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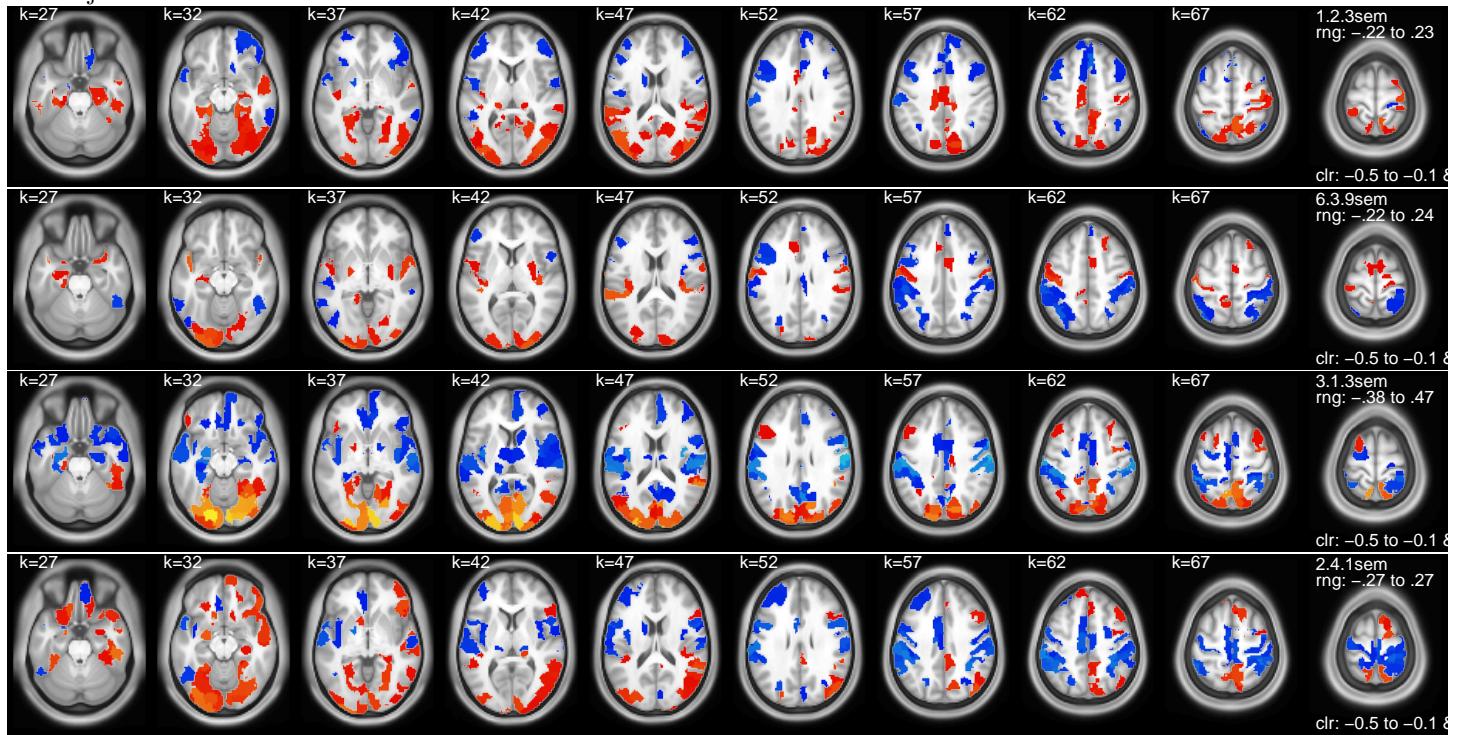
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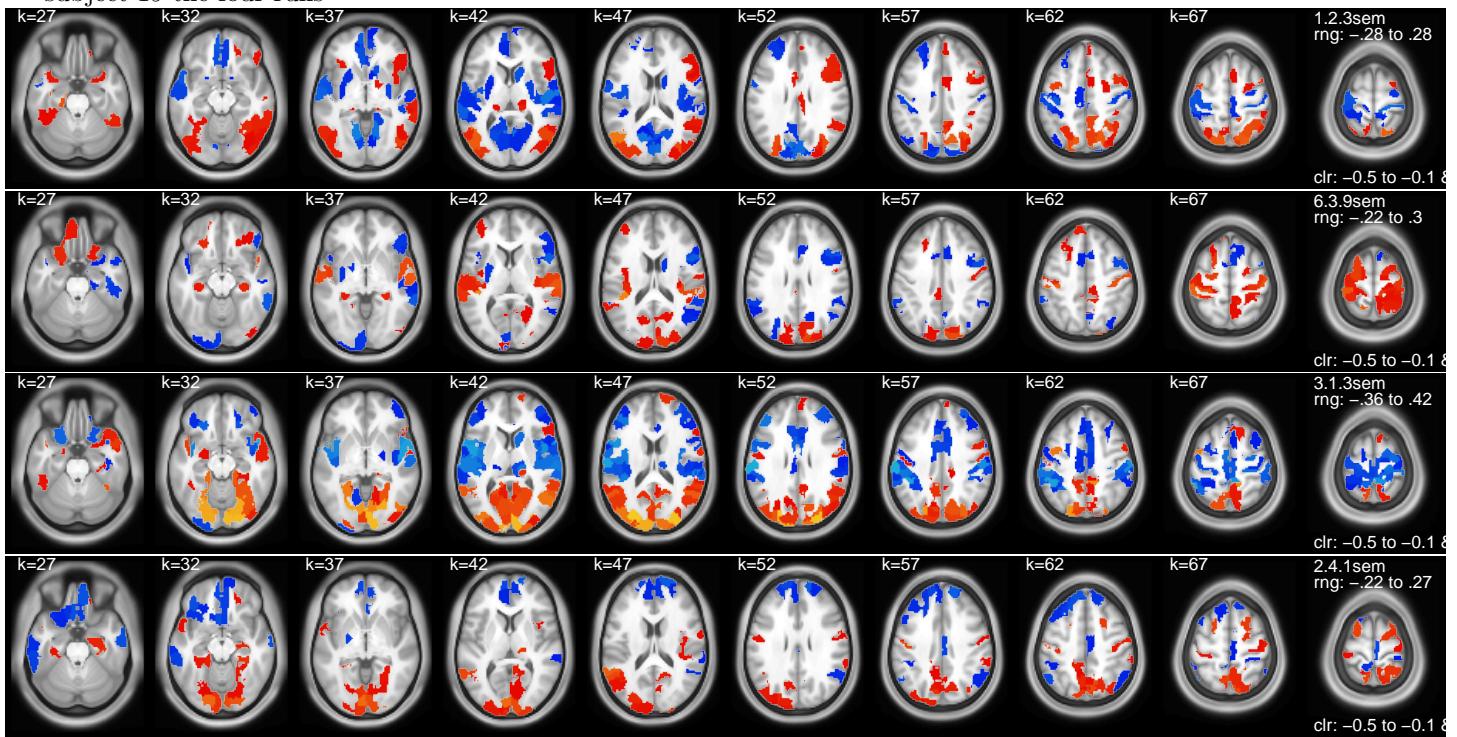
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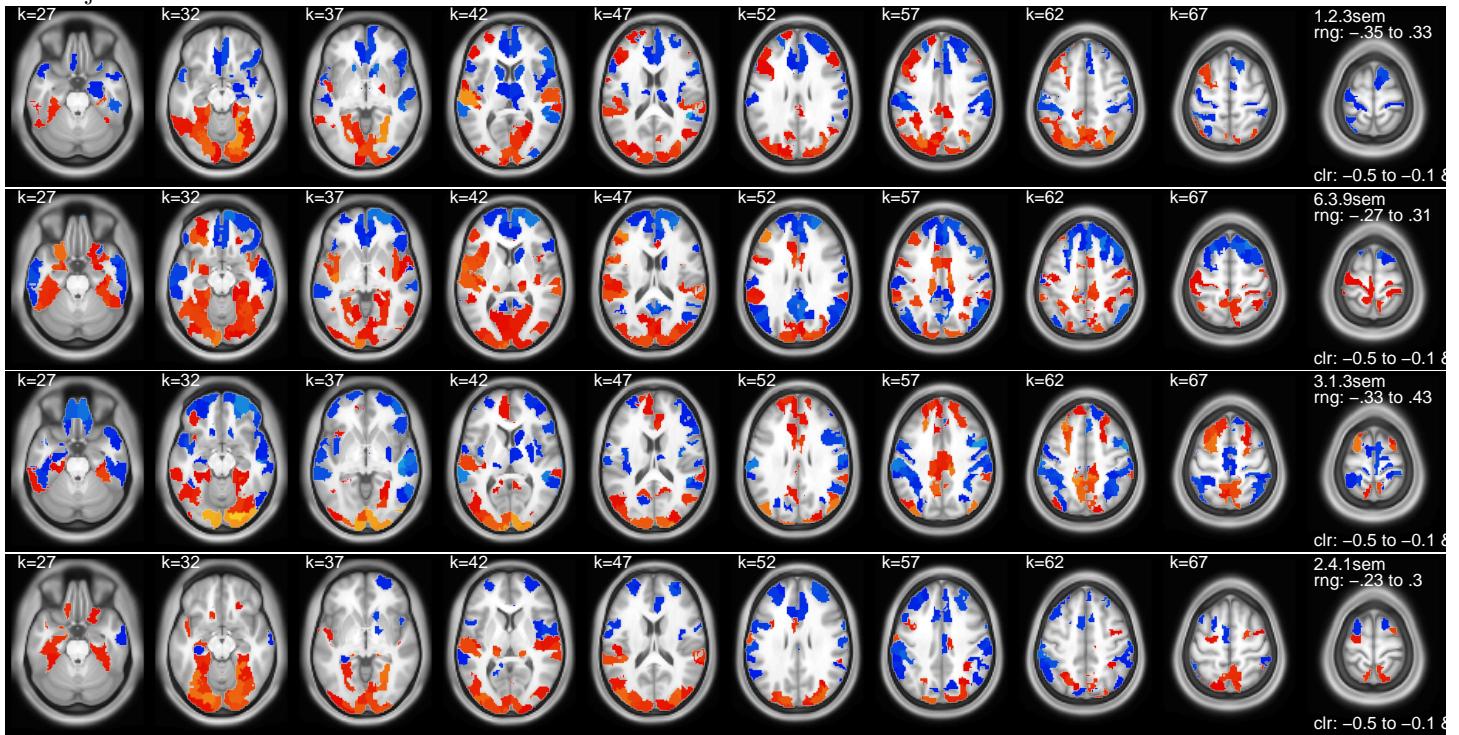
subject 18 the four runs



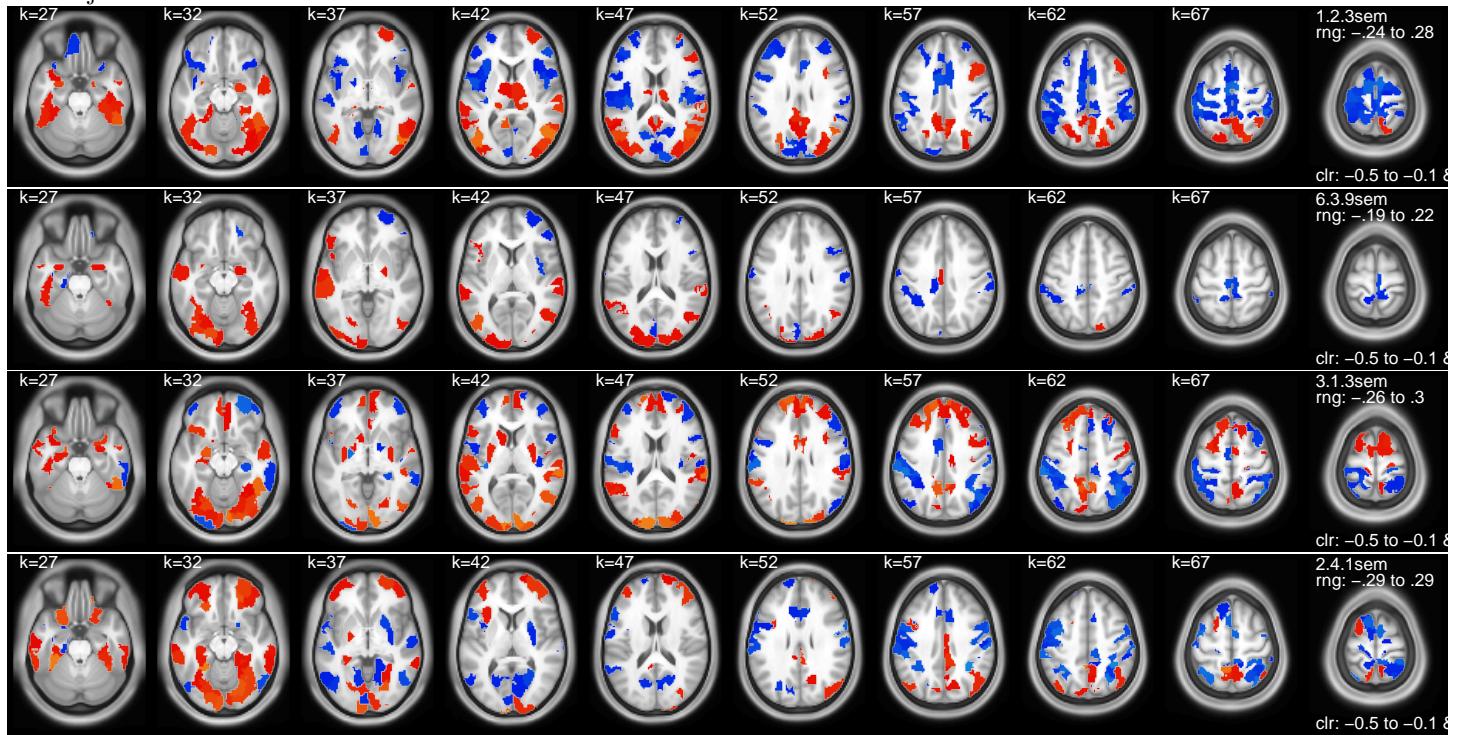
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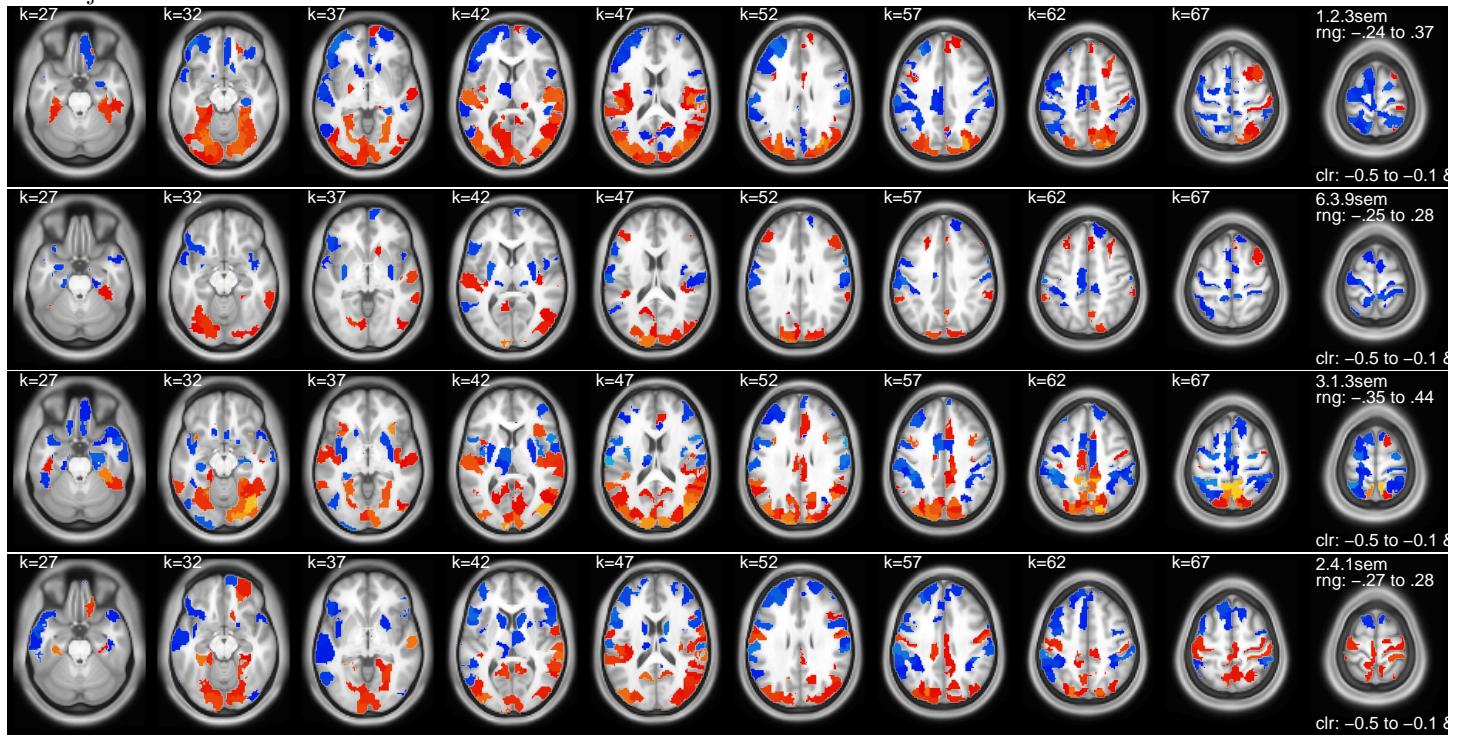
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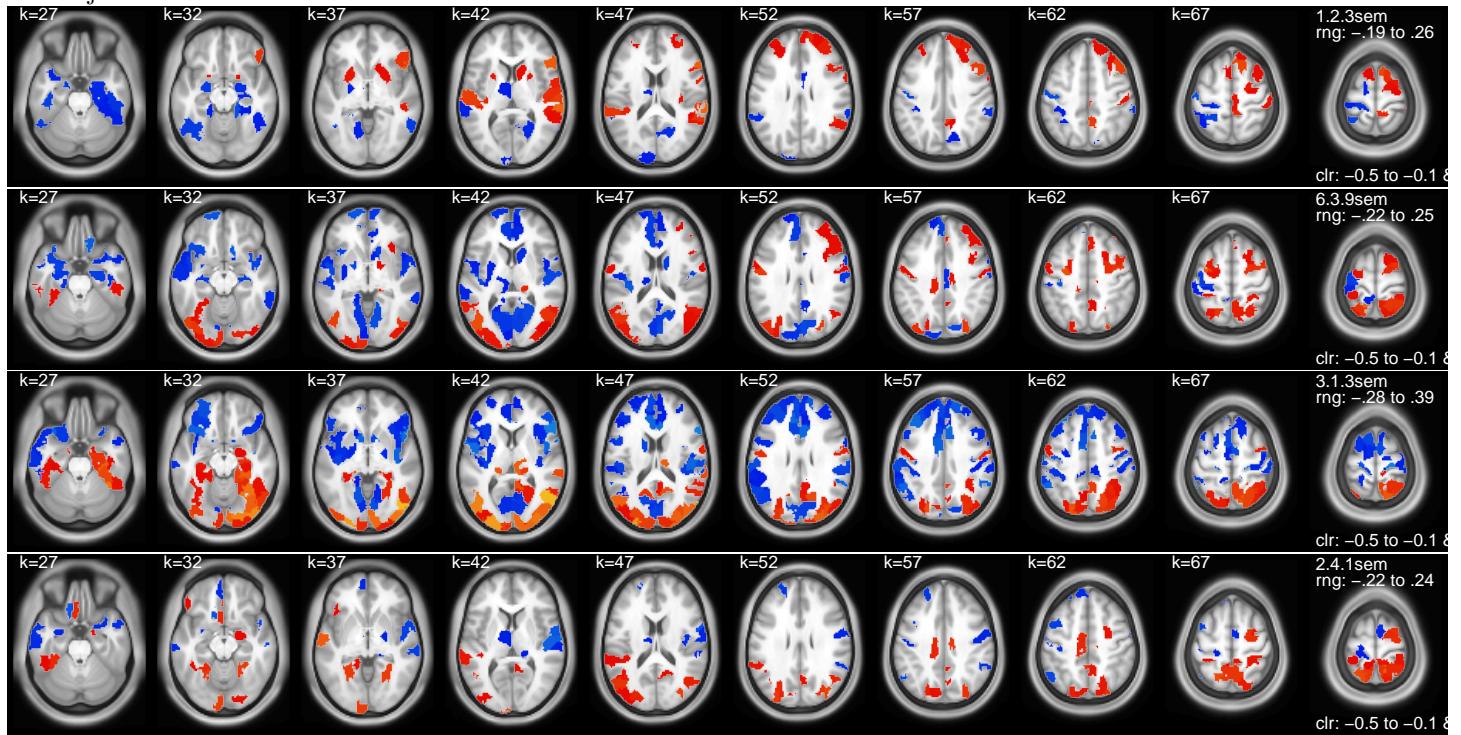
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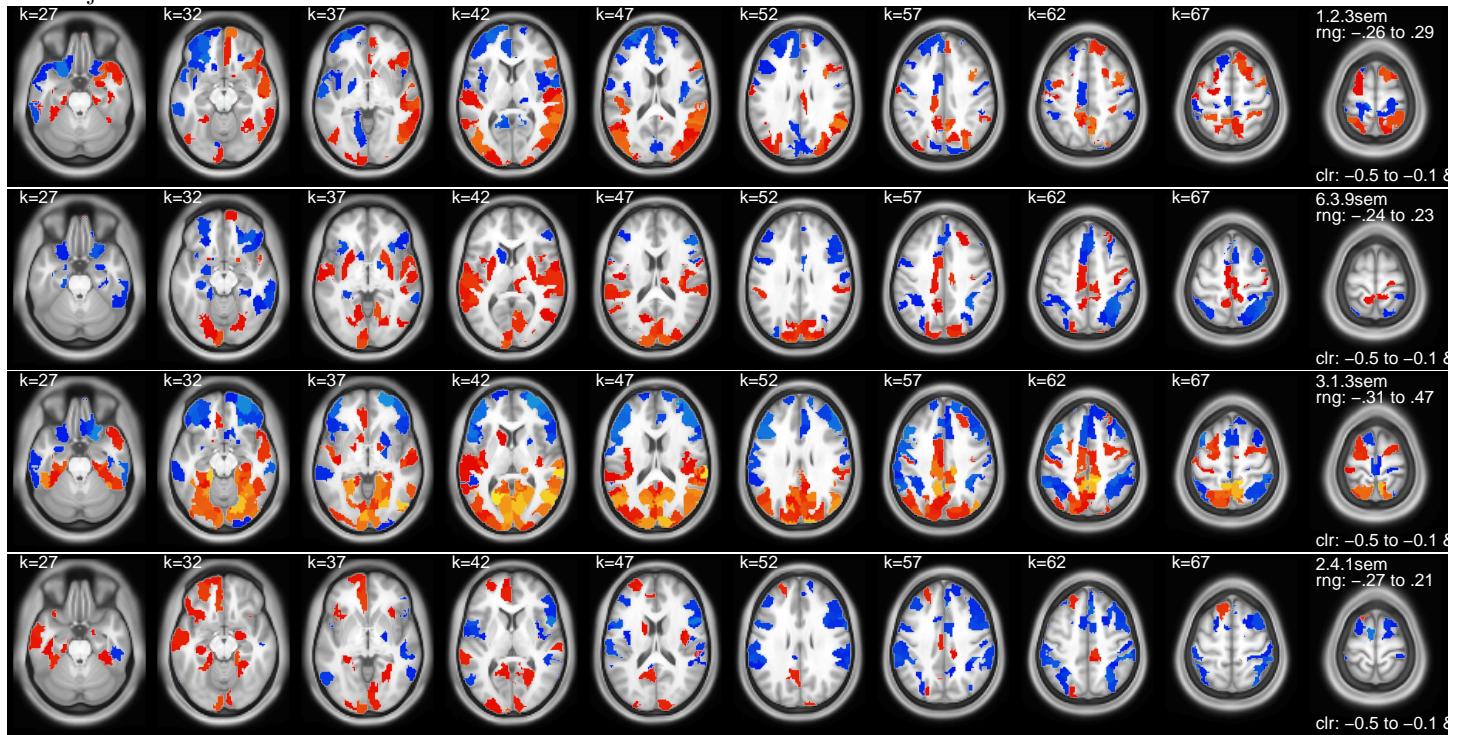
subject 22 the four runs



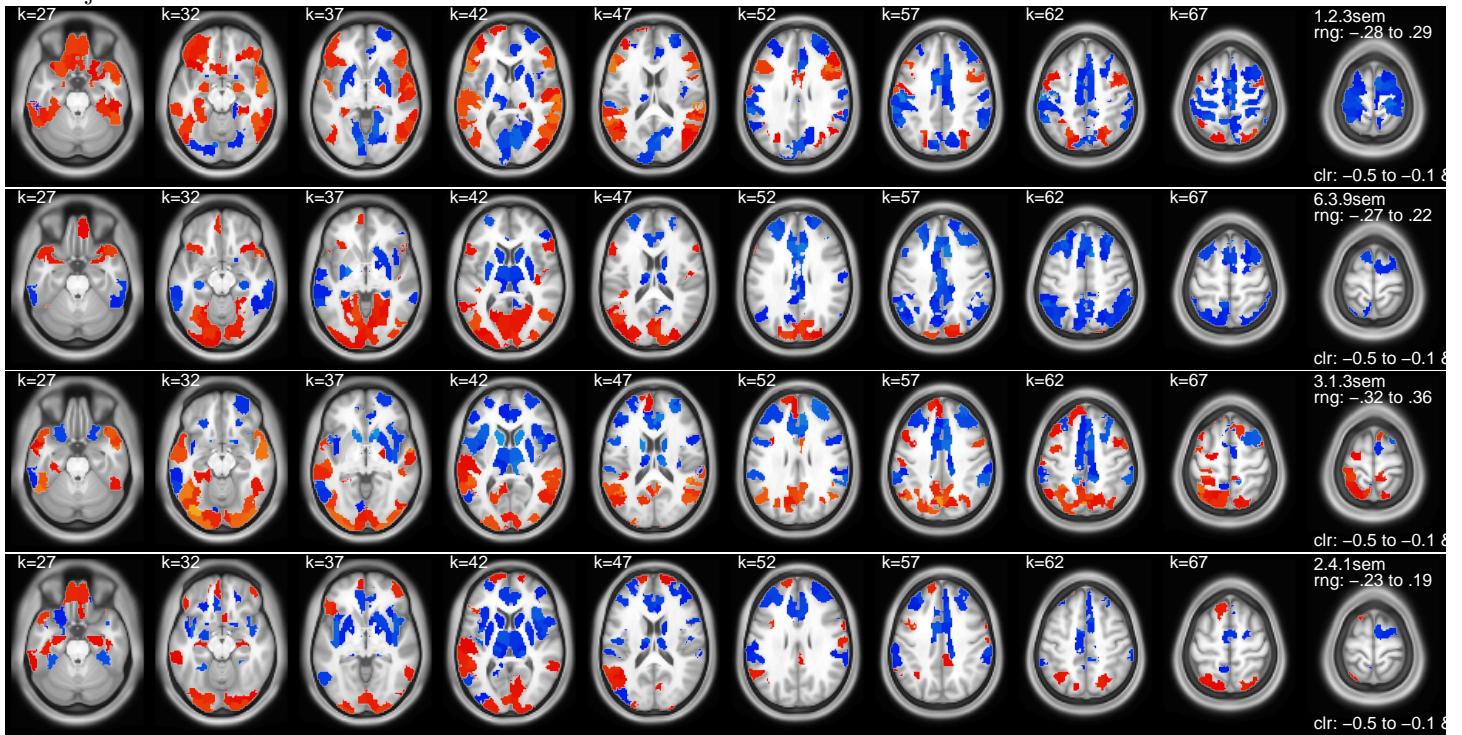
subject 23 the four runs



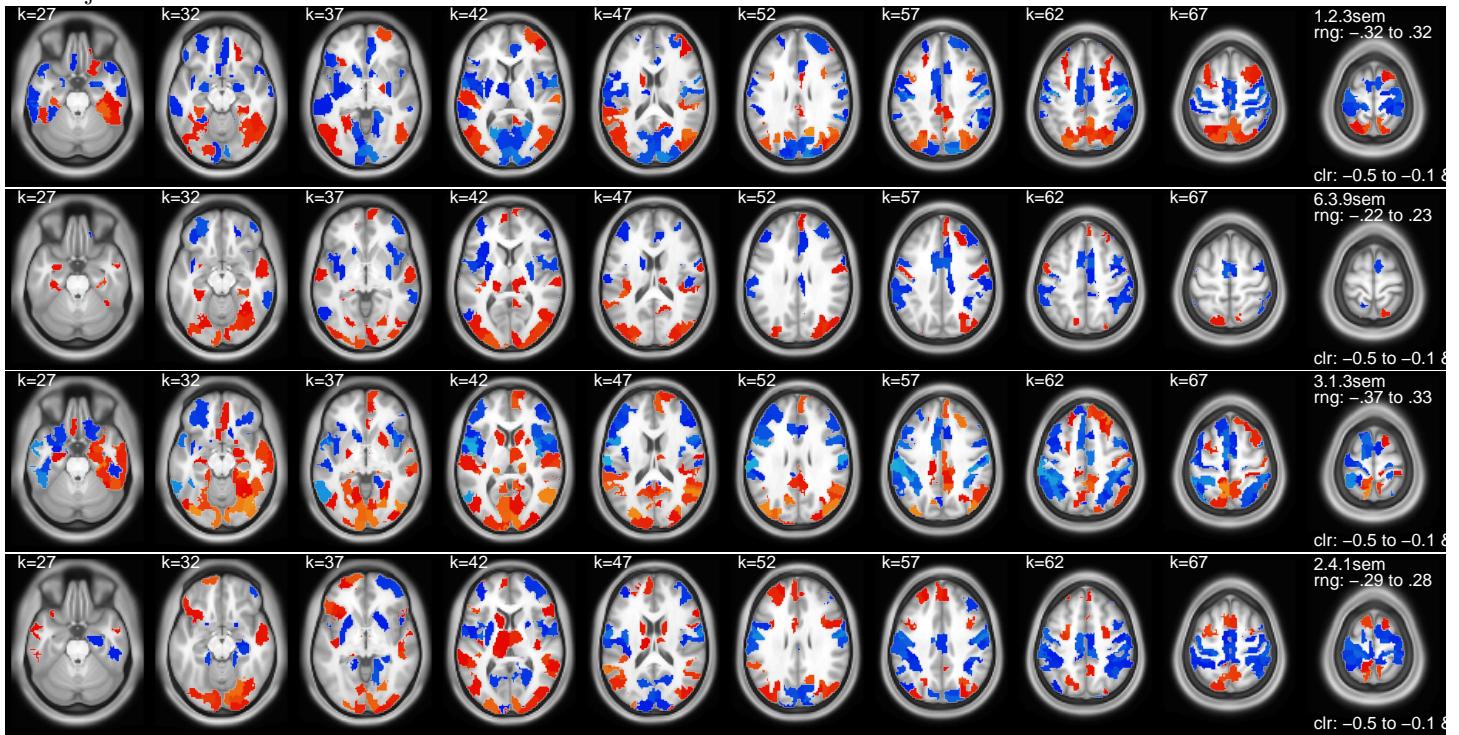
subject 24 the four runs



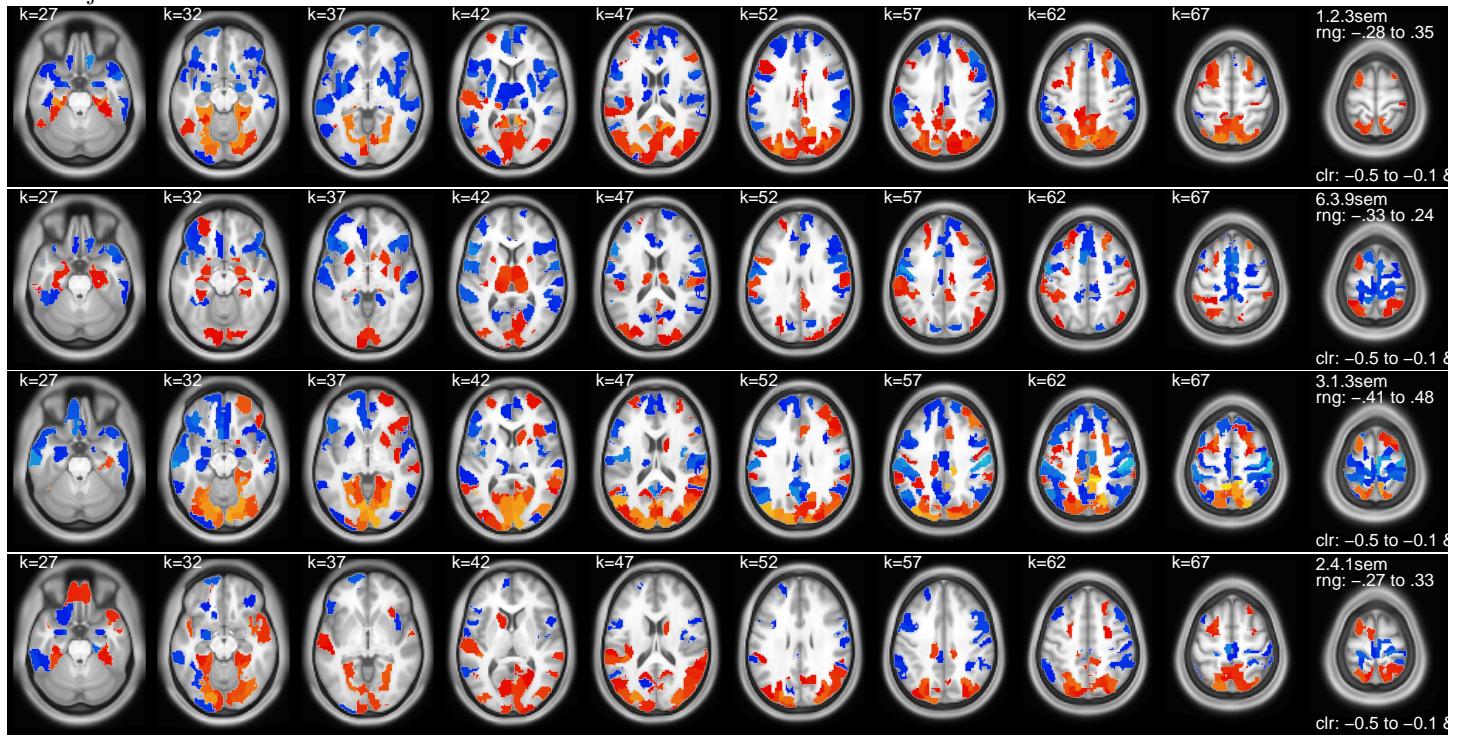
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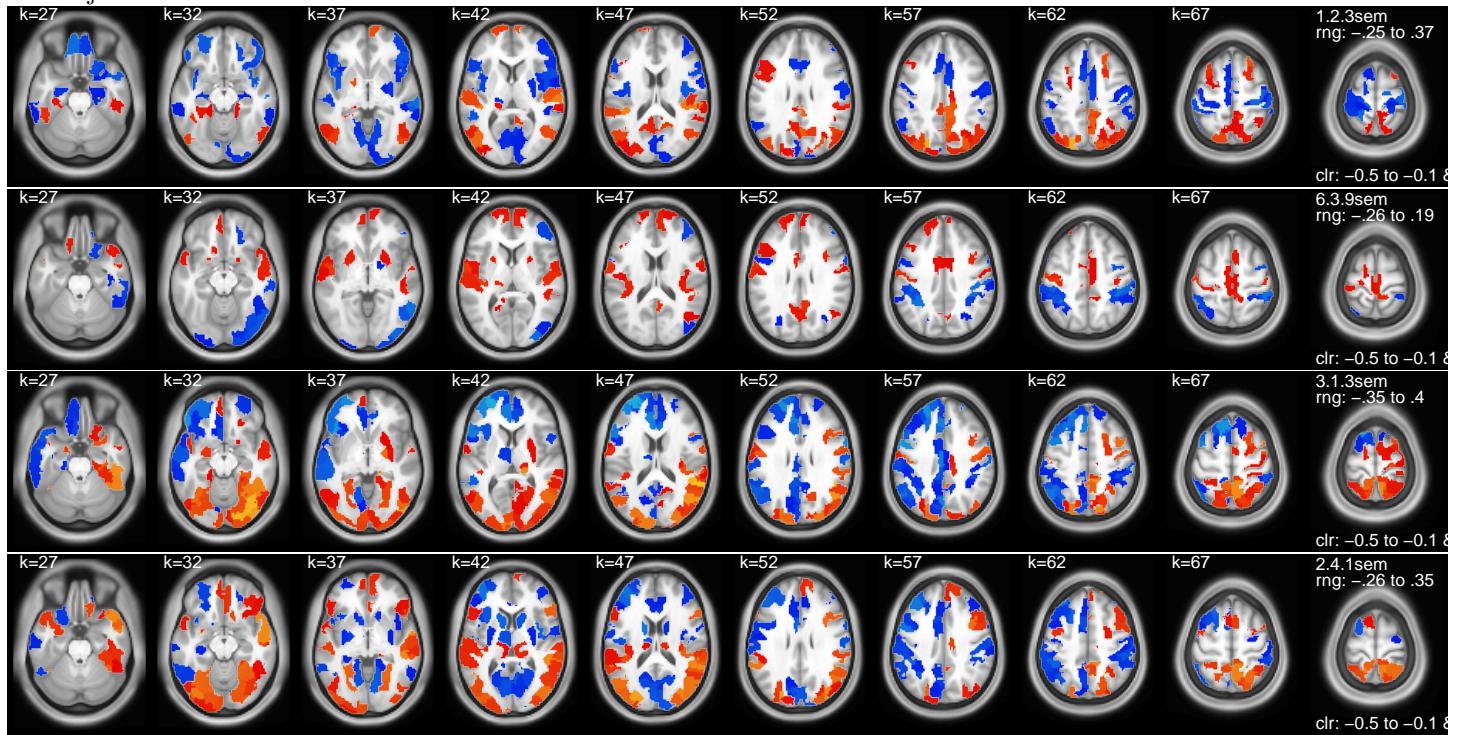
subject 26 the four runs



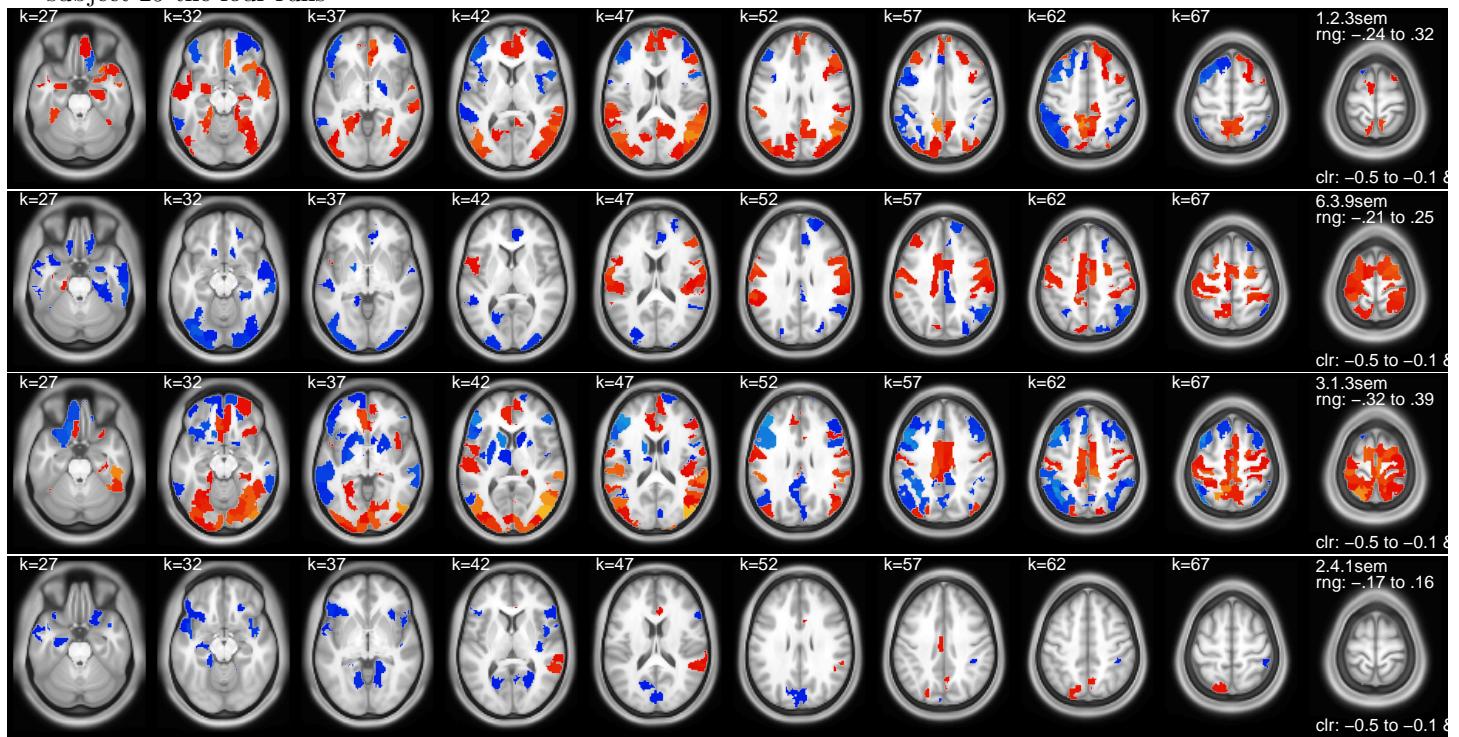
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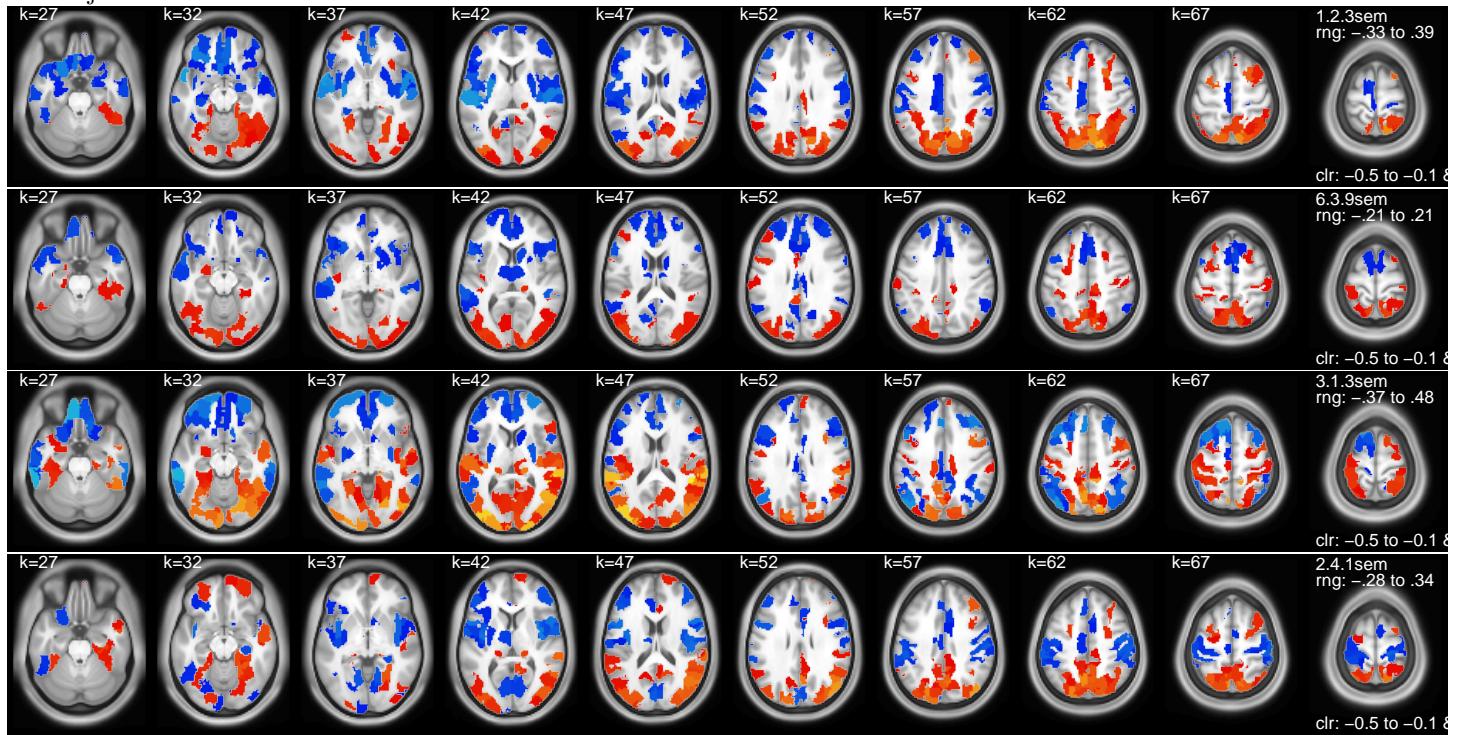
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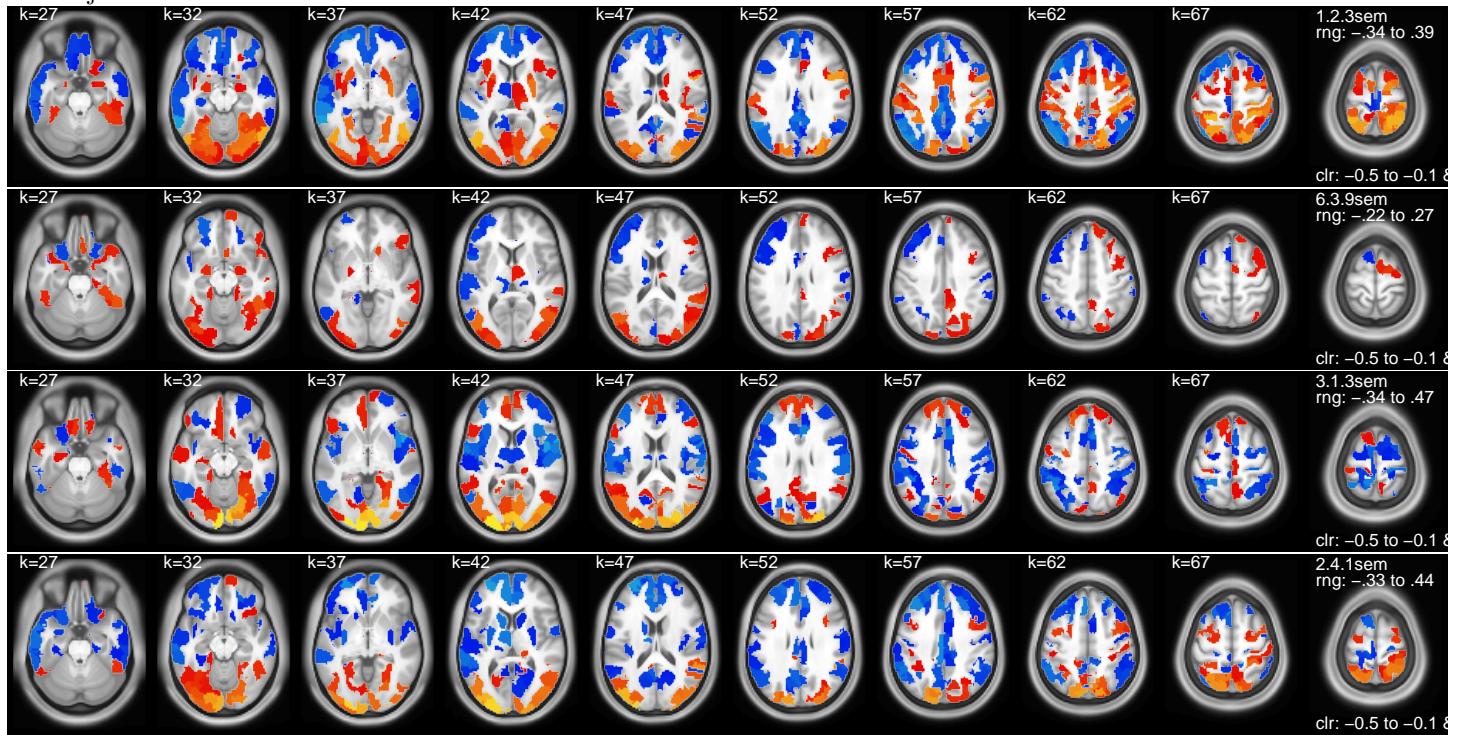
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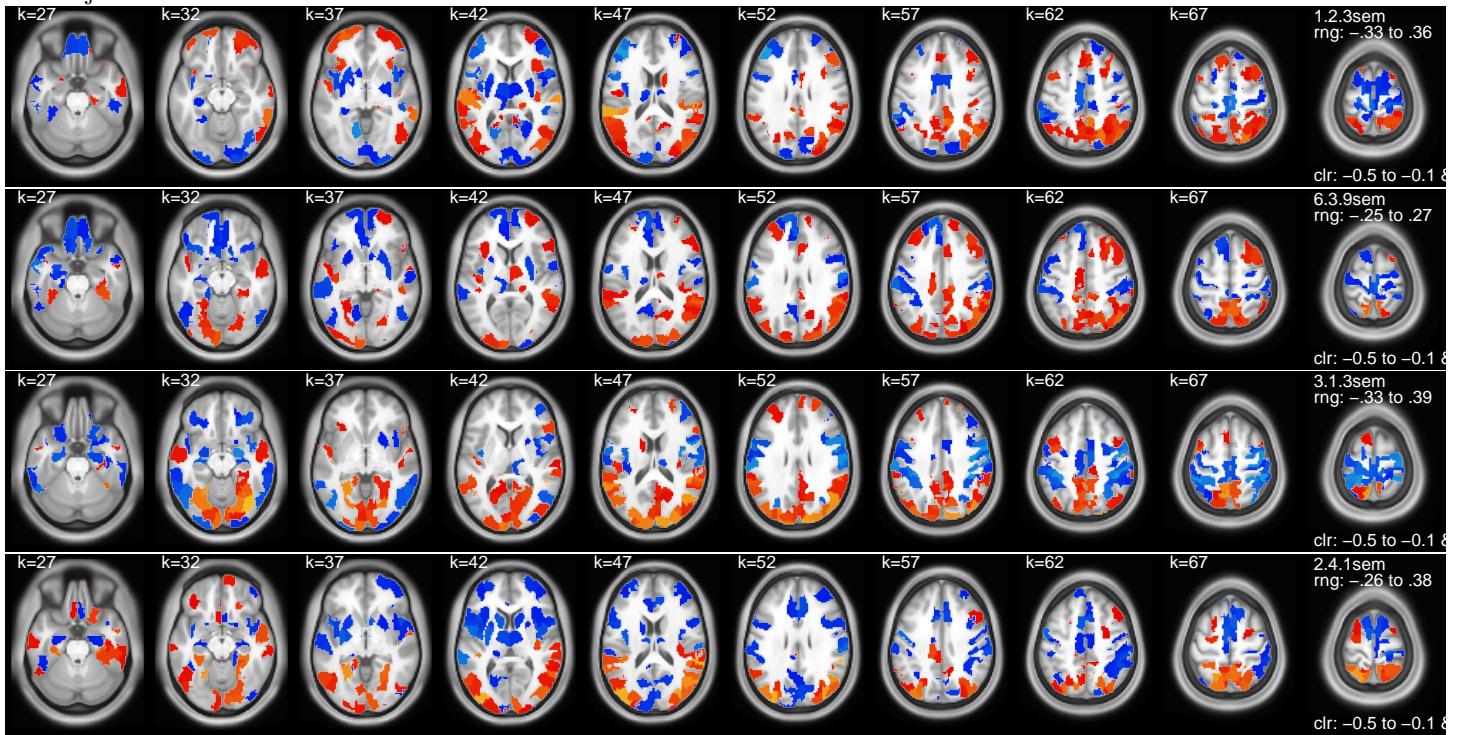
subject 30 the four runs



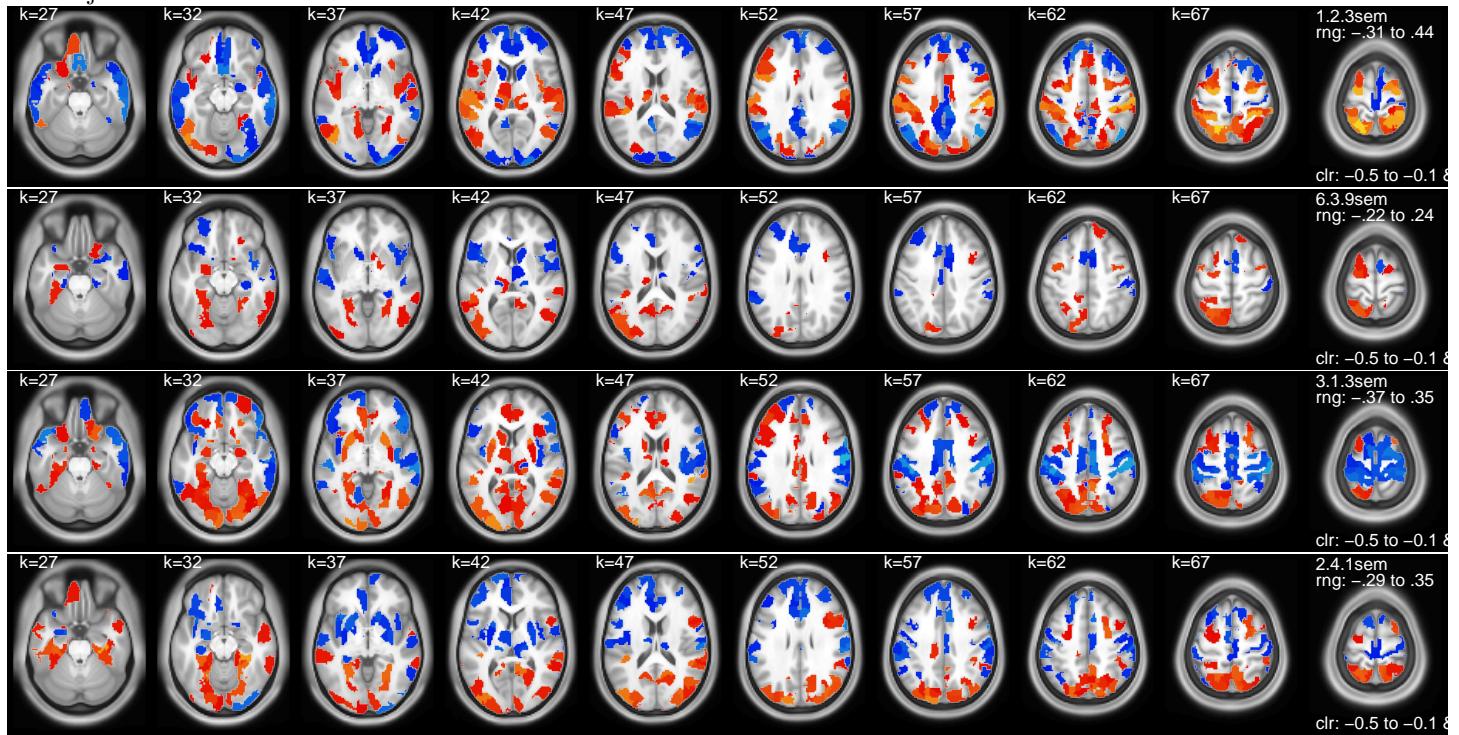
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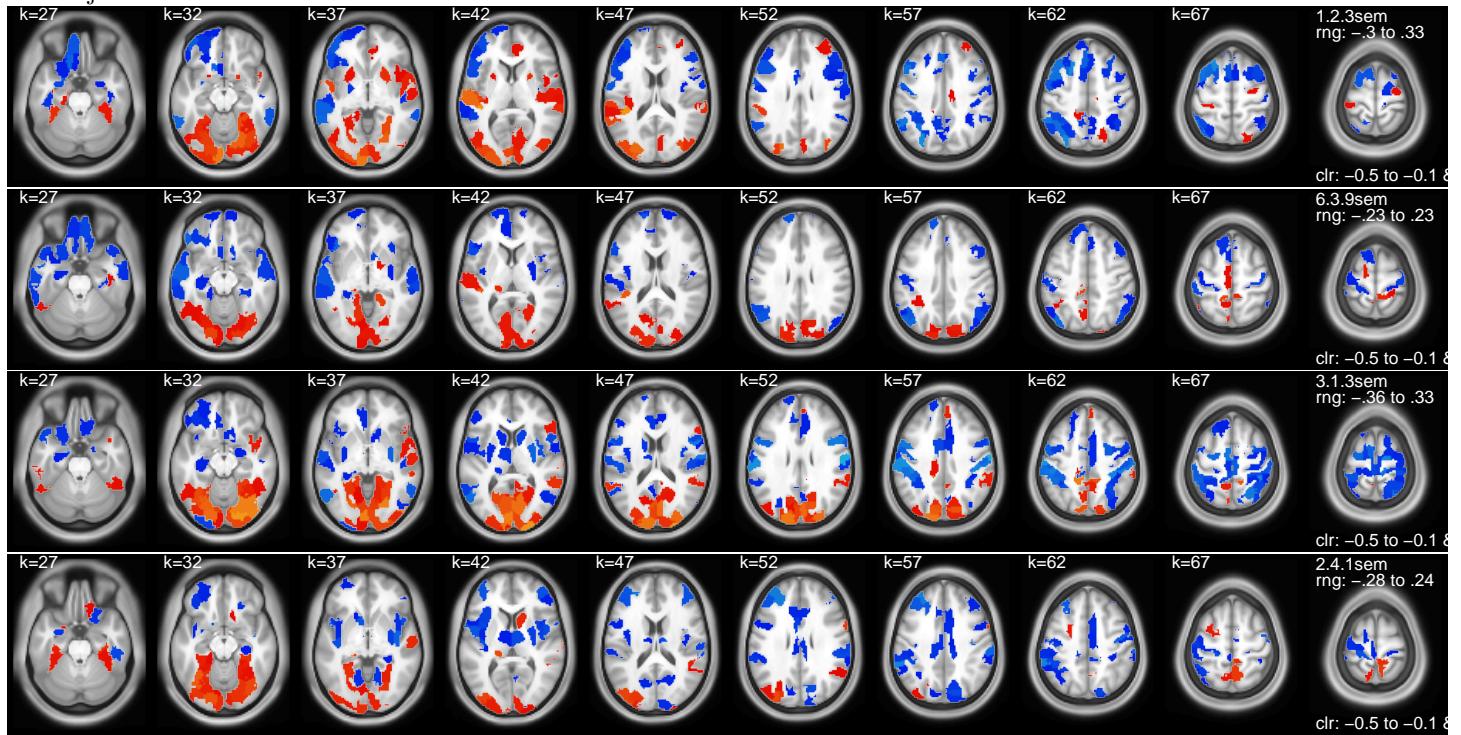
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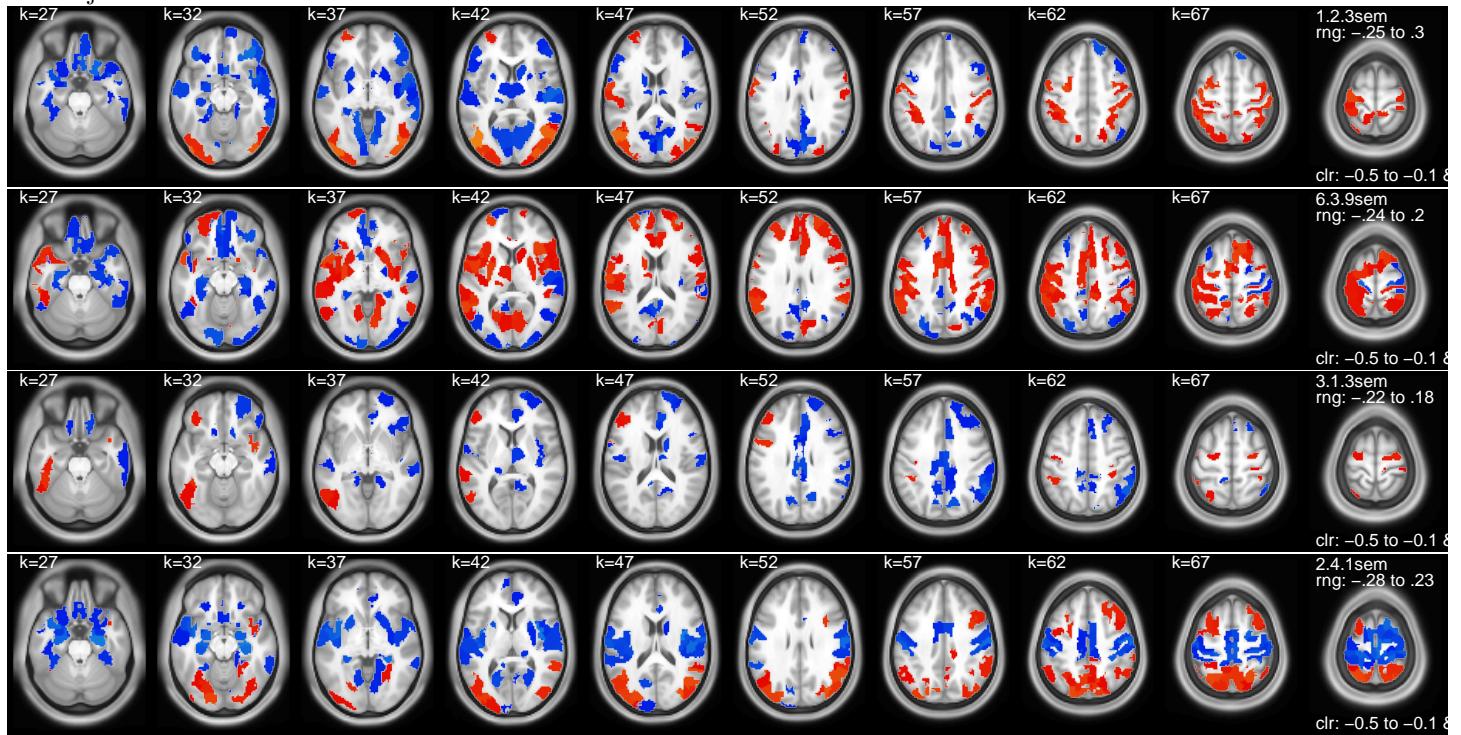
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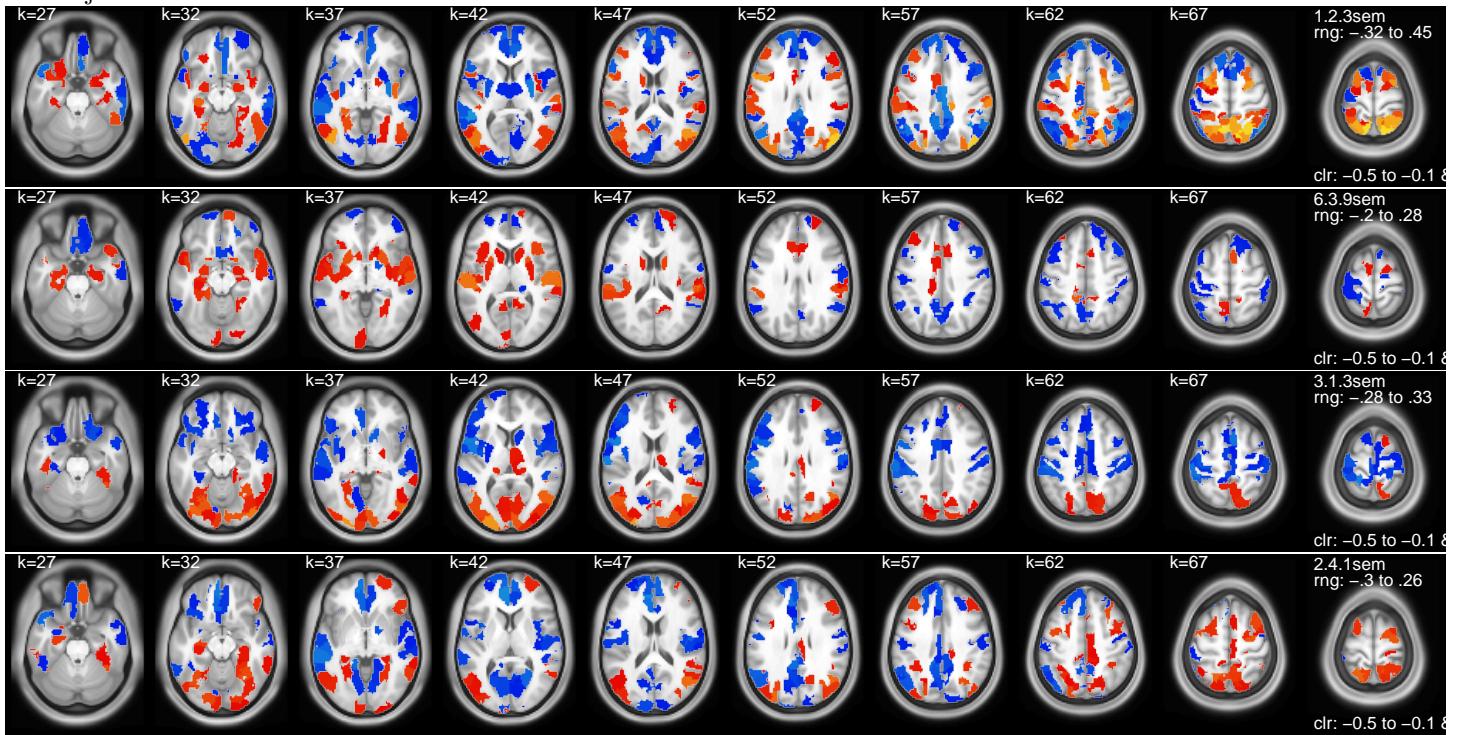
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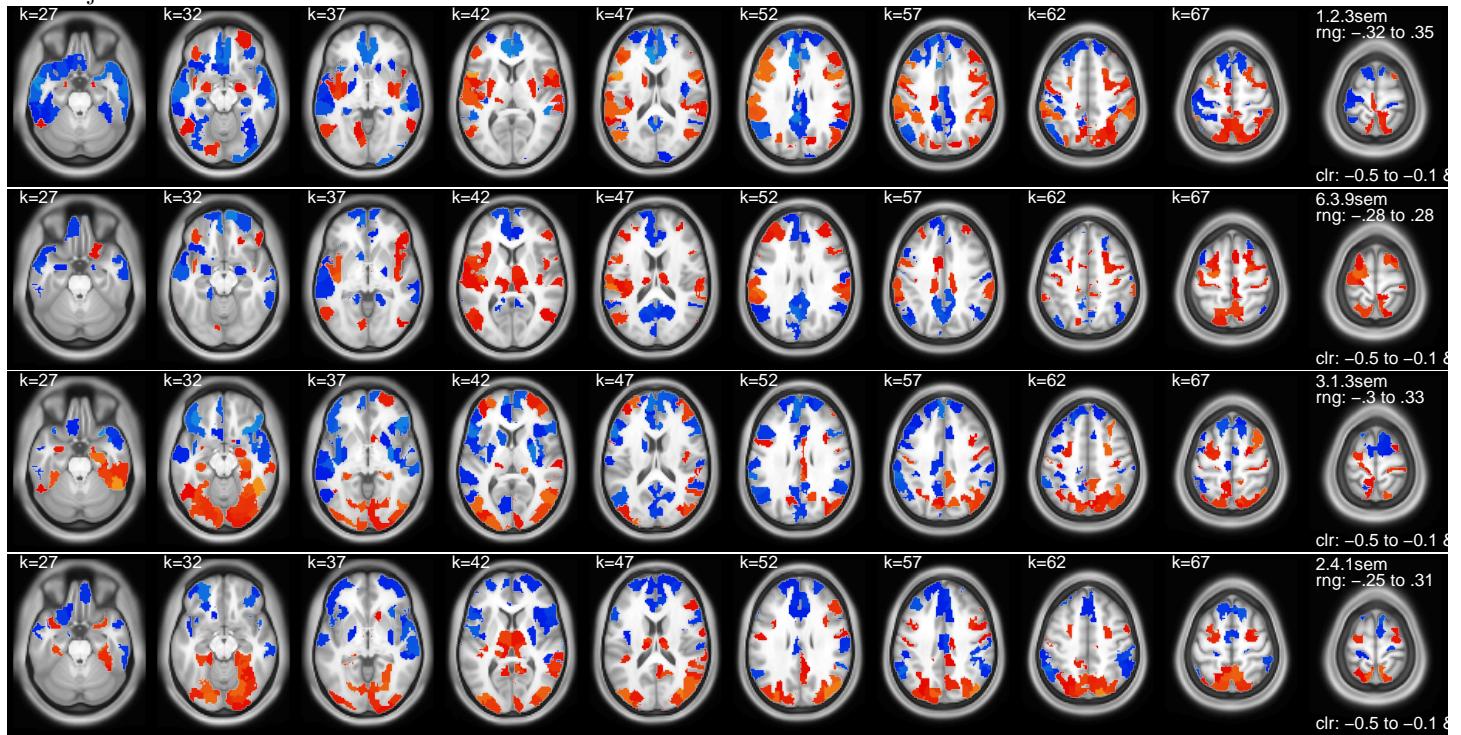
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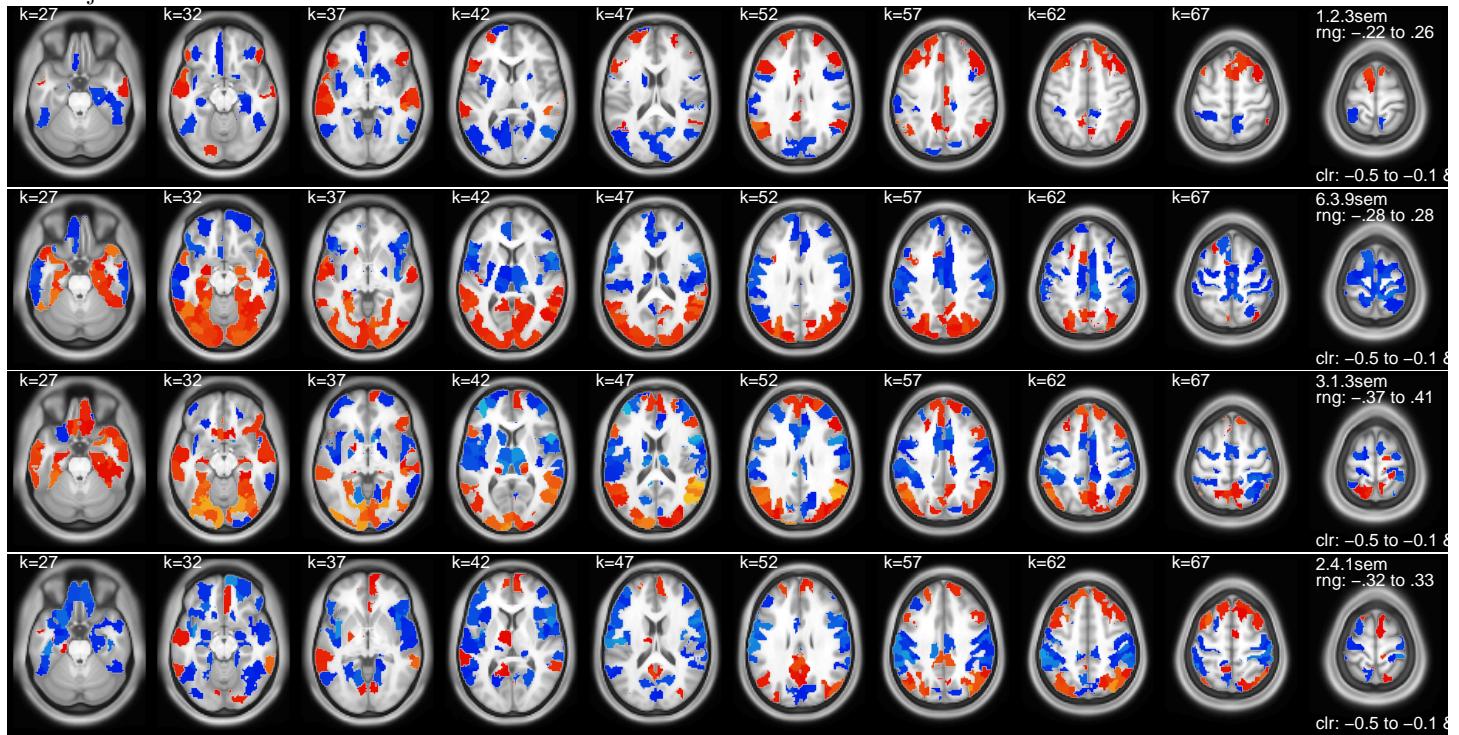
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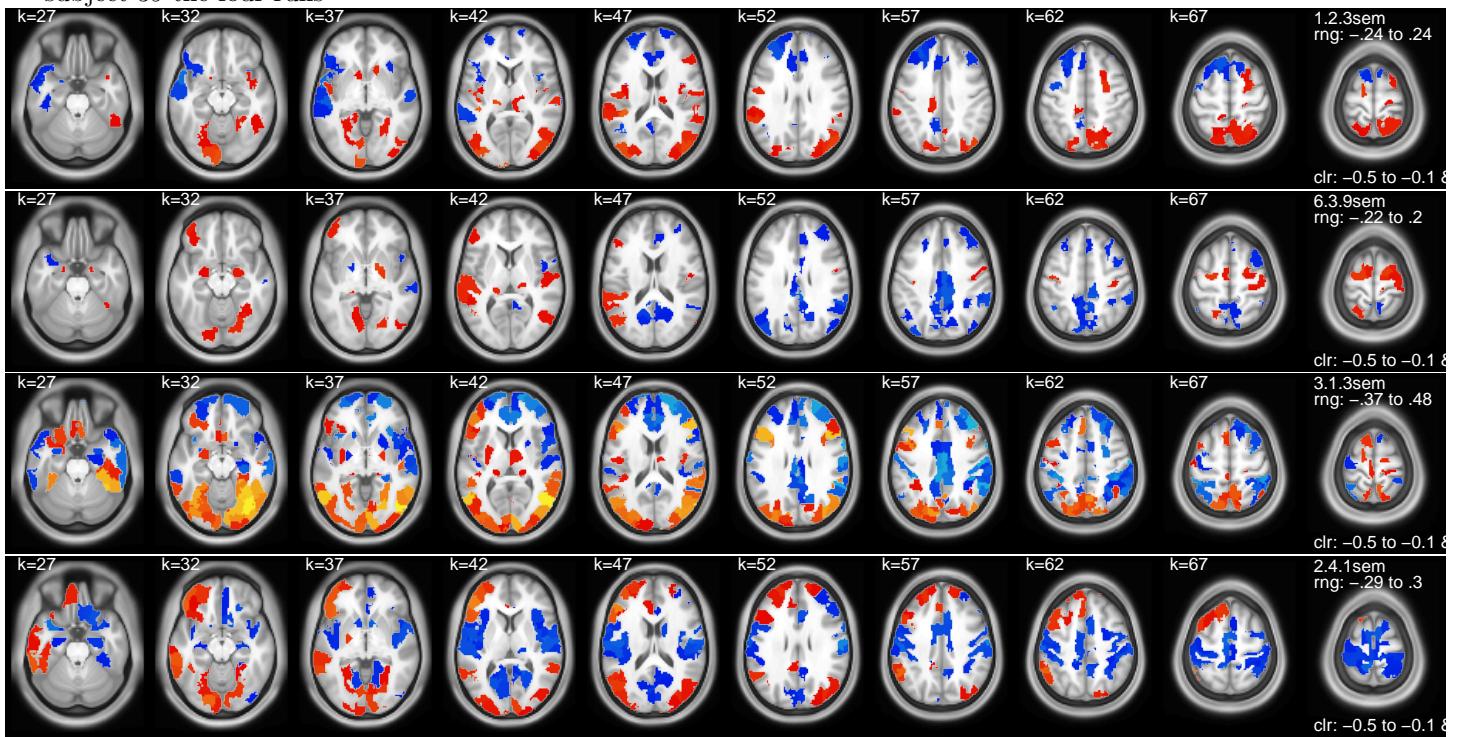
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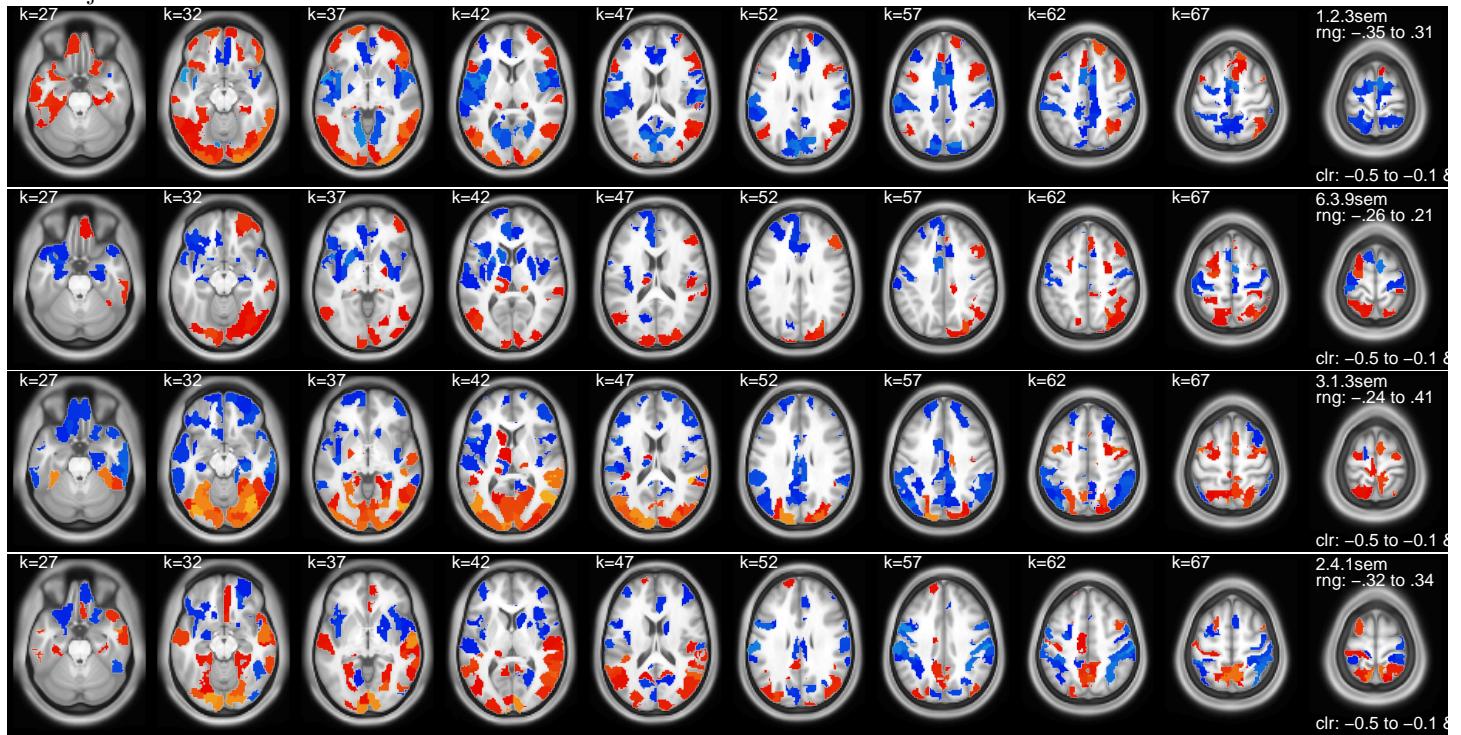
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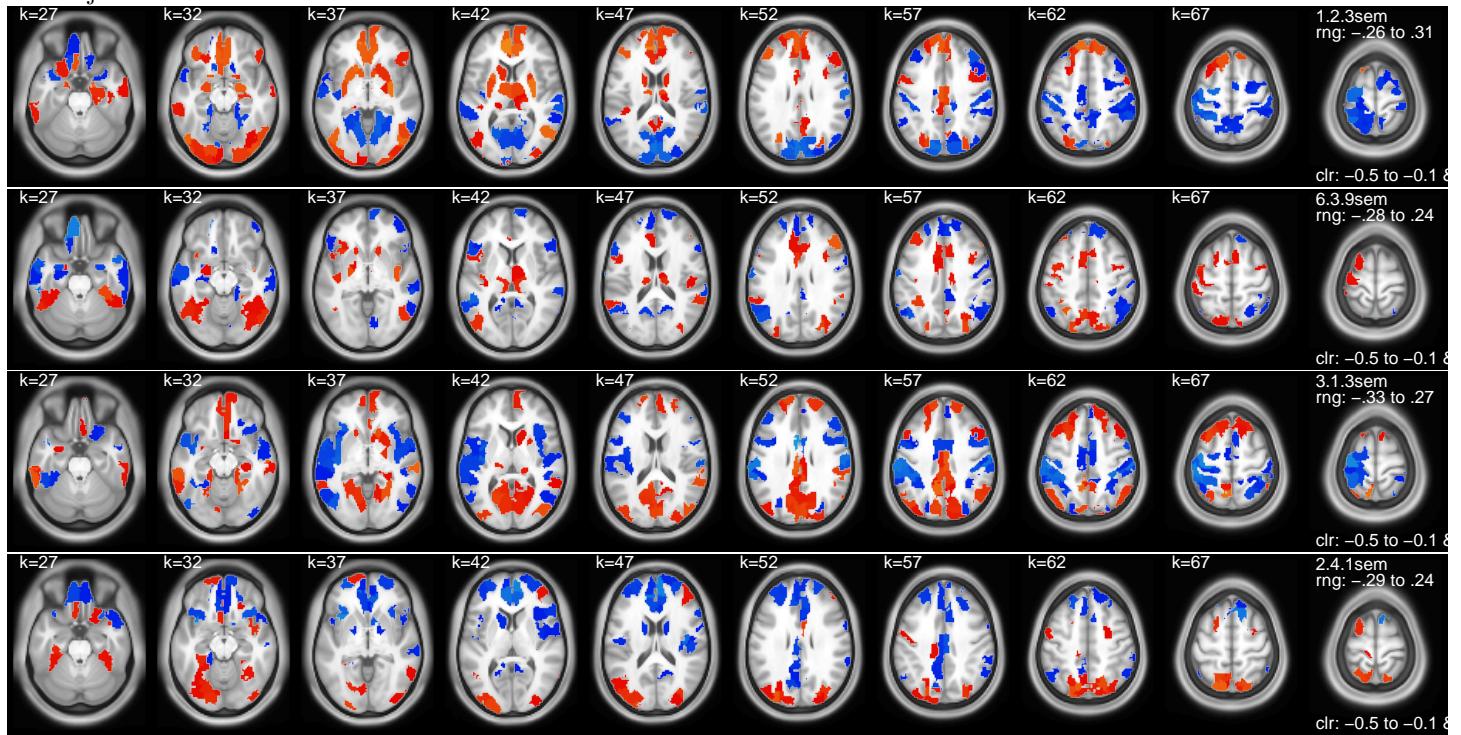
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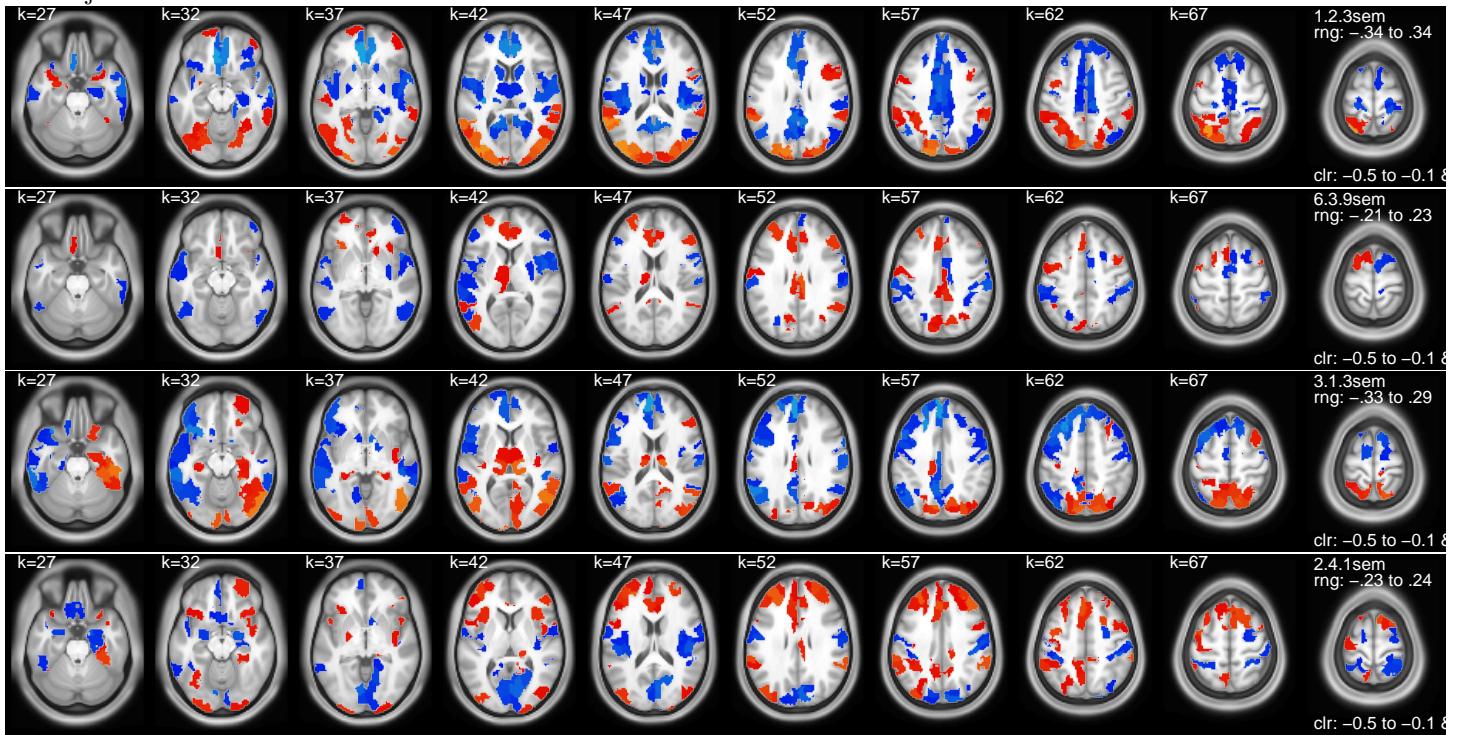
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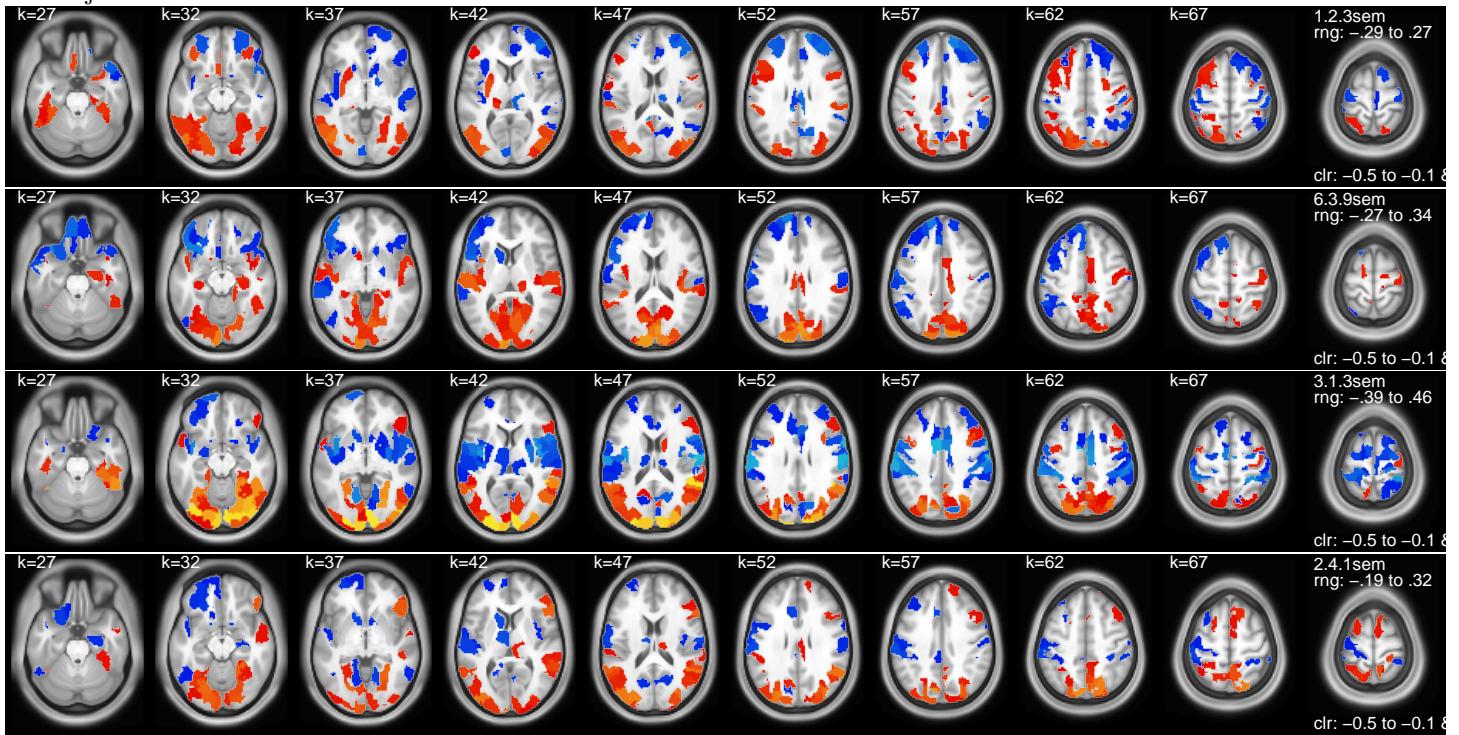
subject 41 the four runs



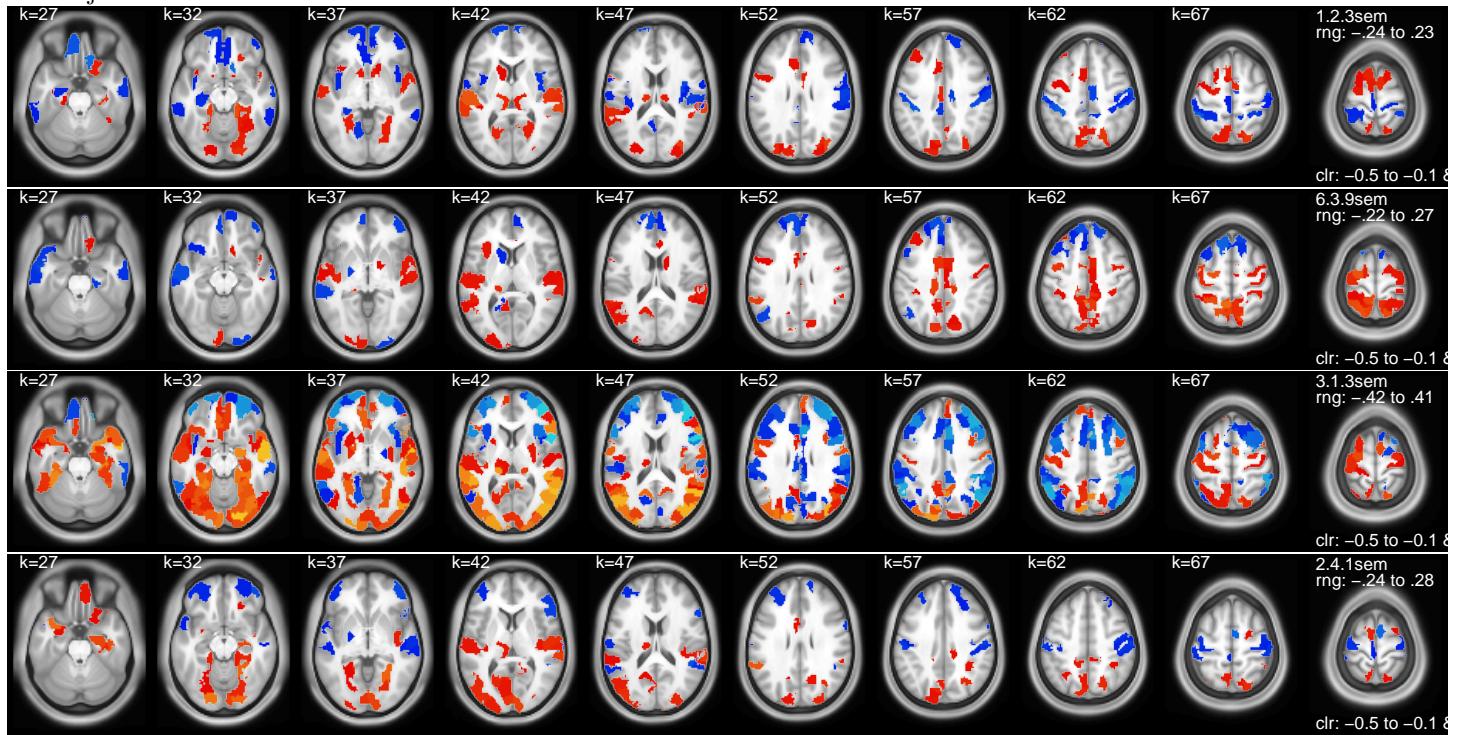
subject 42 the four runs



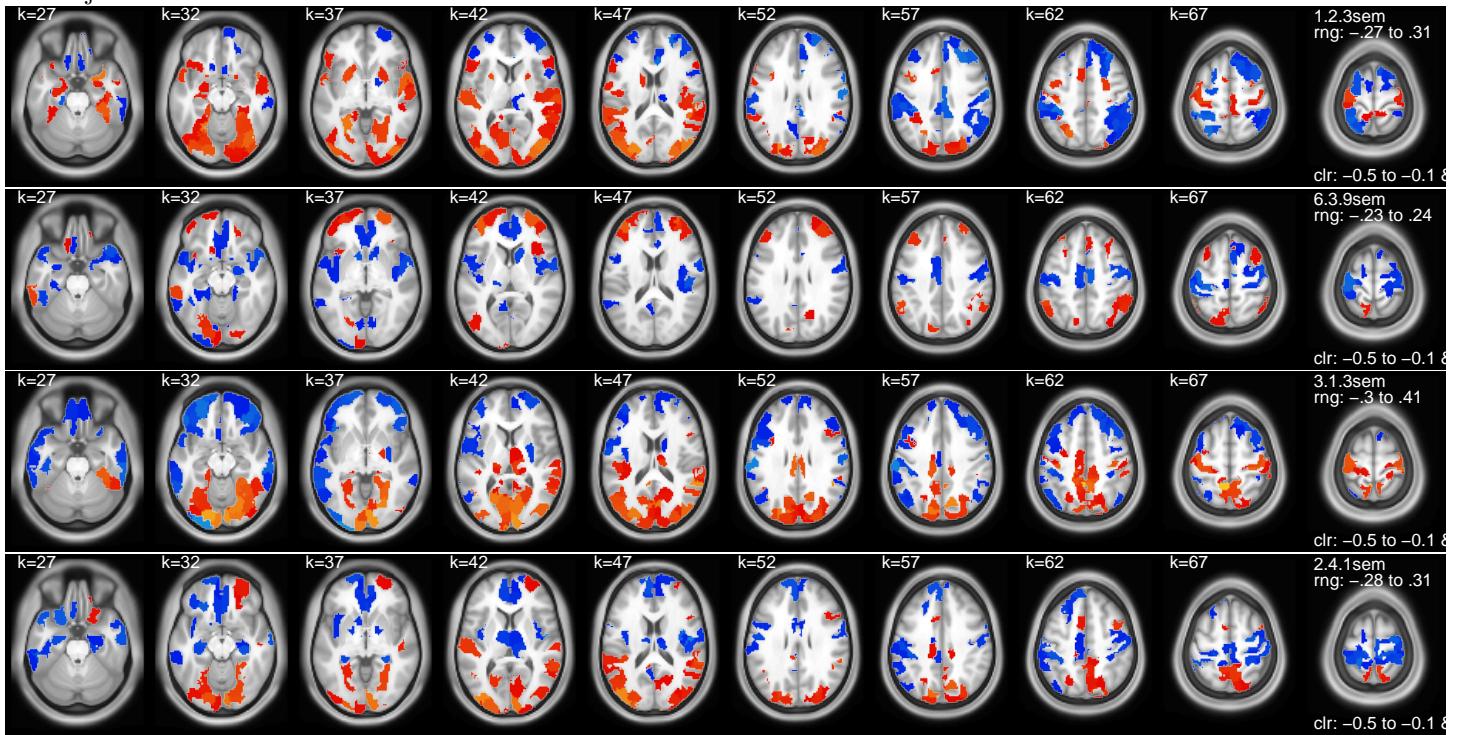
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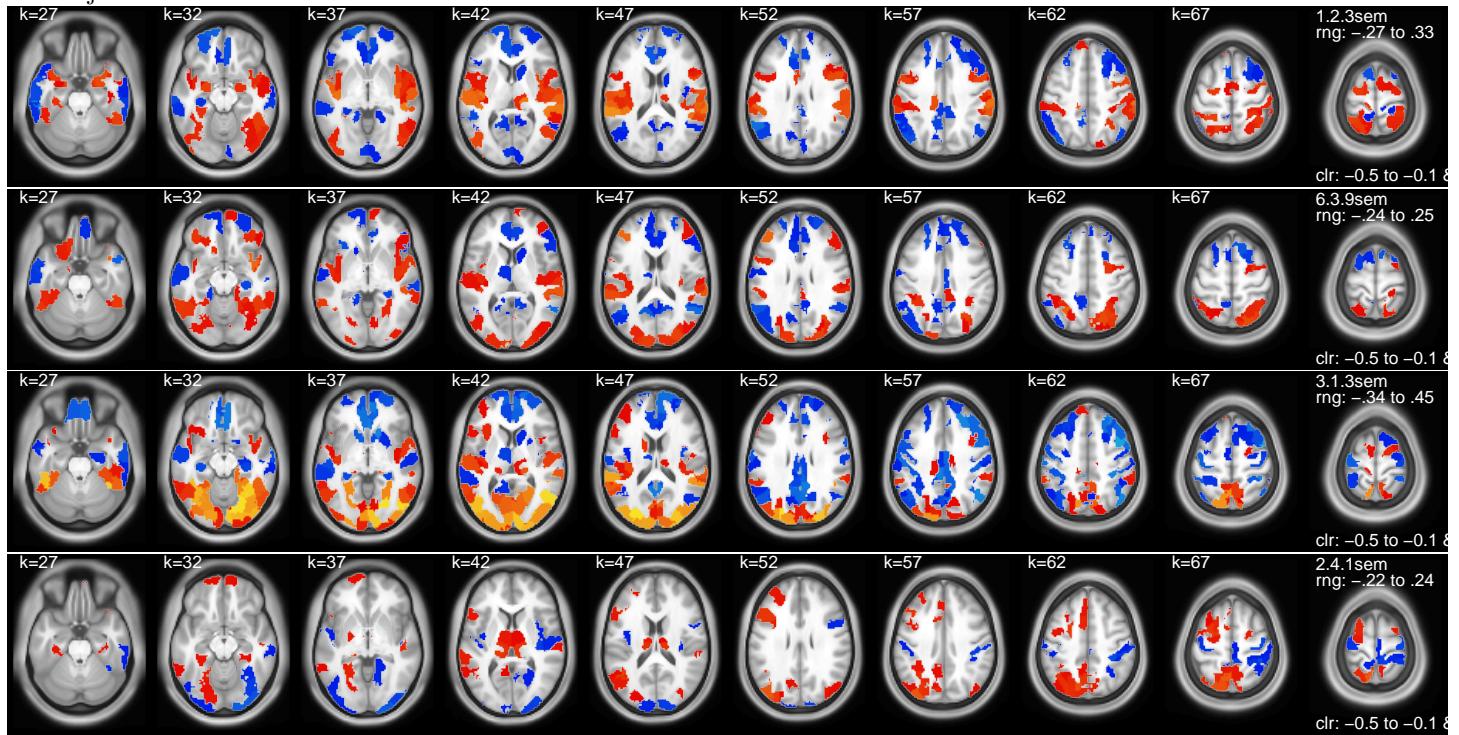
subject 44 the four runs



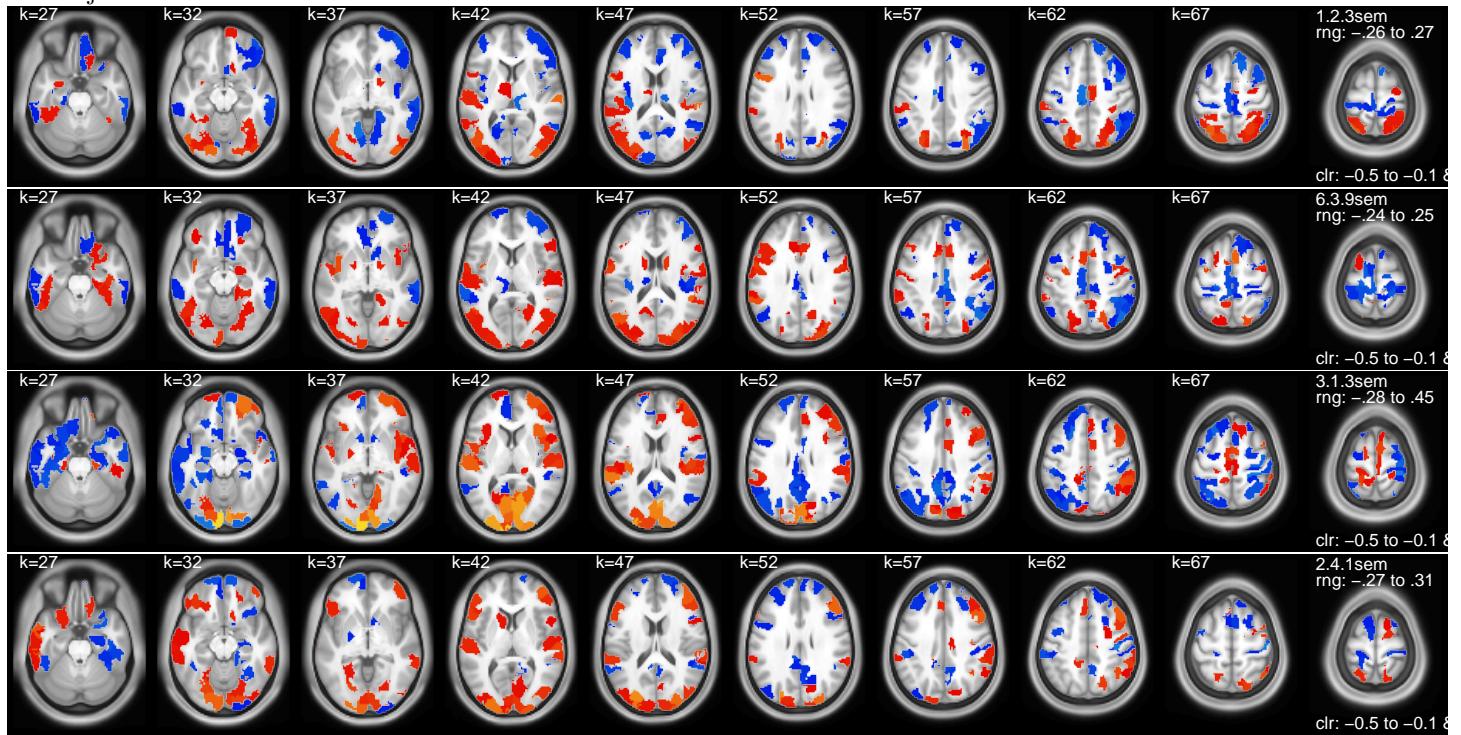
subject 45 the four runs



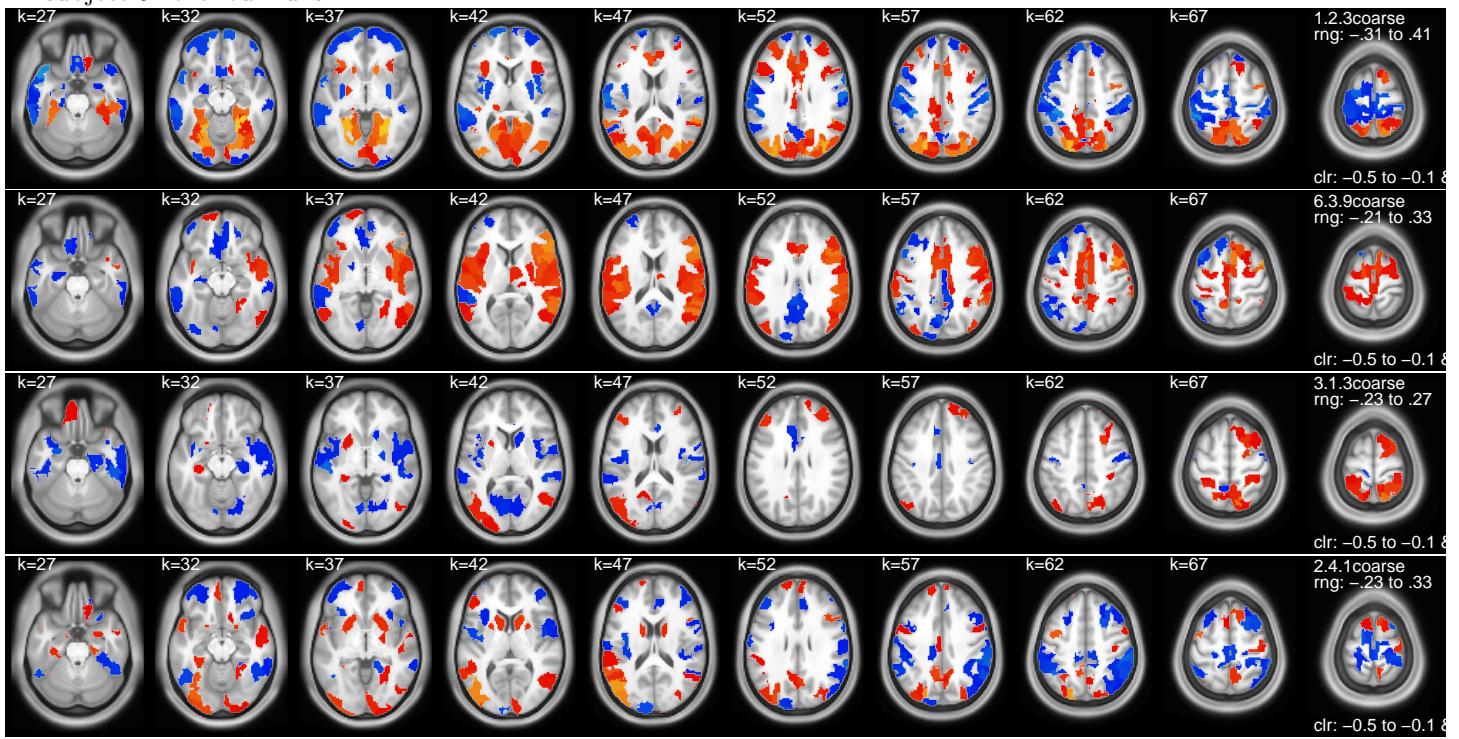
subject 46 the four runs



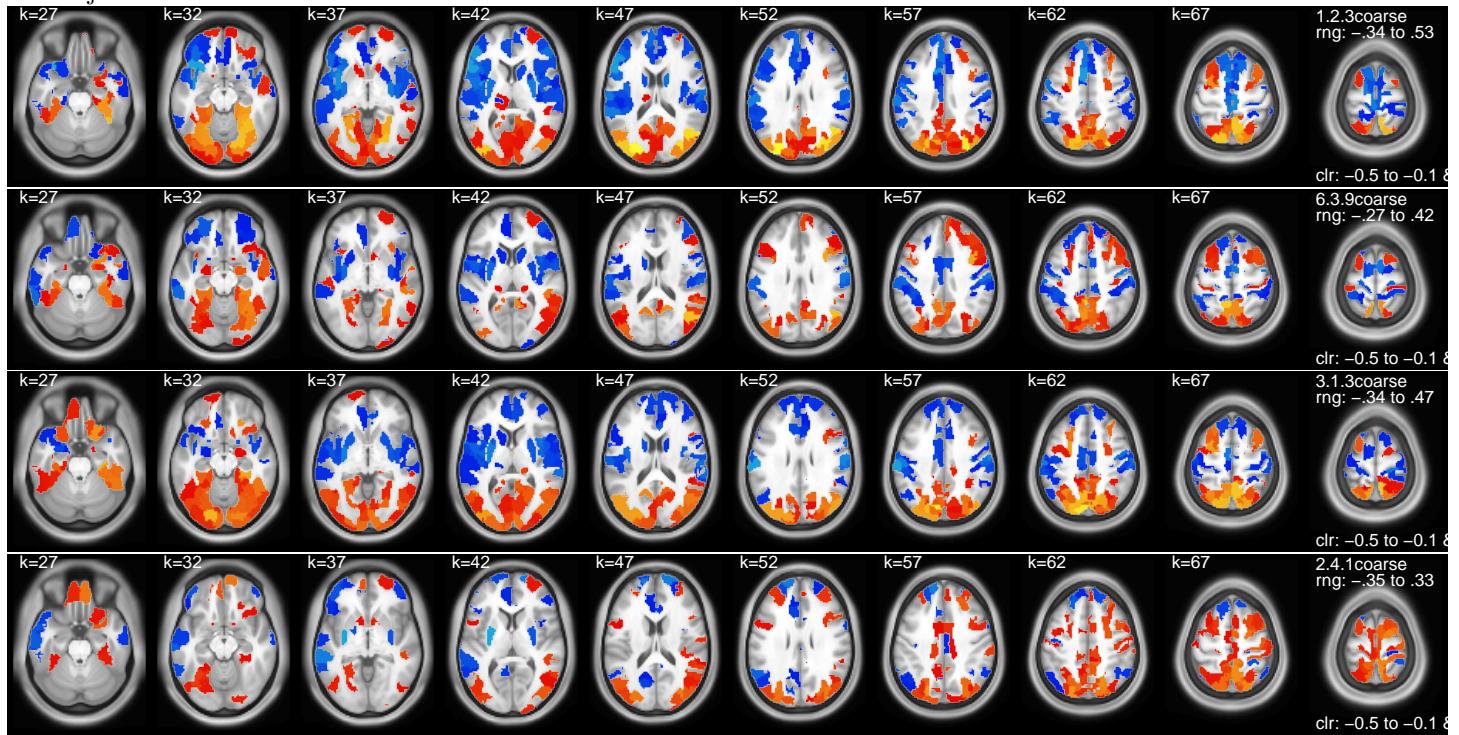
subject 47 the four runs



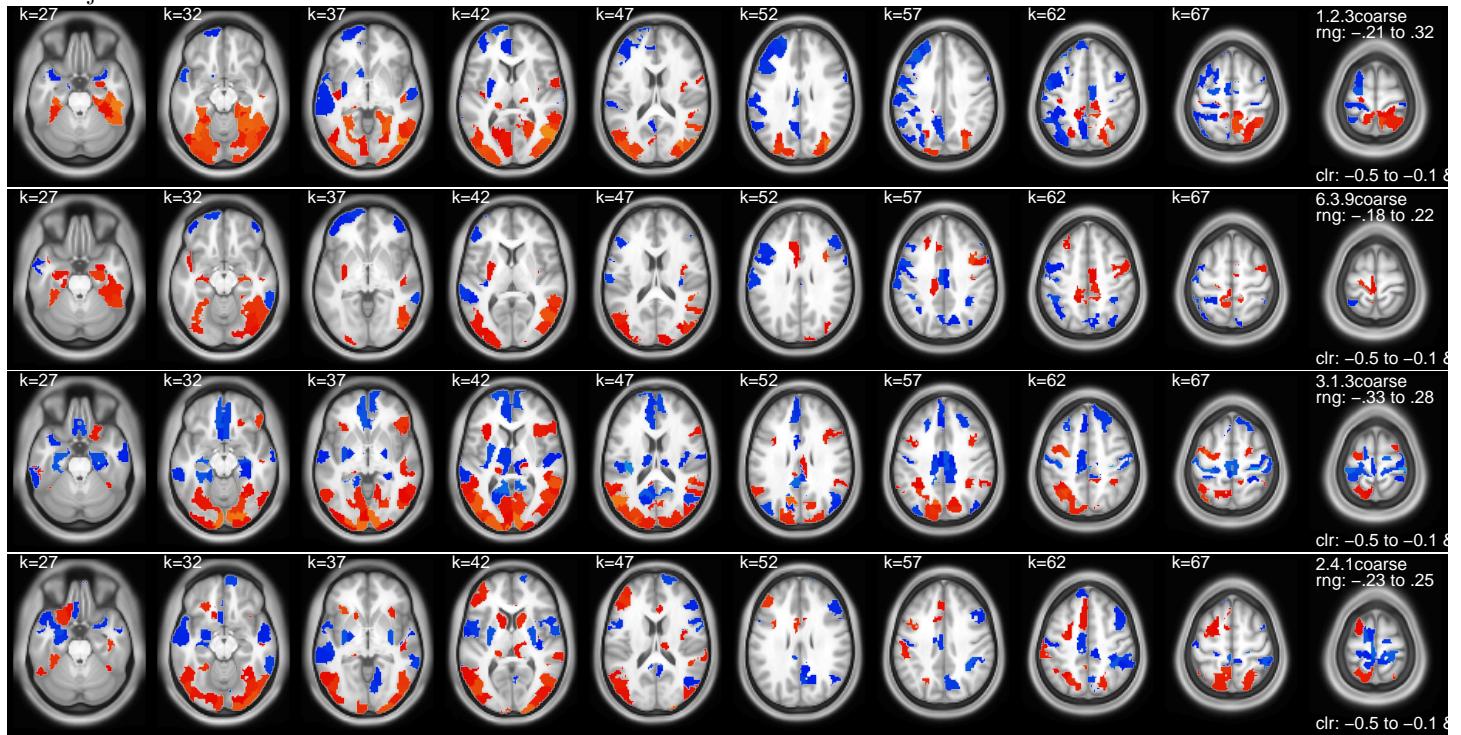
plot coarse correlations with parcel timeseries  
subject 01 the four runs



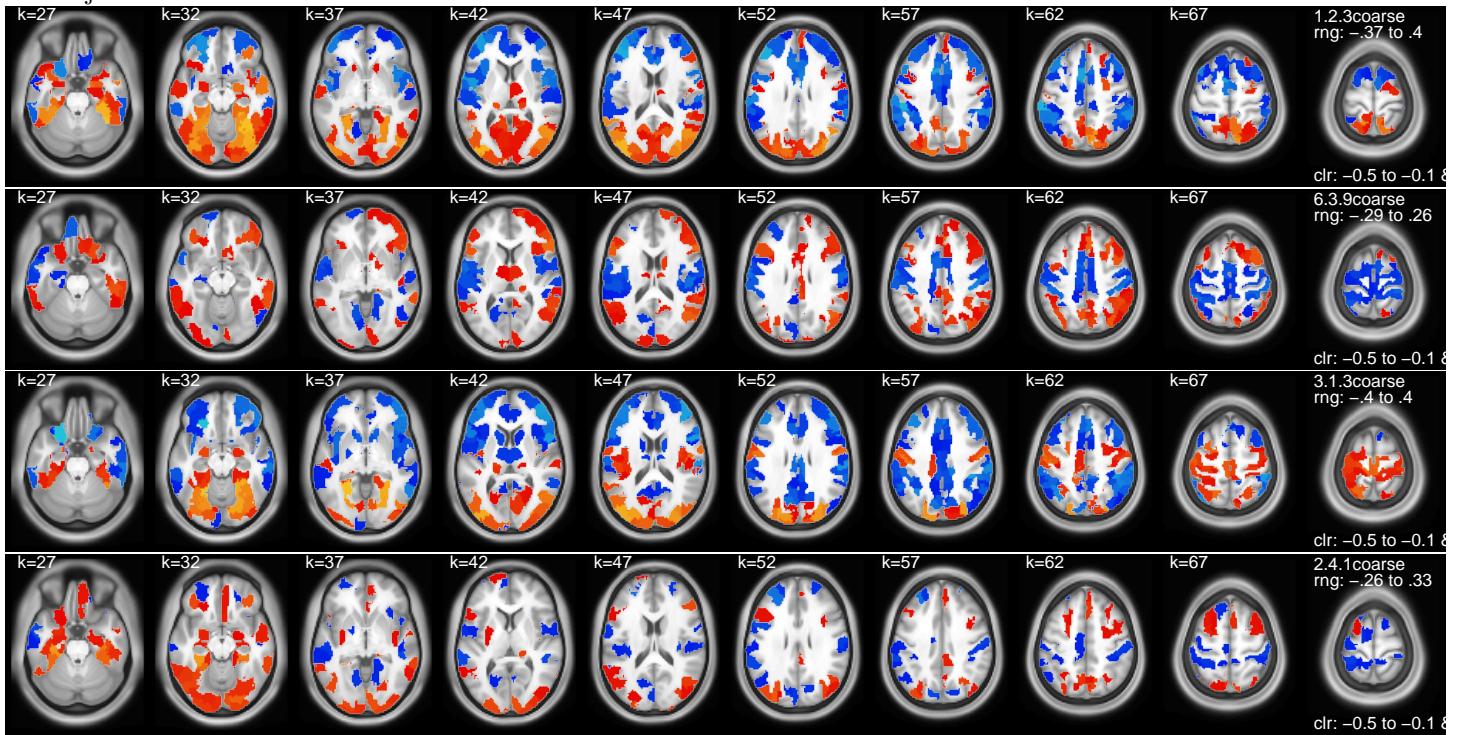
subject 02 the four runs



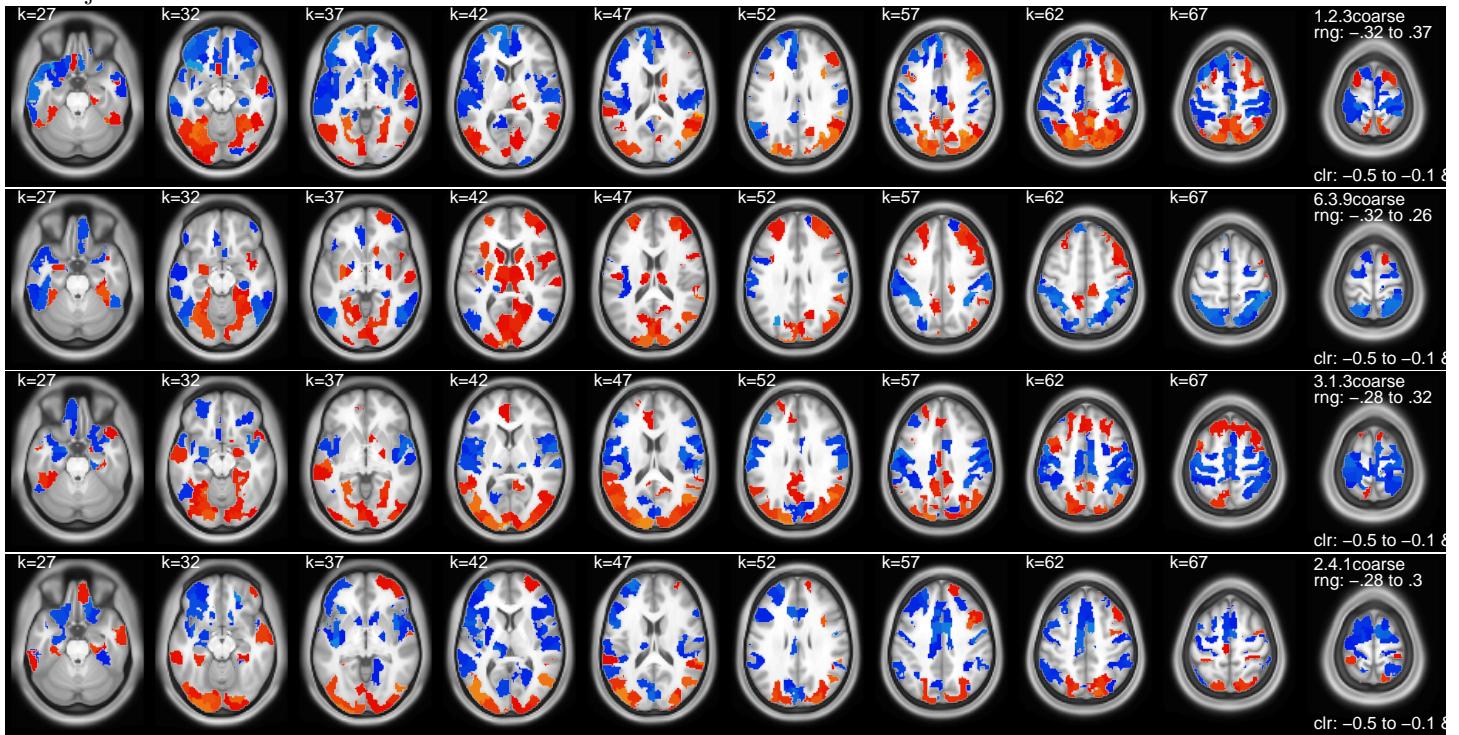
subject 03 the four runs



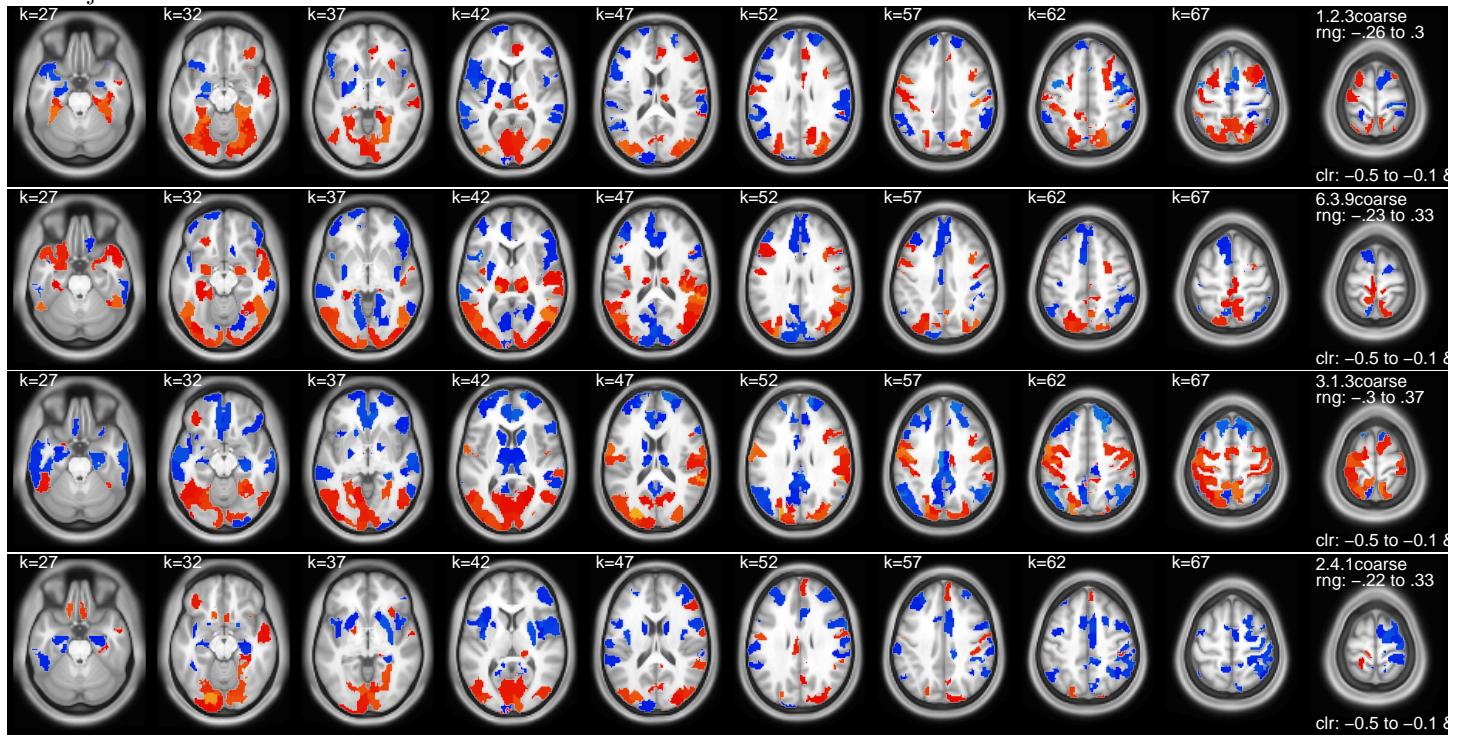
subject 04 the four runs



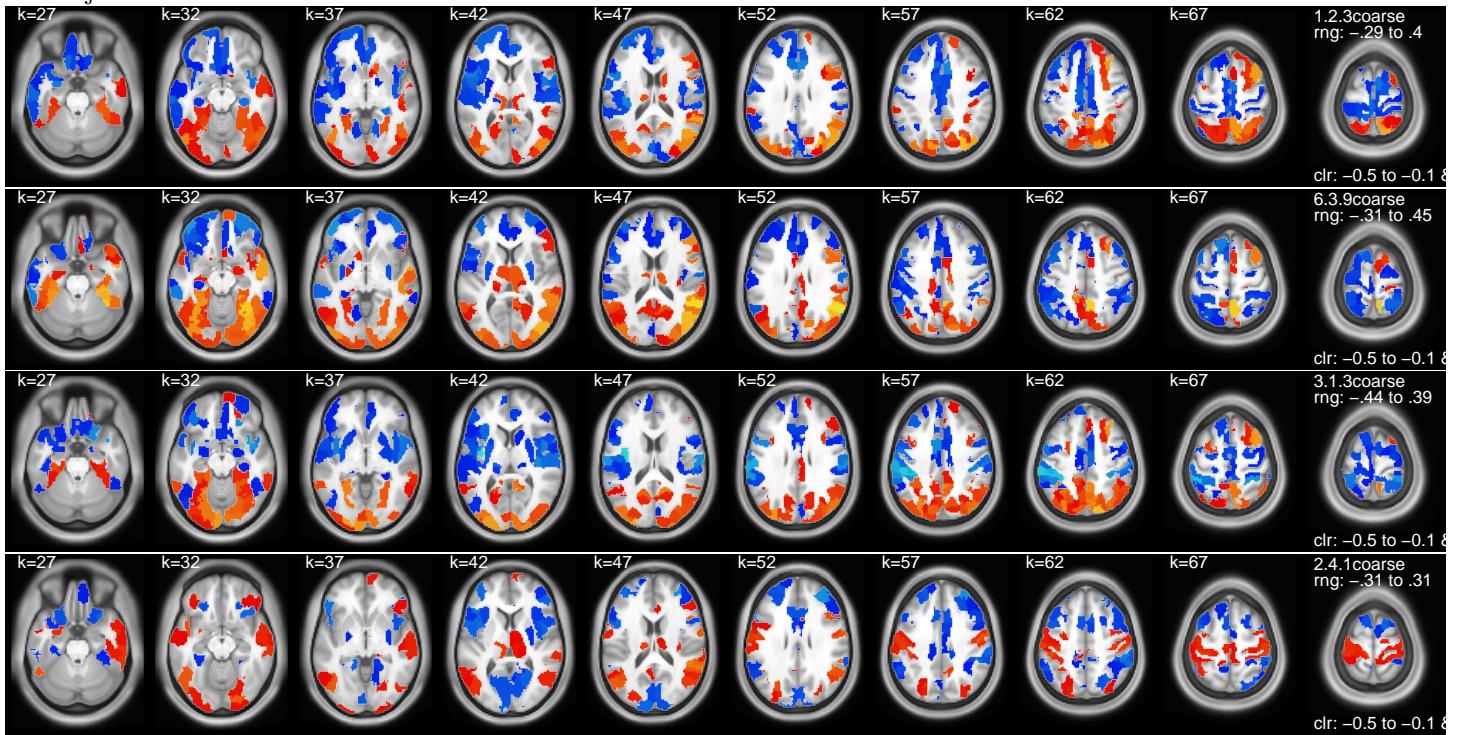
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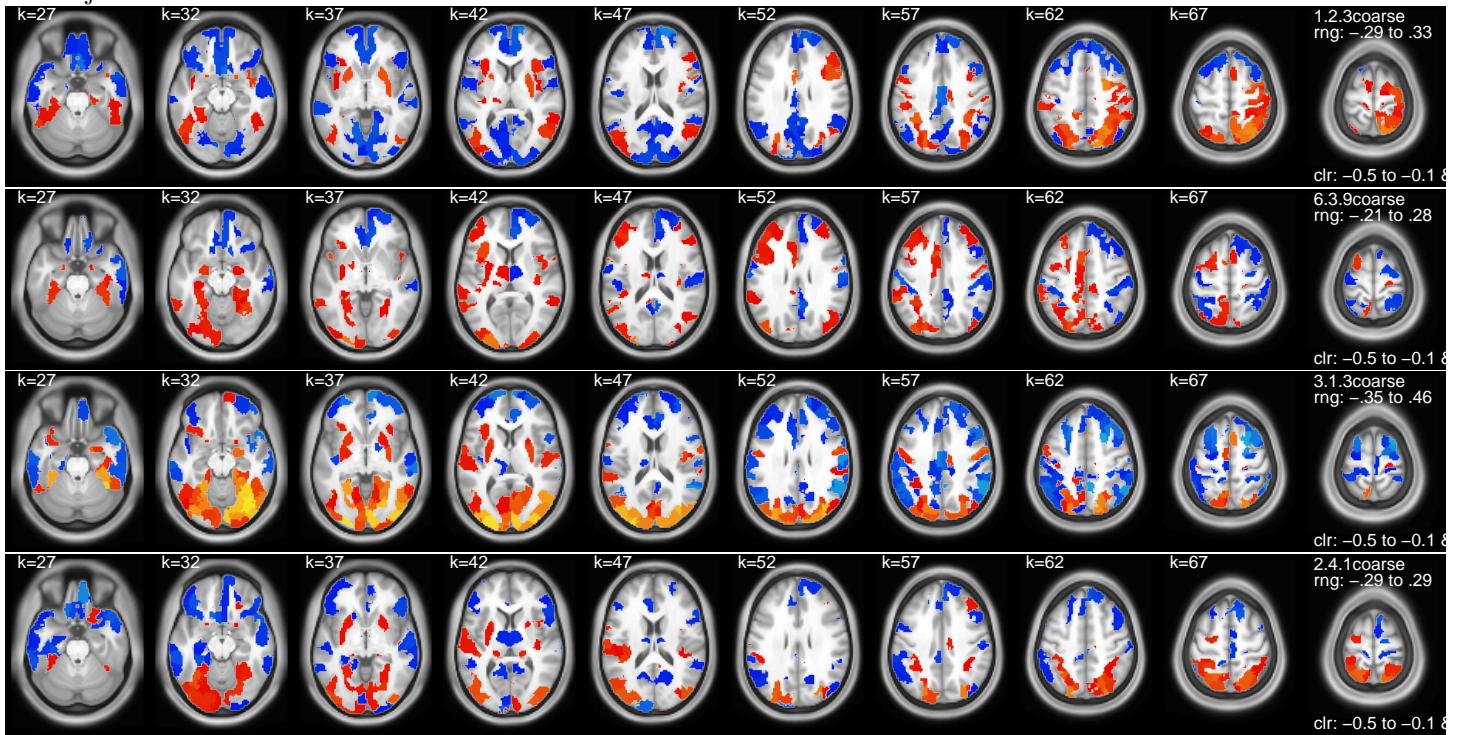
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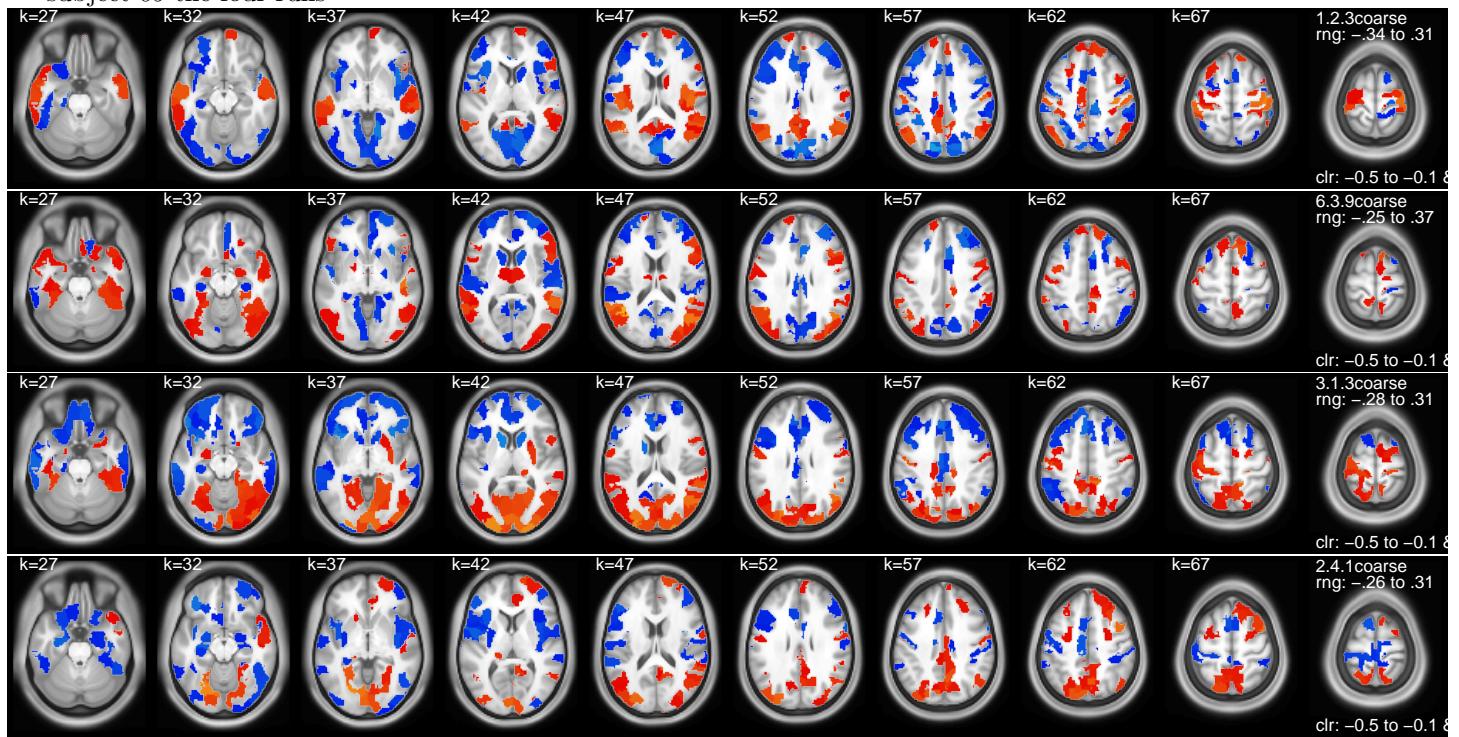
subject 07 the four runs



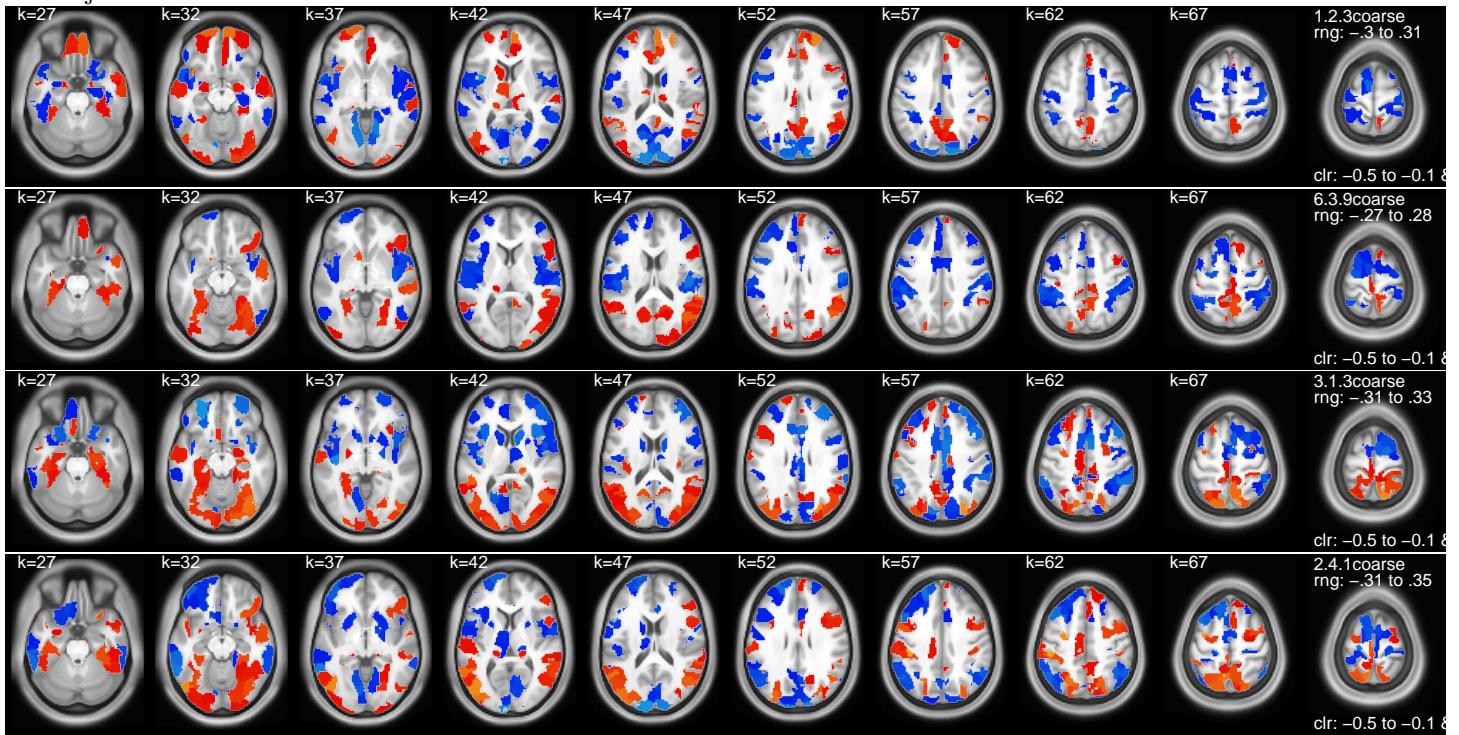
subject 08 the four runs



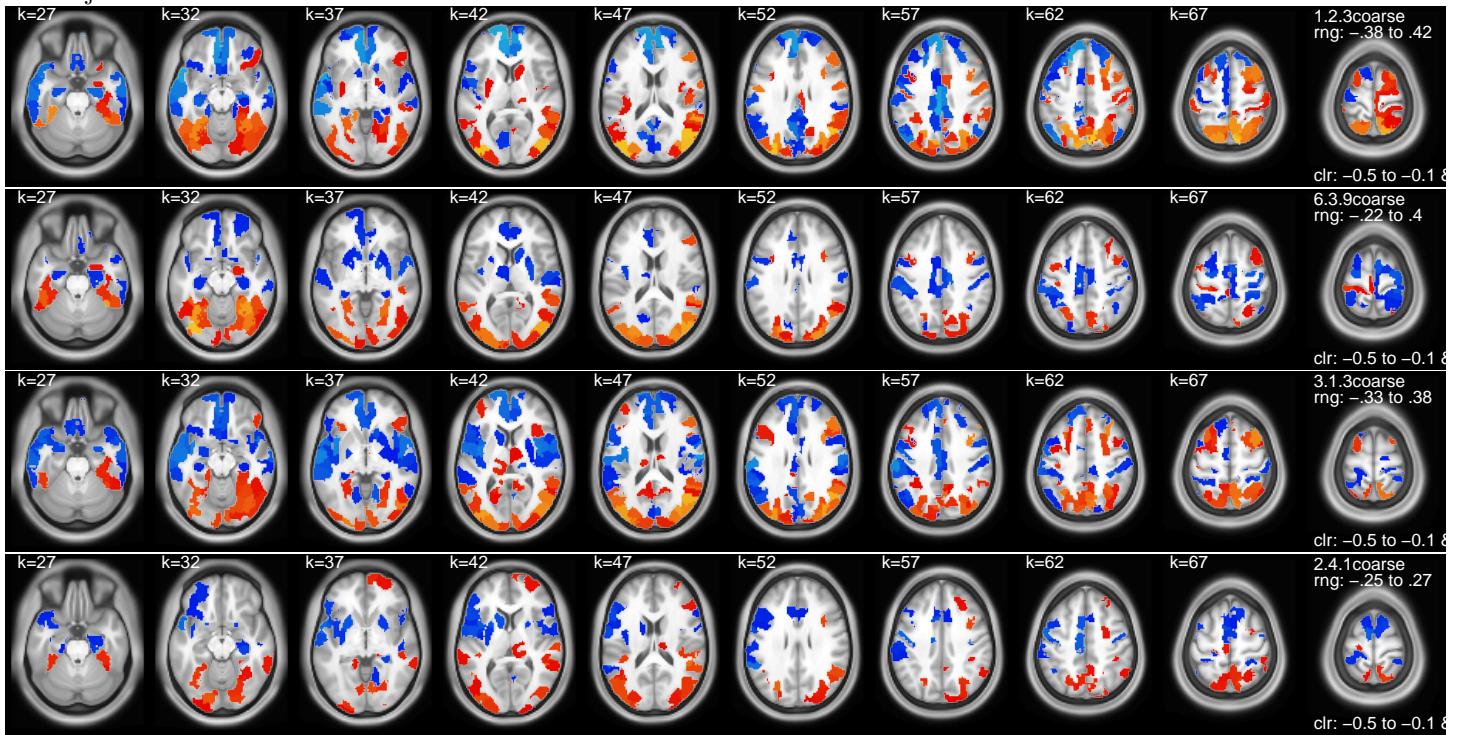
subject 09 the four runs



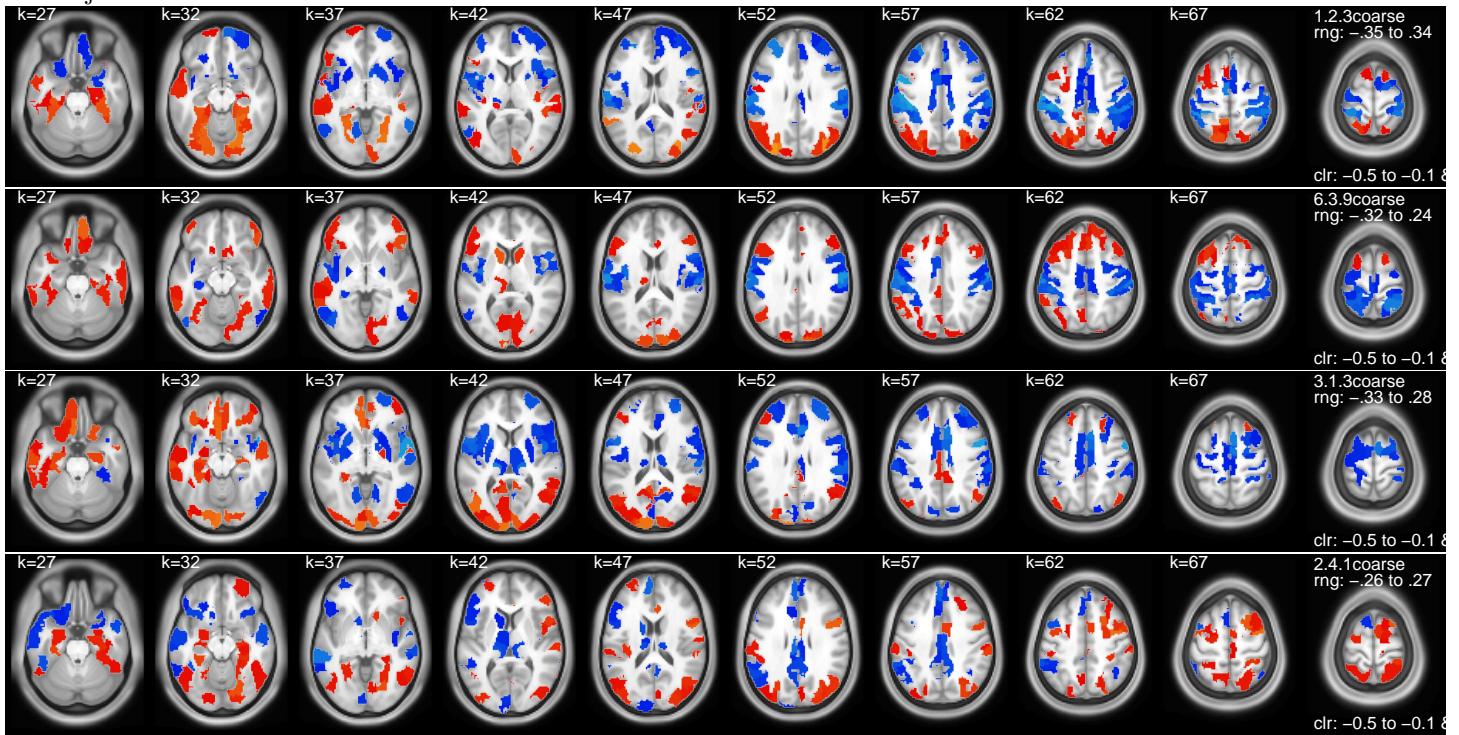
subject 12 the four runs



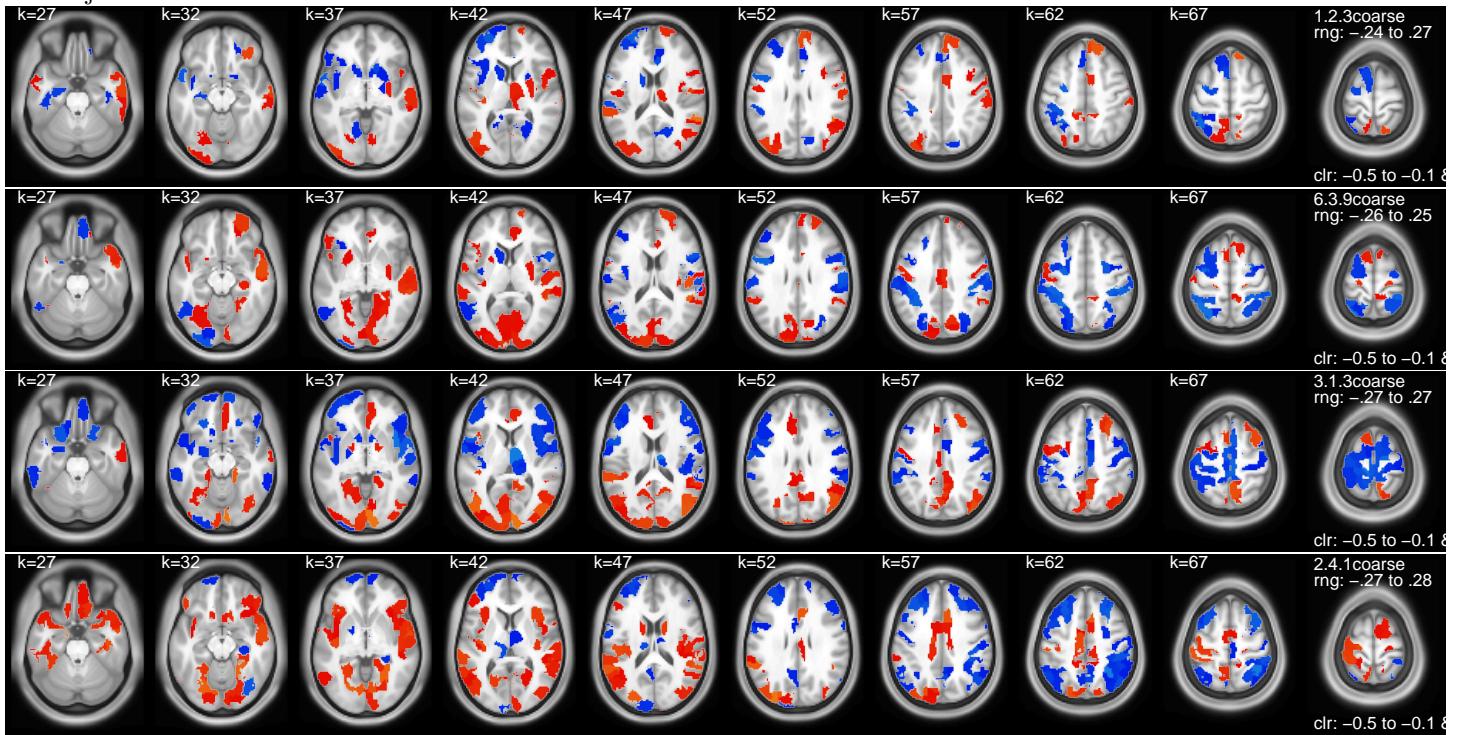
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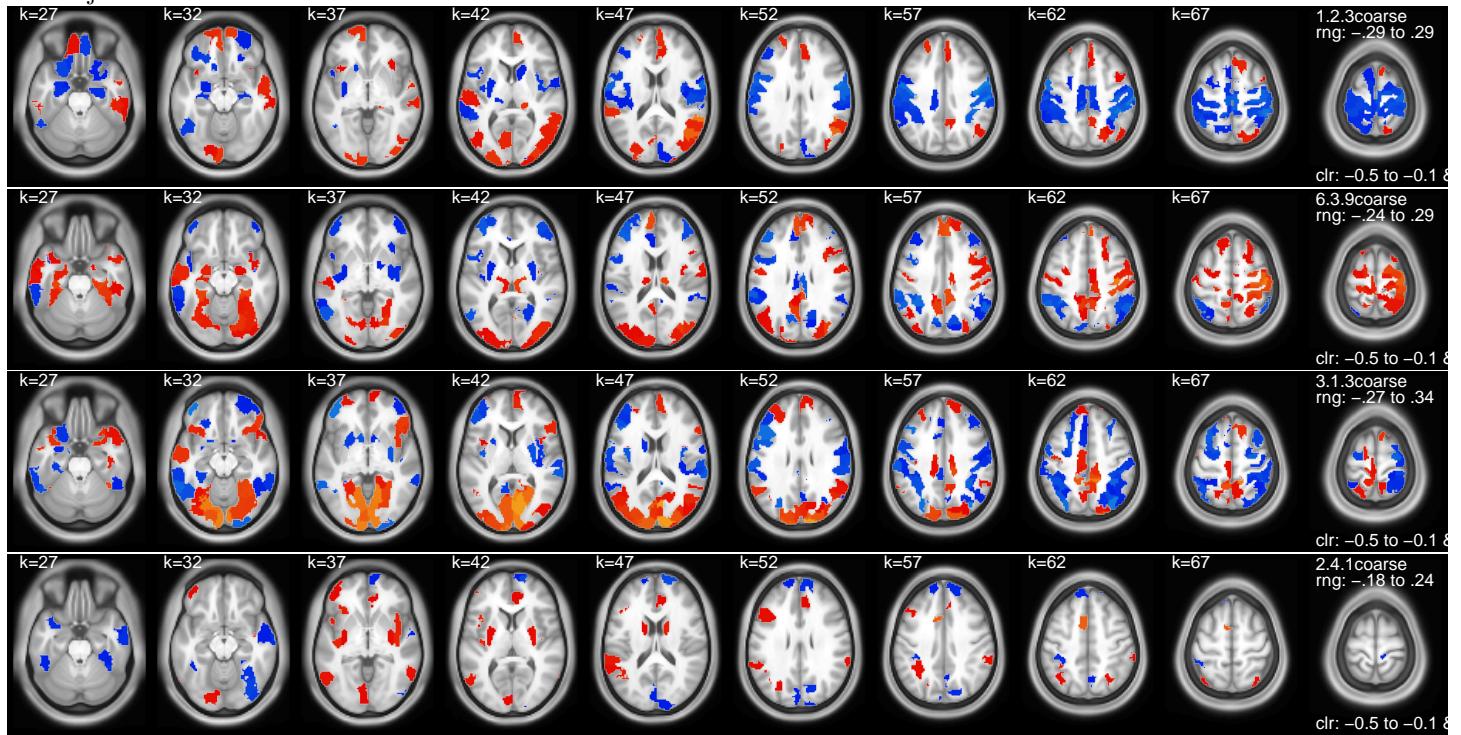
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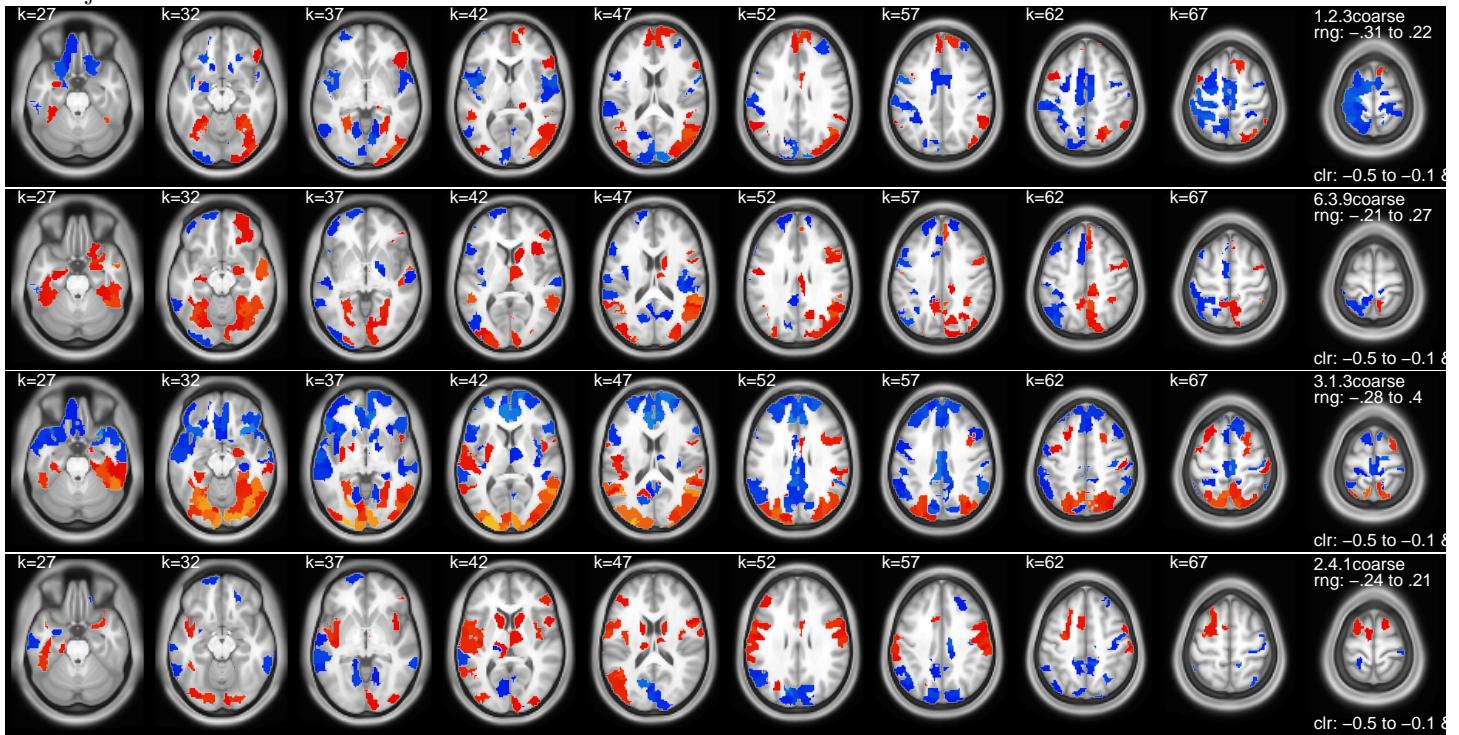
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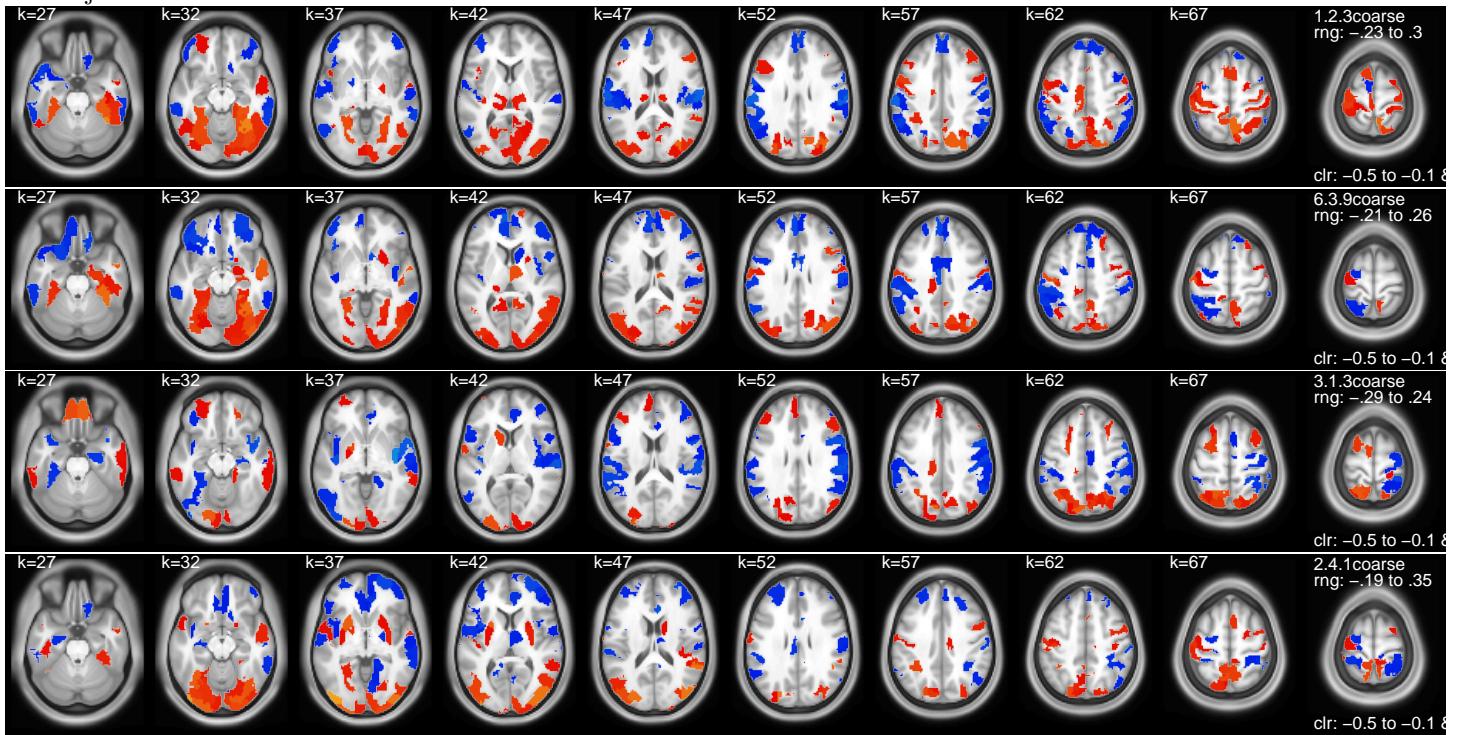
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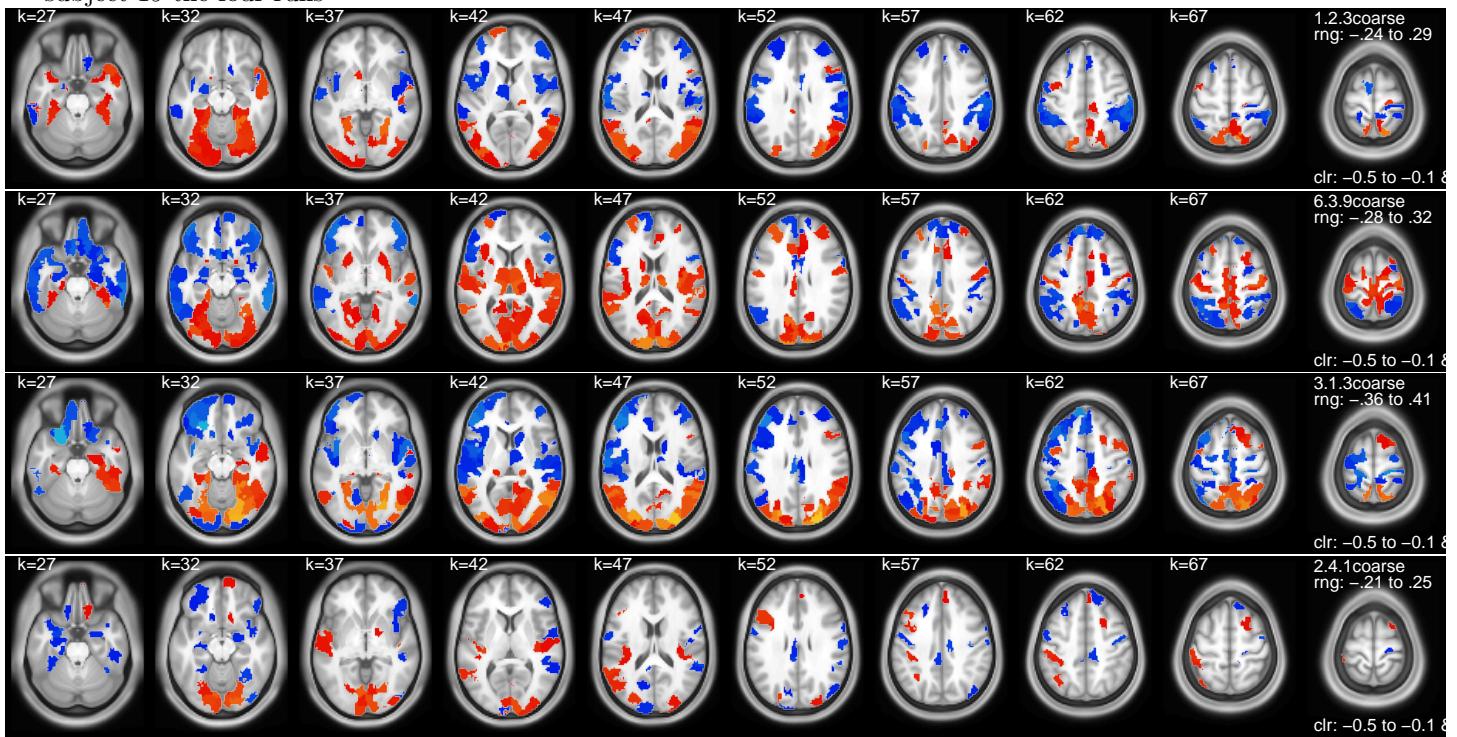
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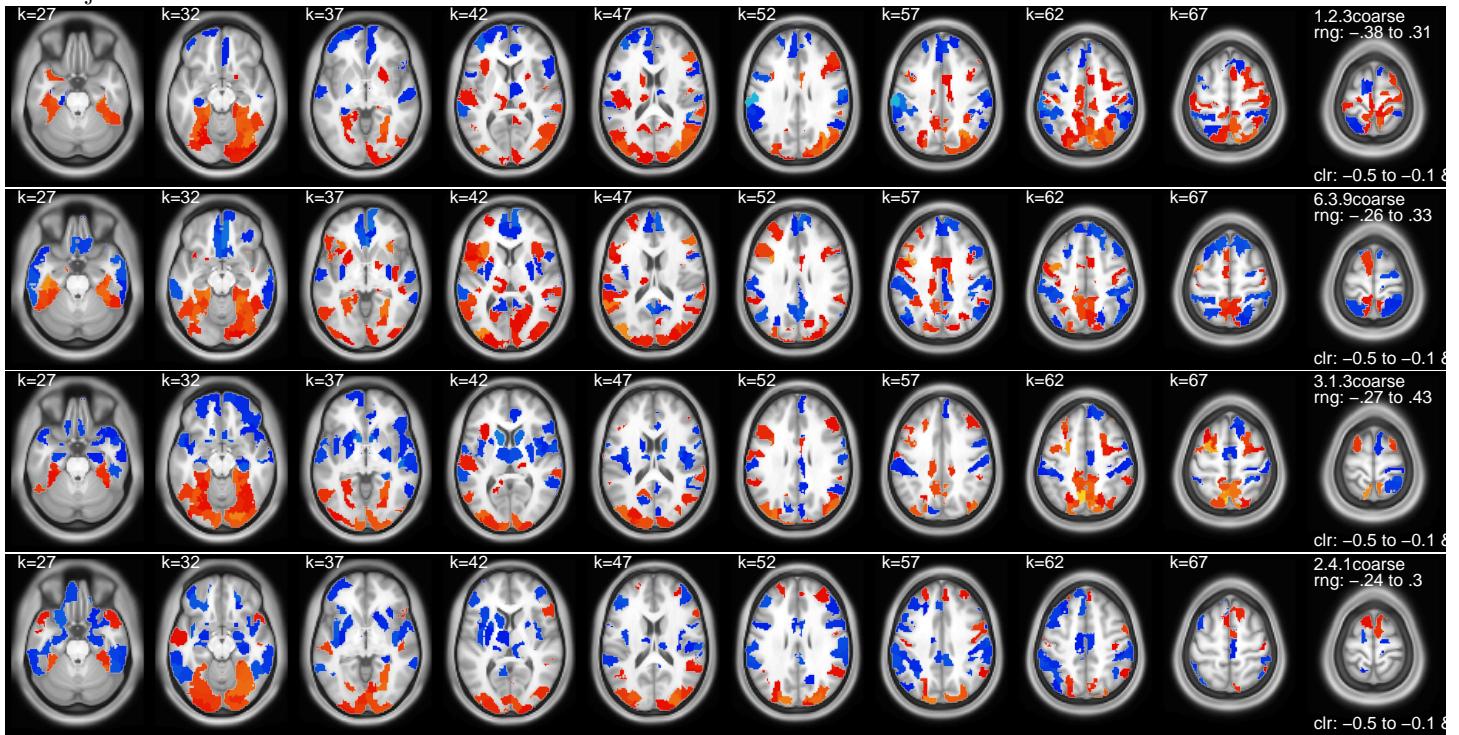
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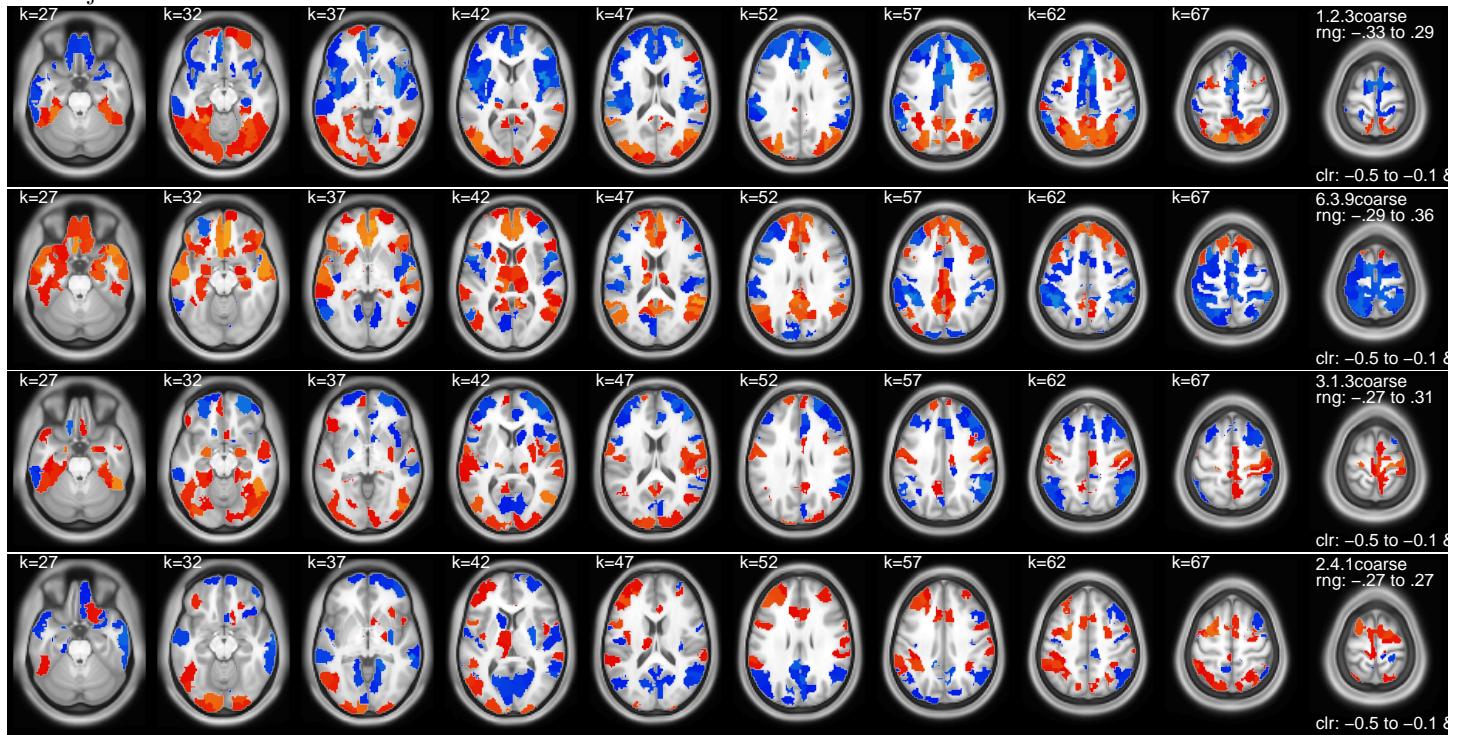
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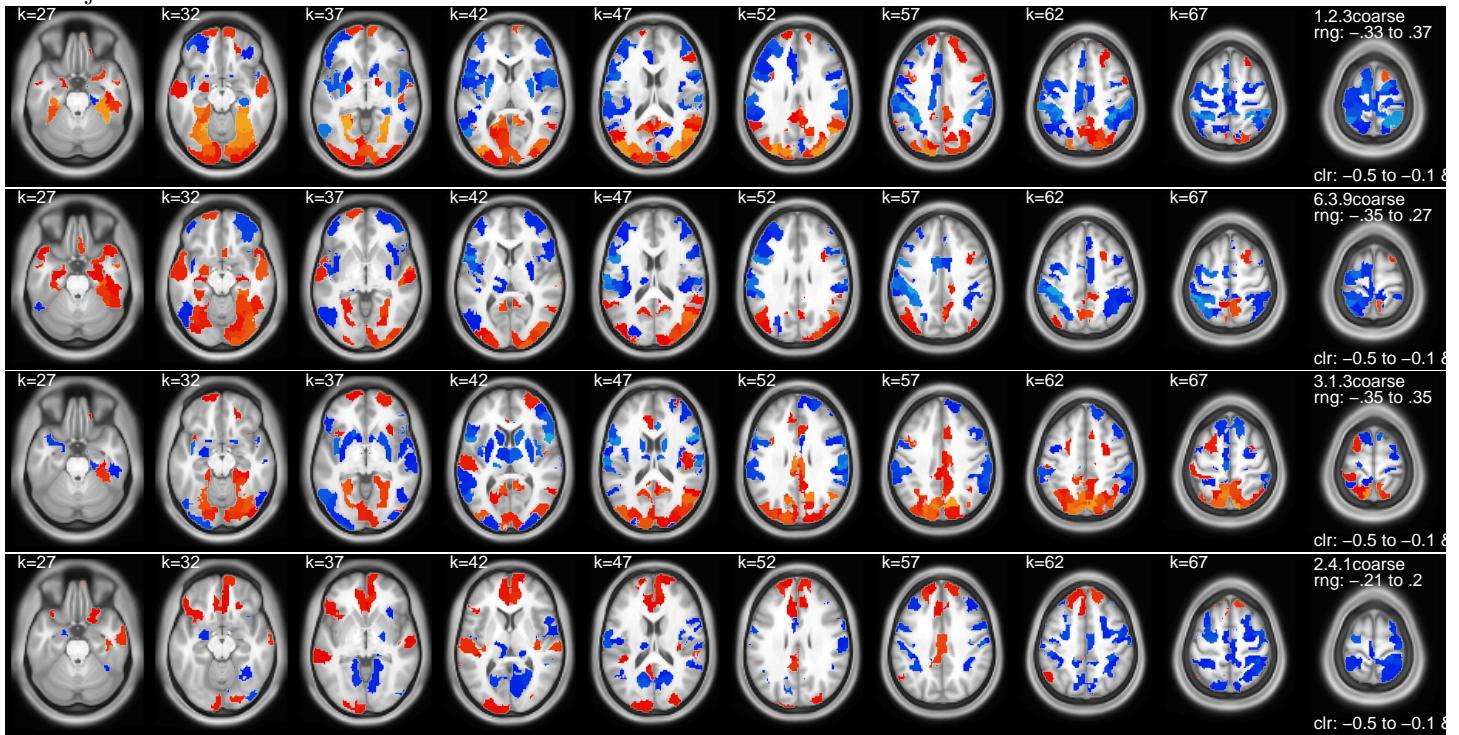
subject 20 the four runs



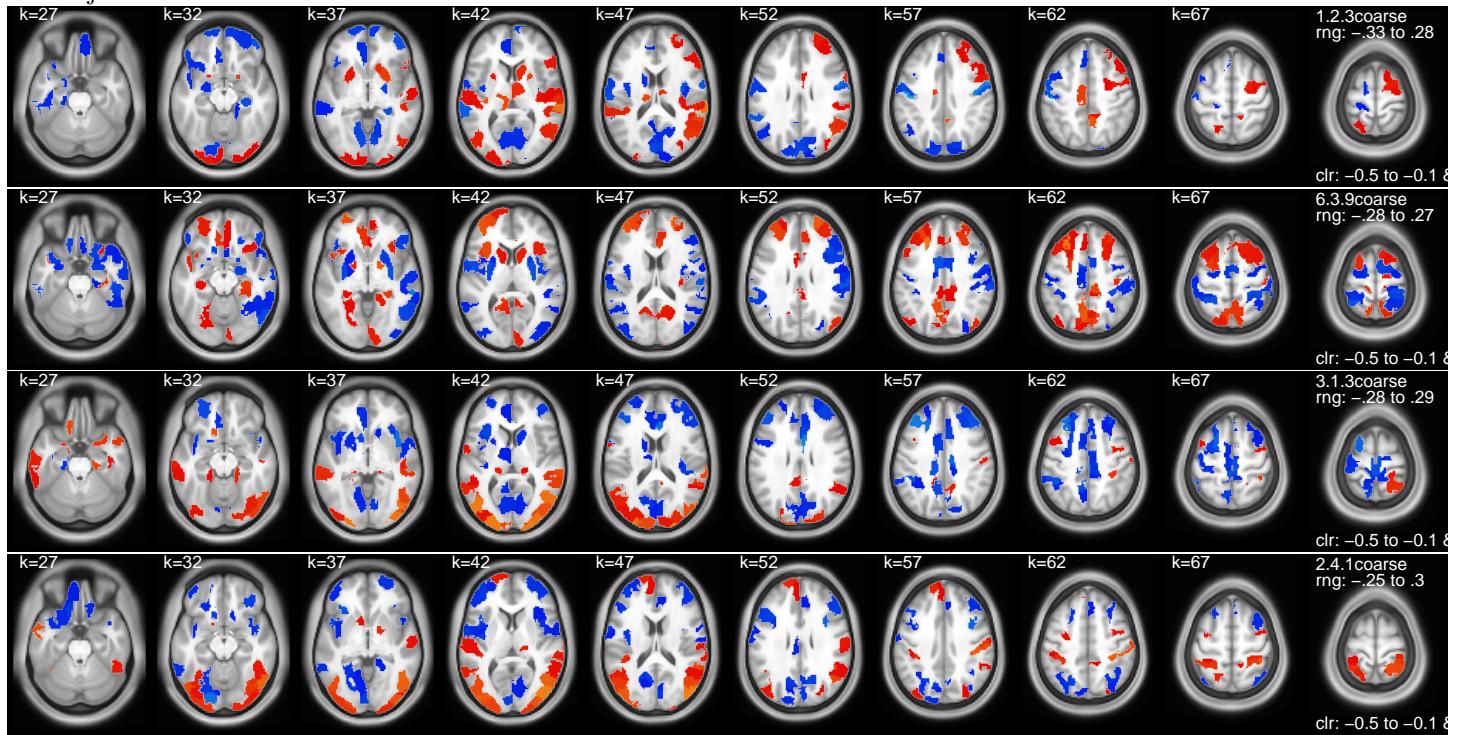
subject 21 the four runs



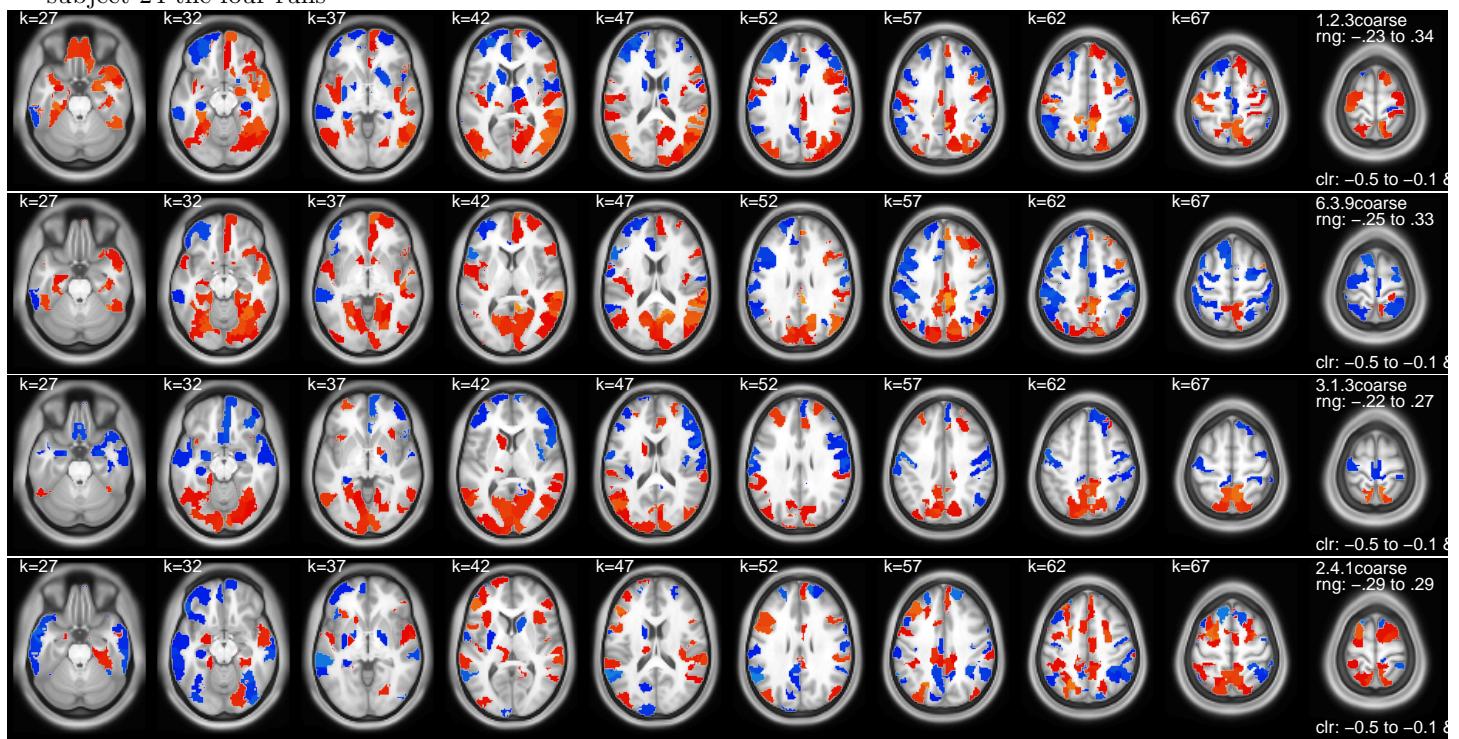
subject 22 the four runs



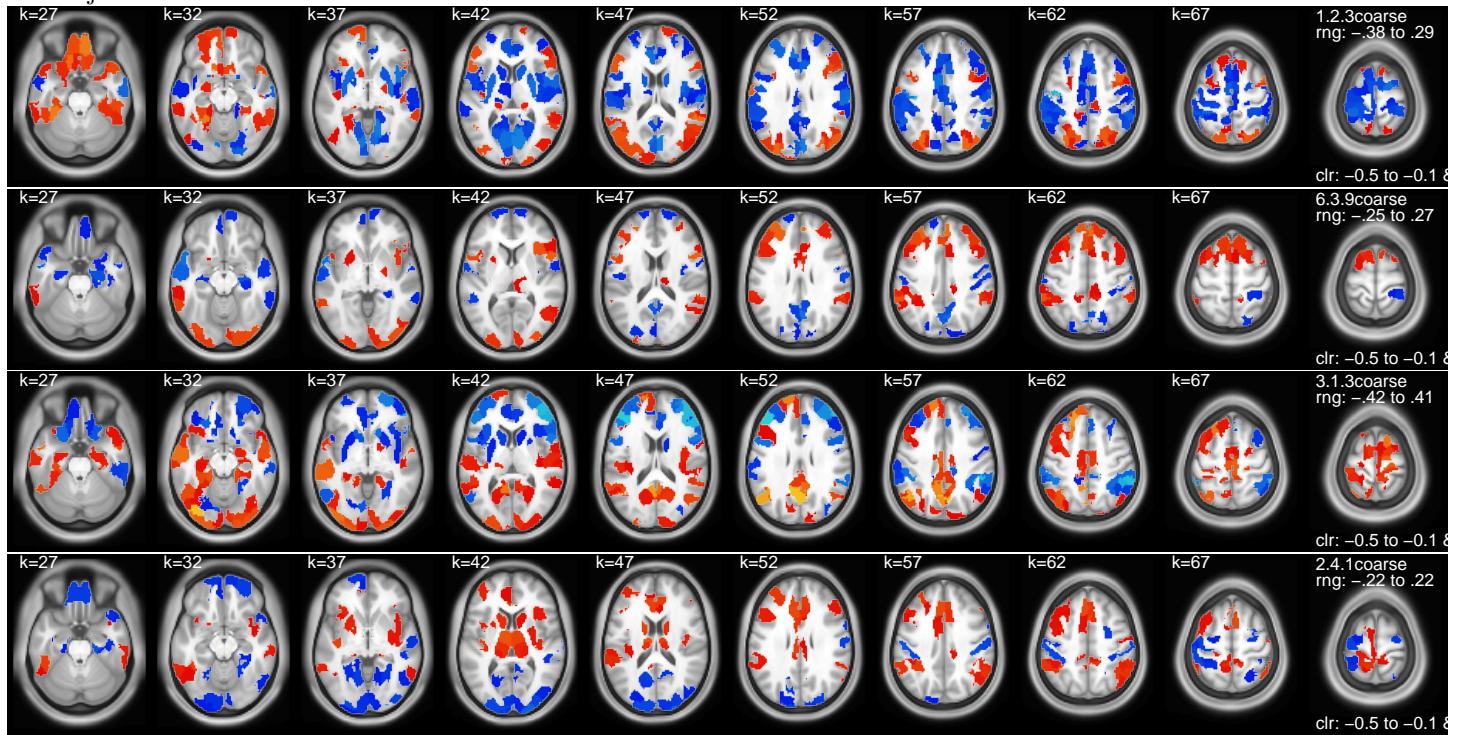
subject 23 the four runs



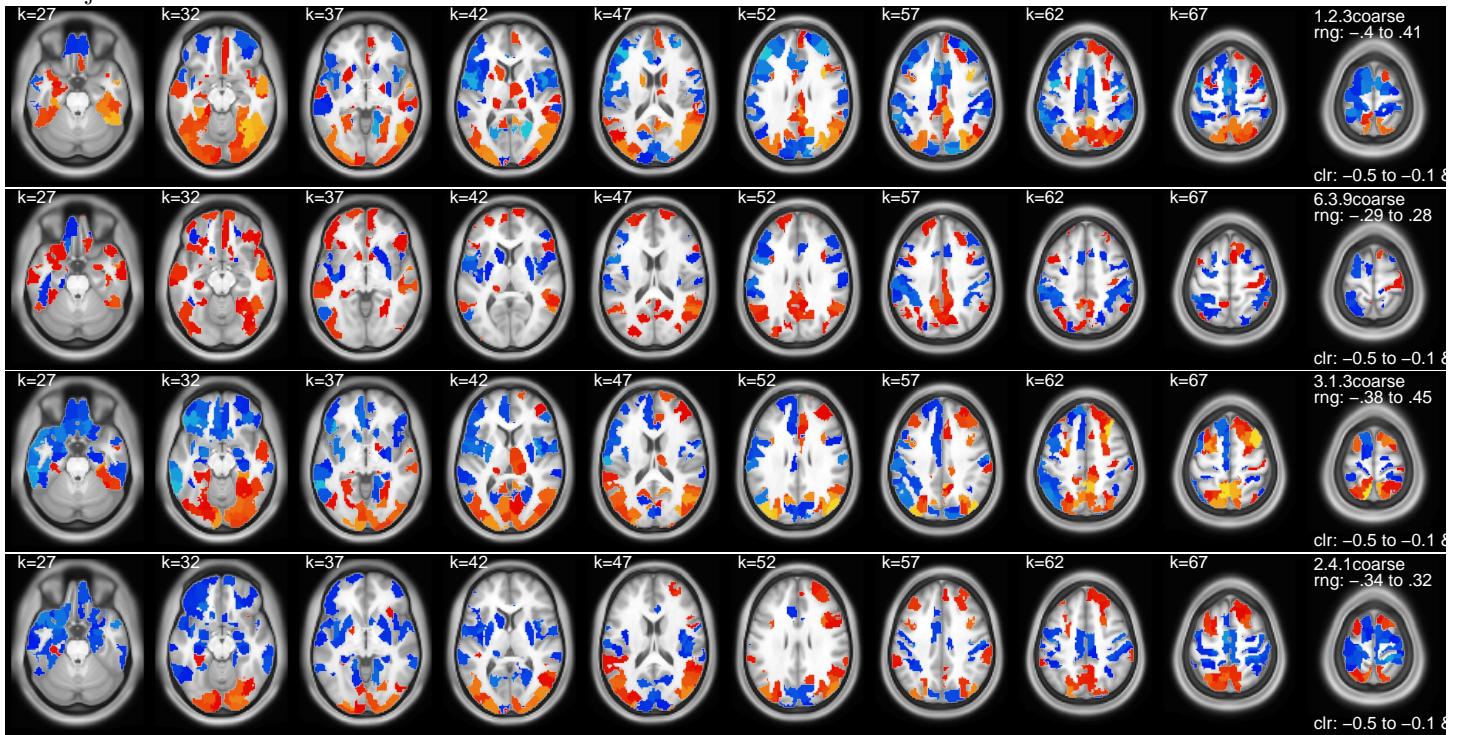
subject 24 the four runs



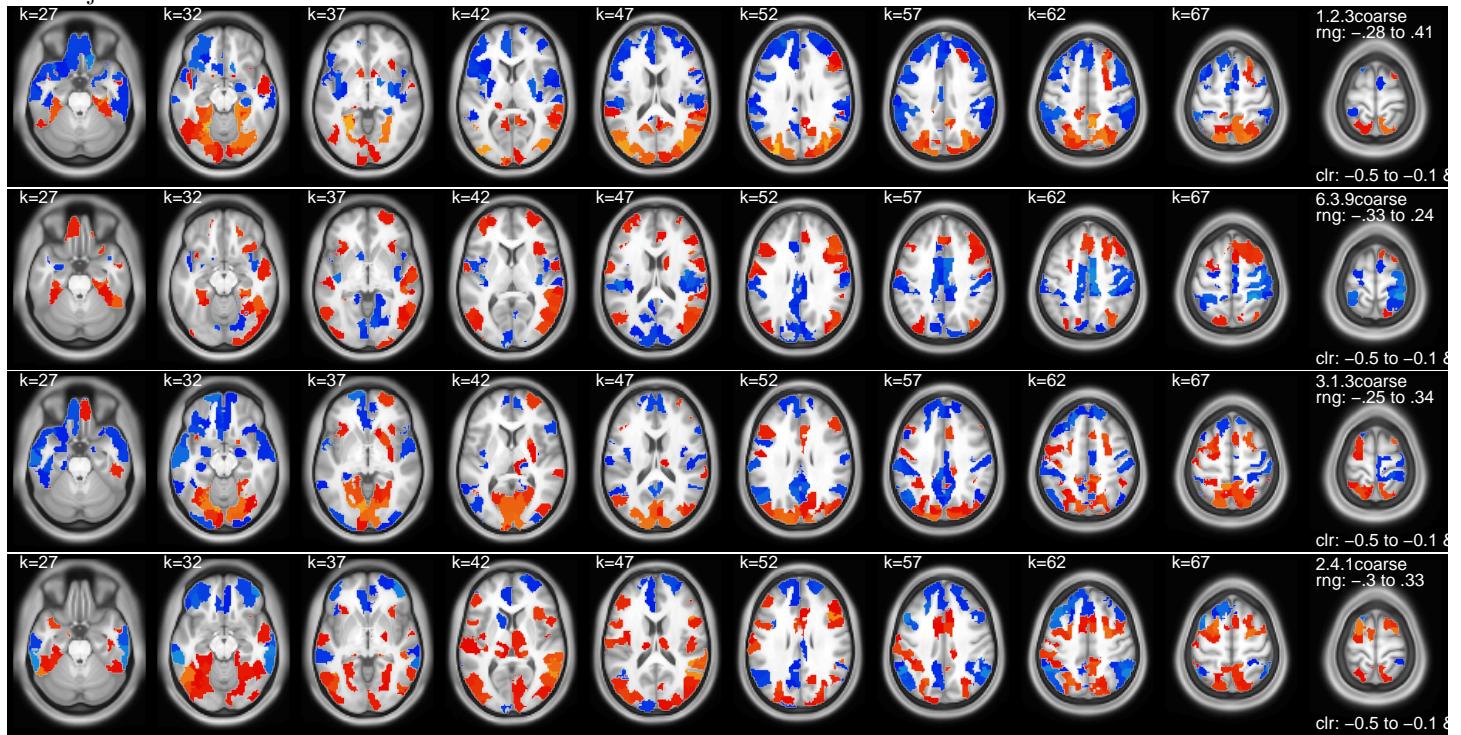
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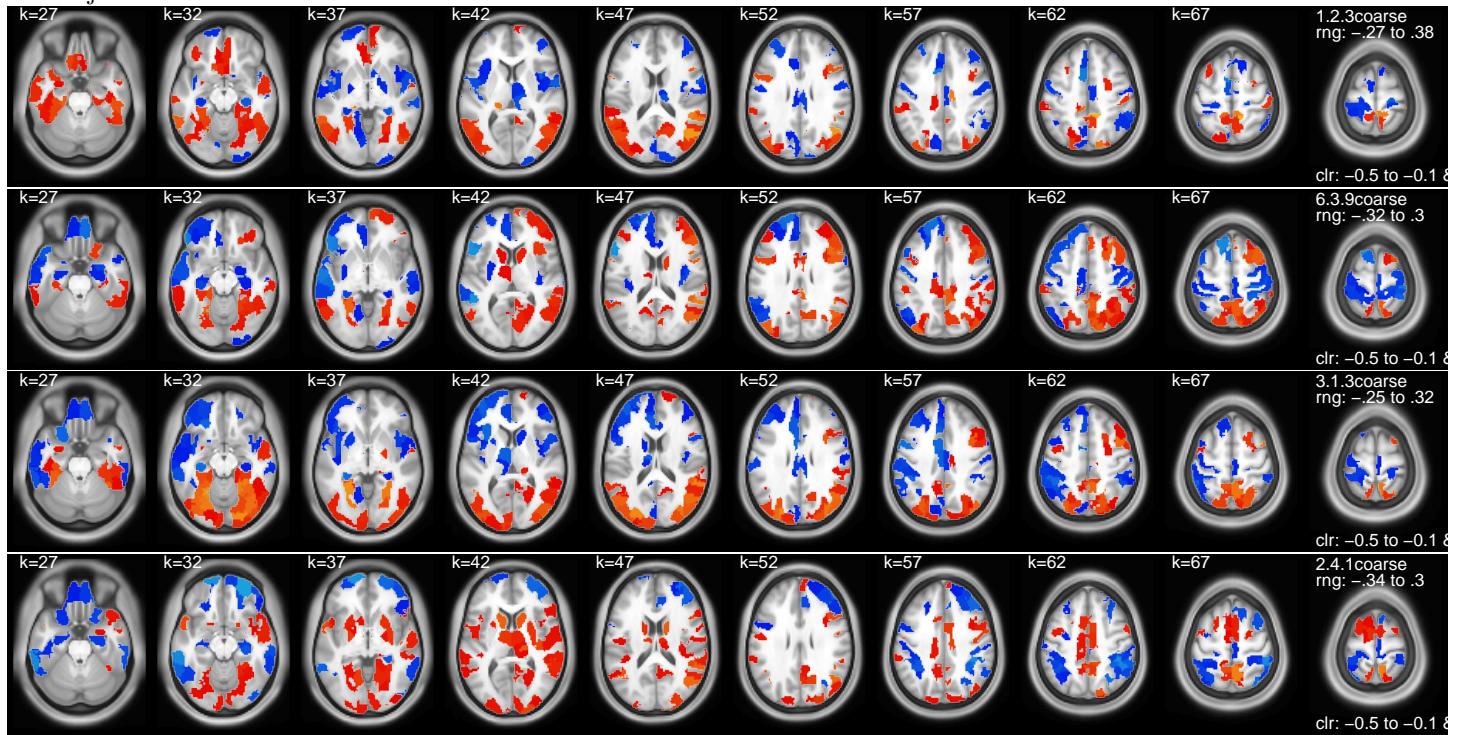
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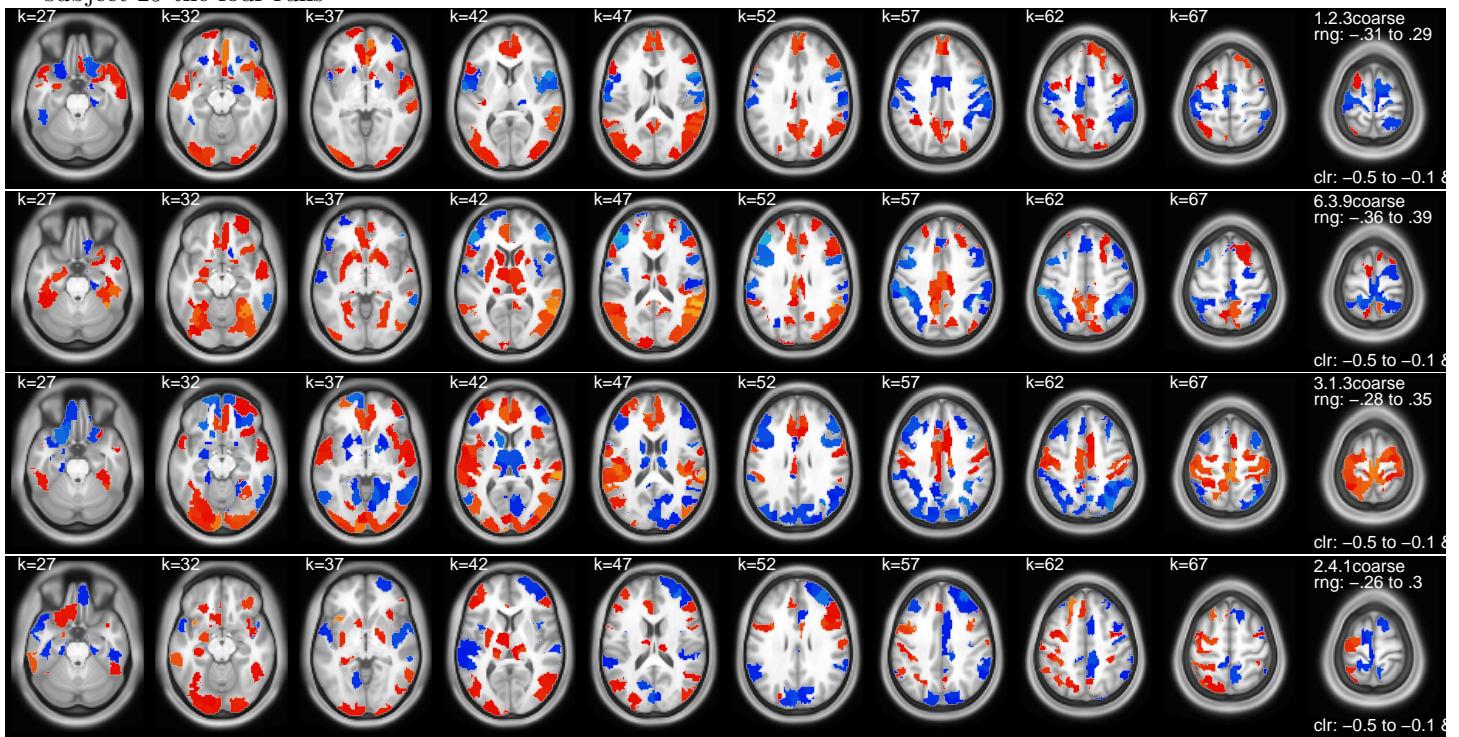
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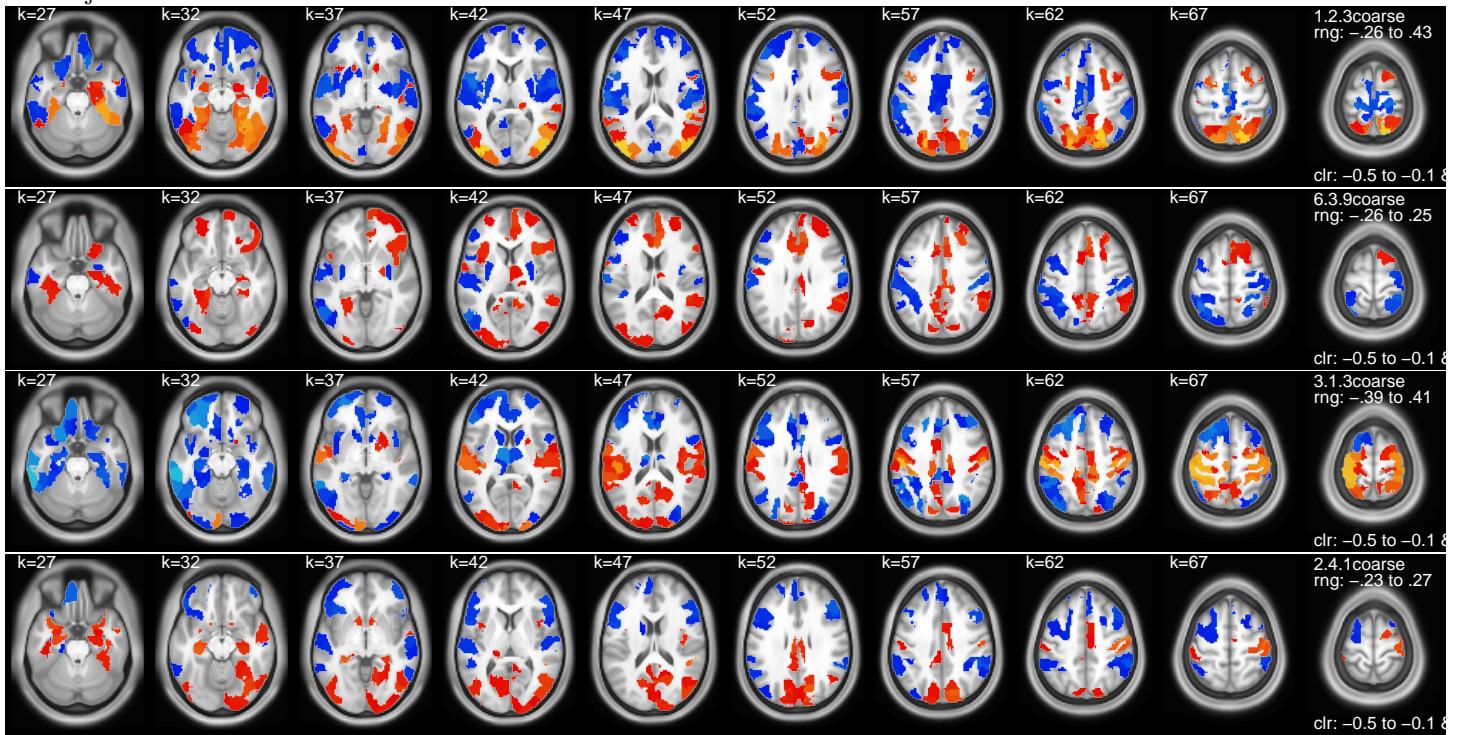
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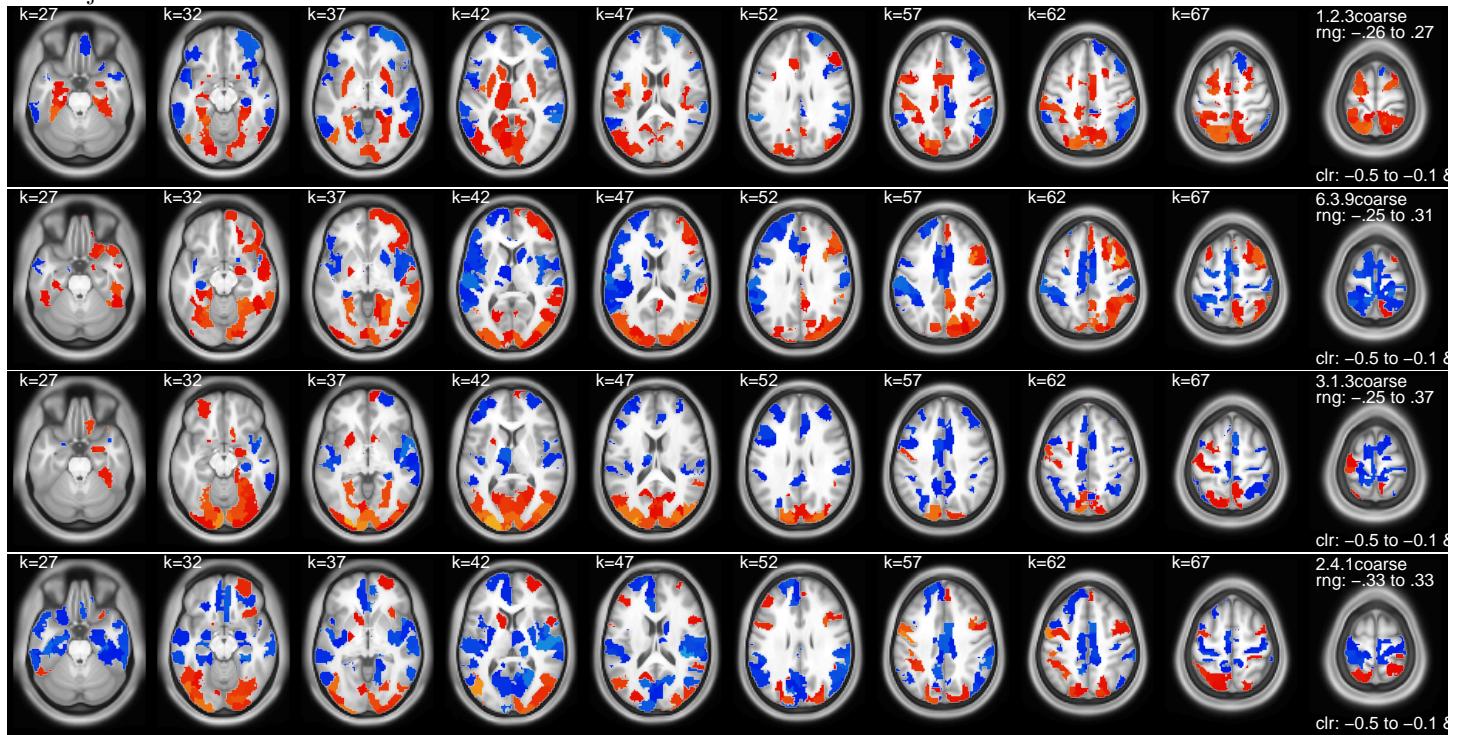
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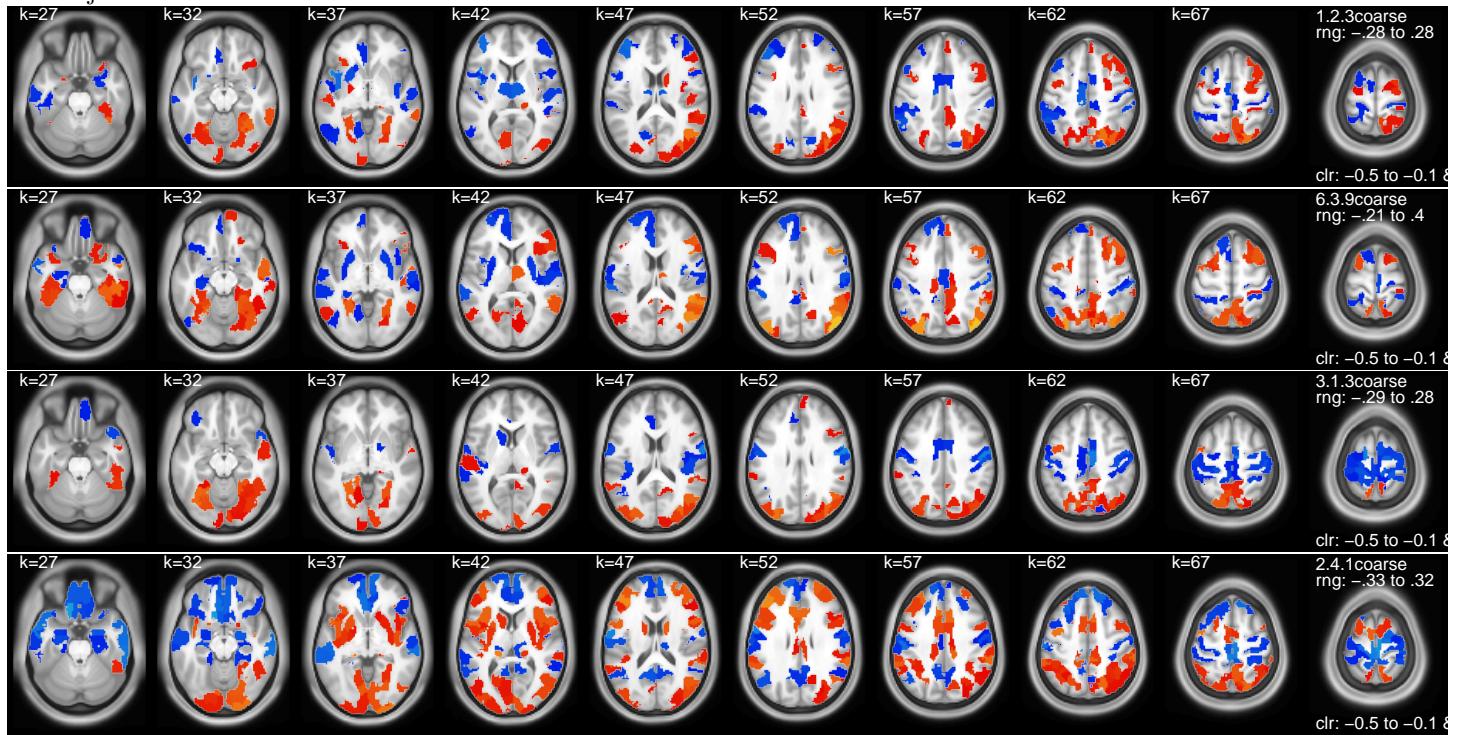
subject 30 the four runs



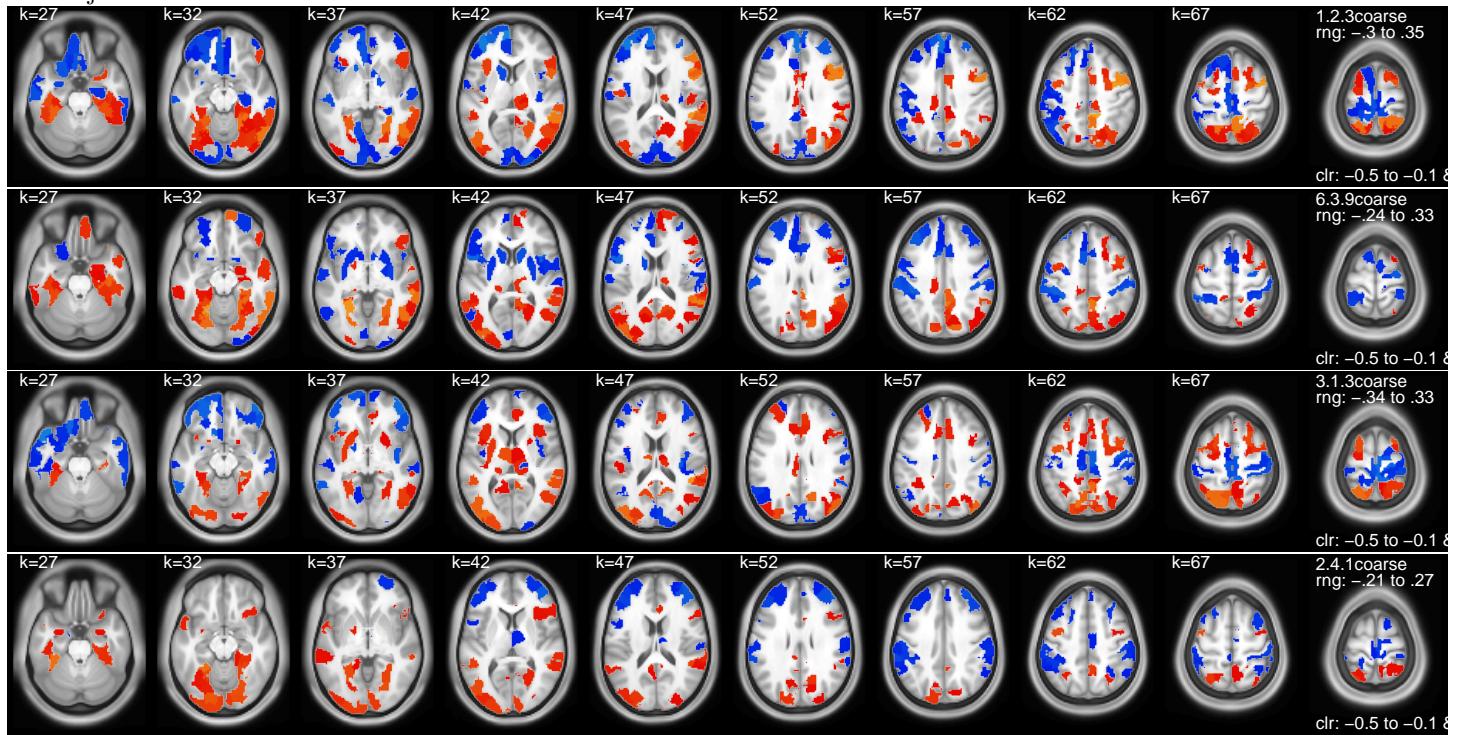
subject 31 the four runs



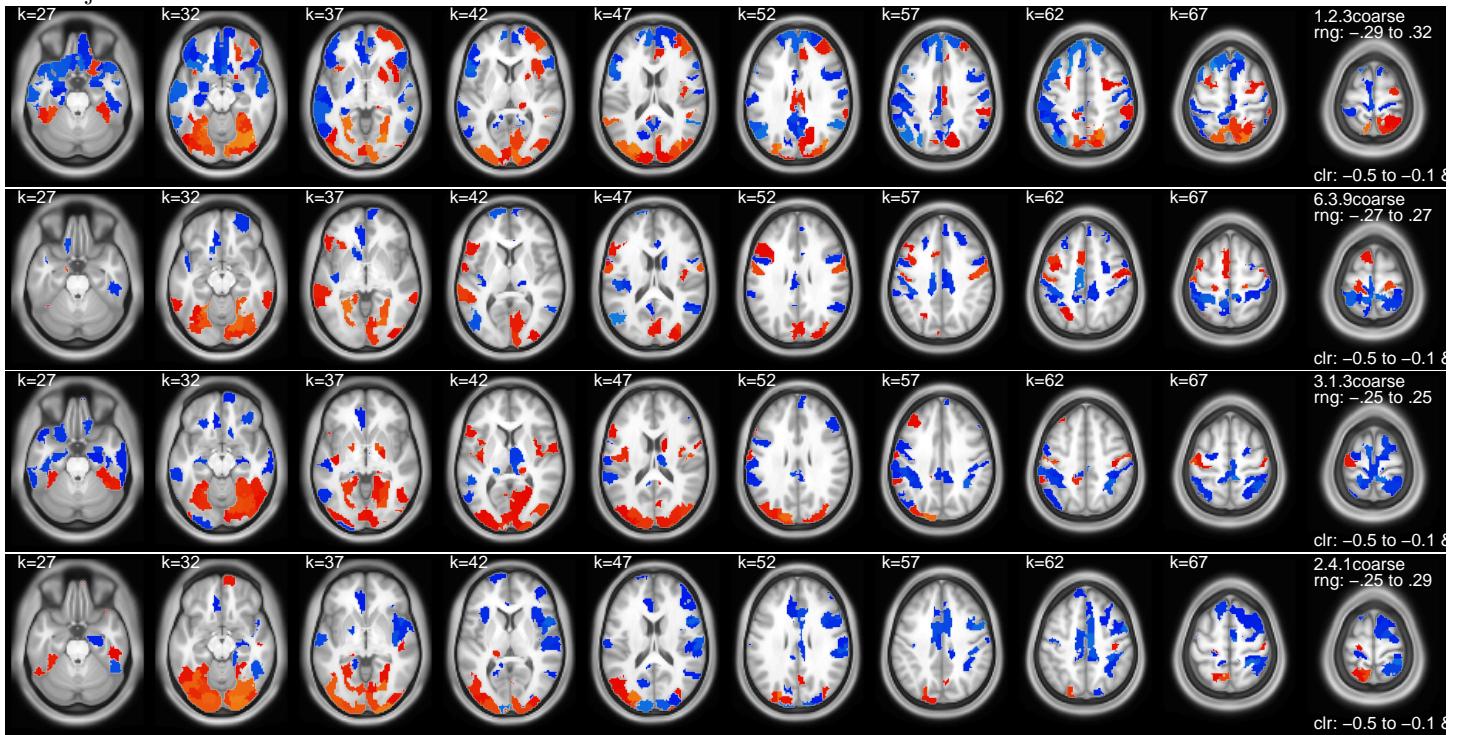
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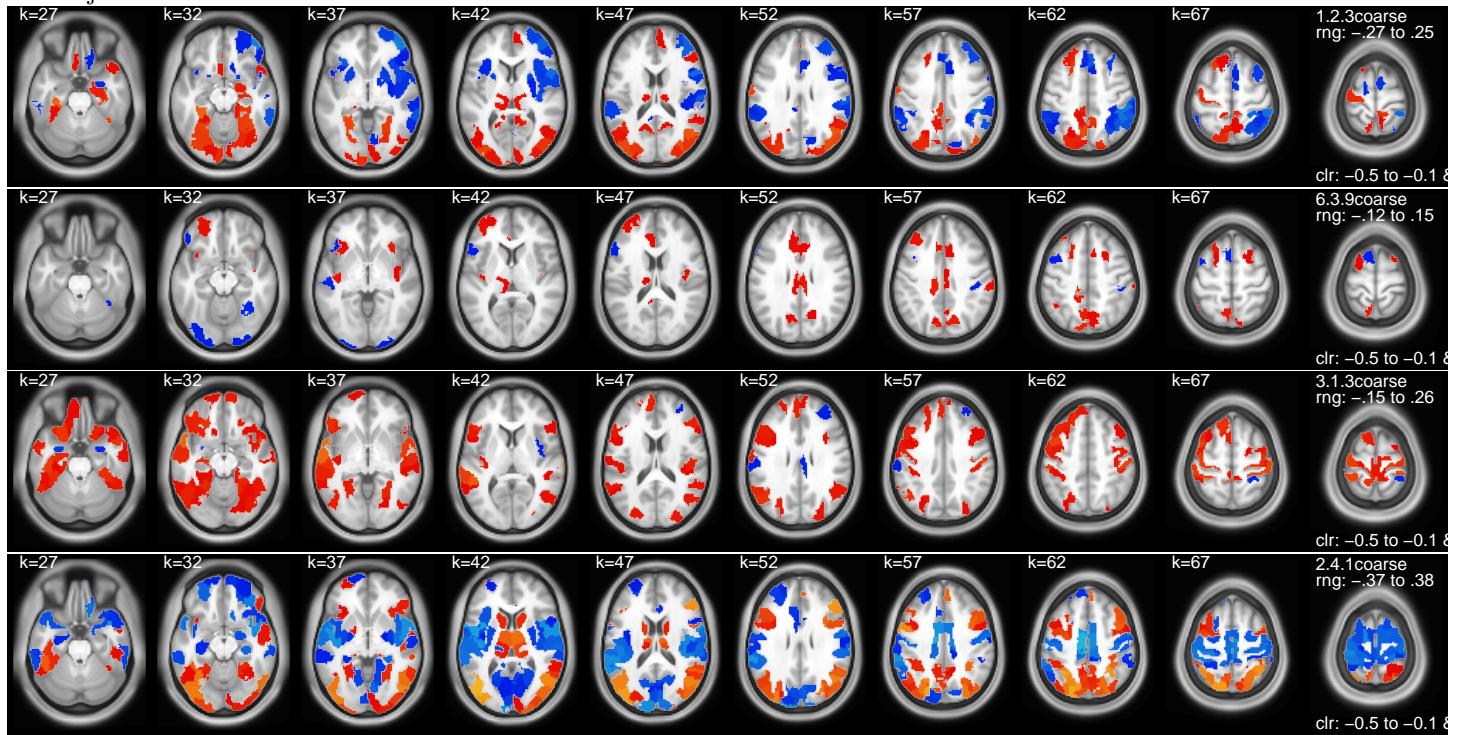
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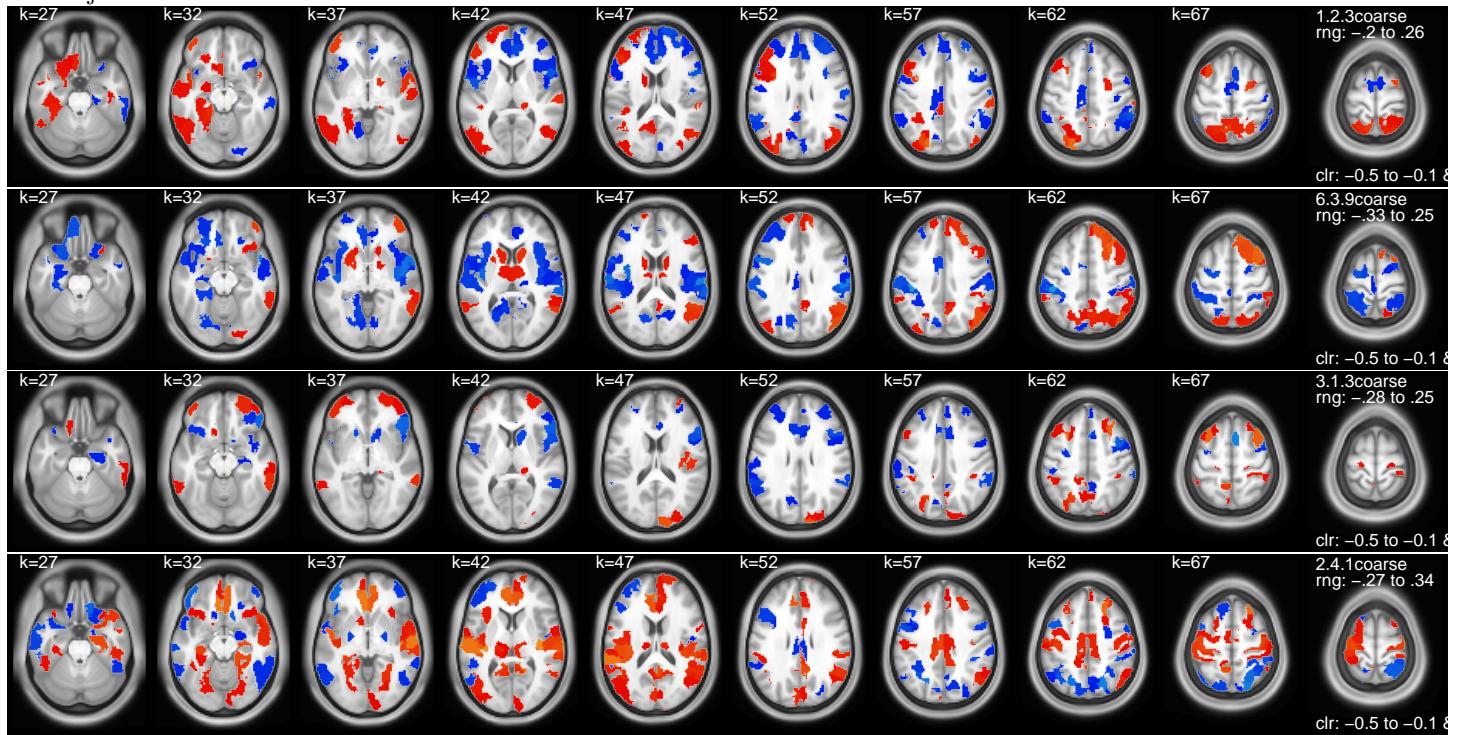
subject 34 the four runs



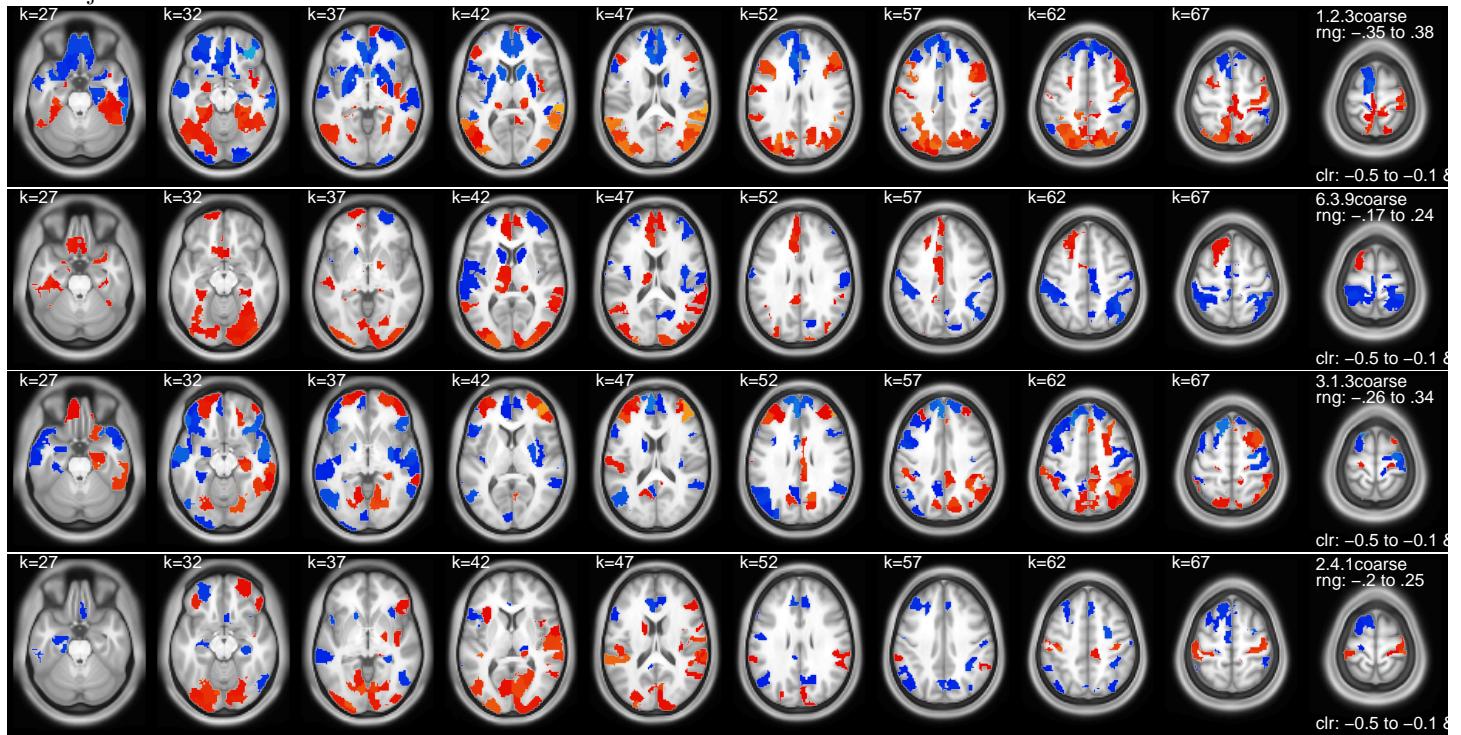
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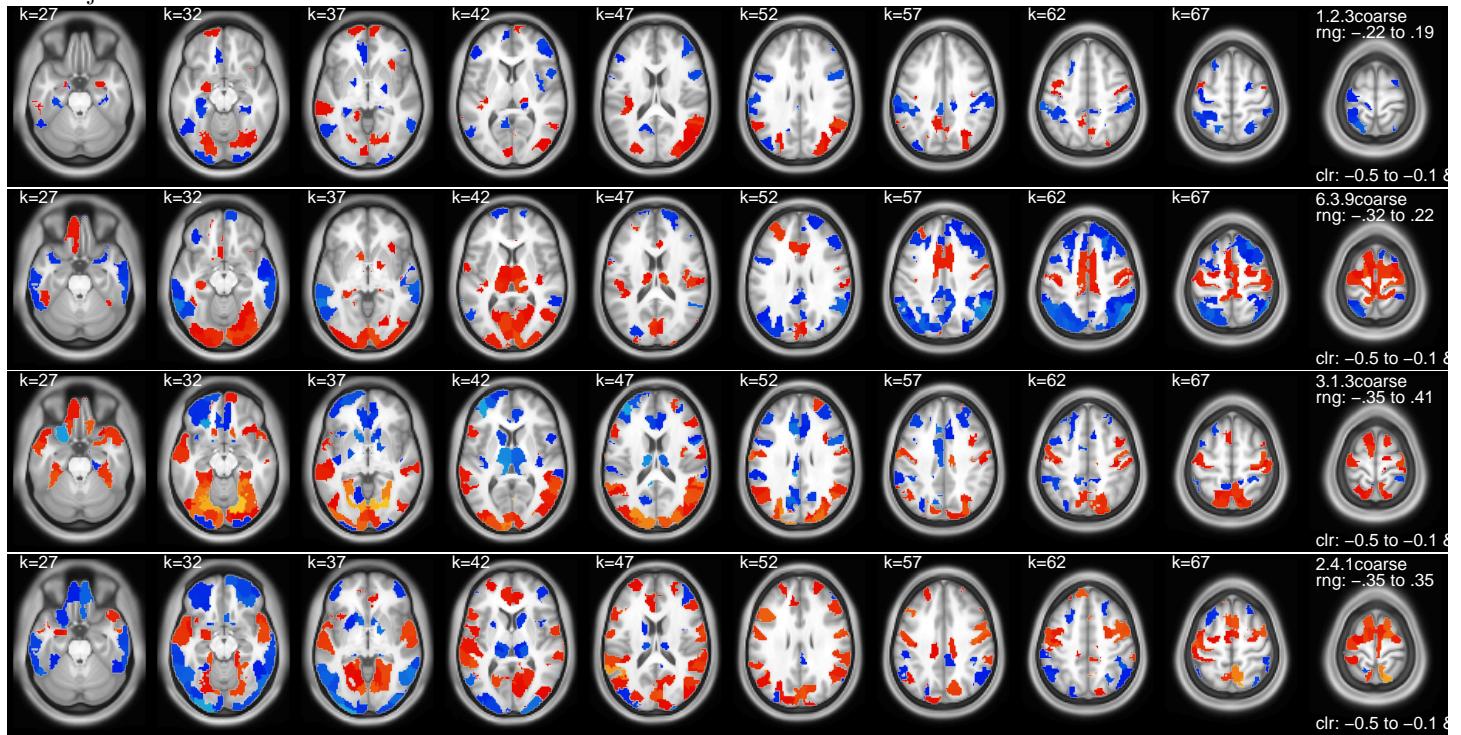
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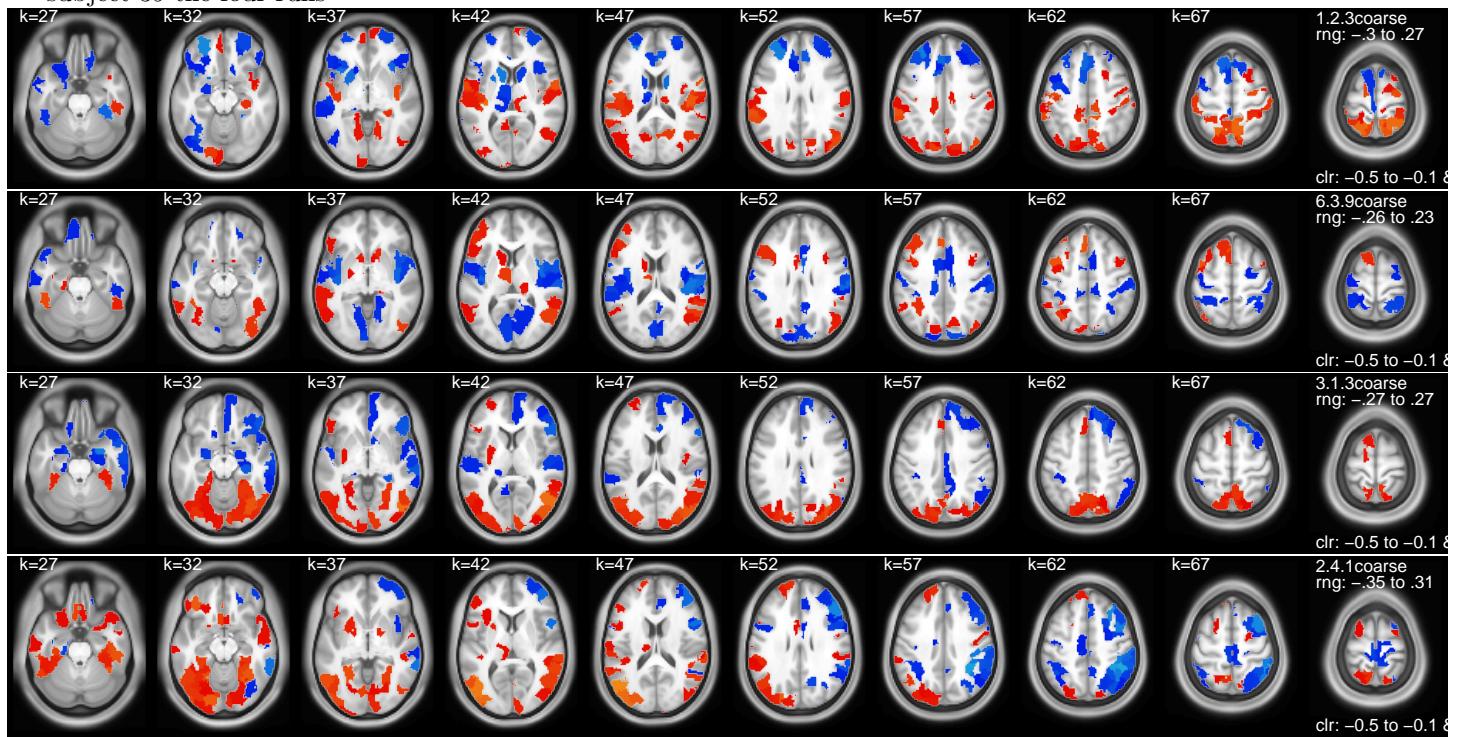
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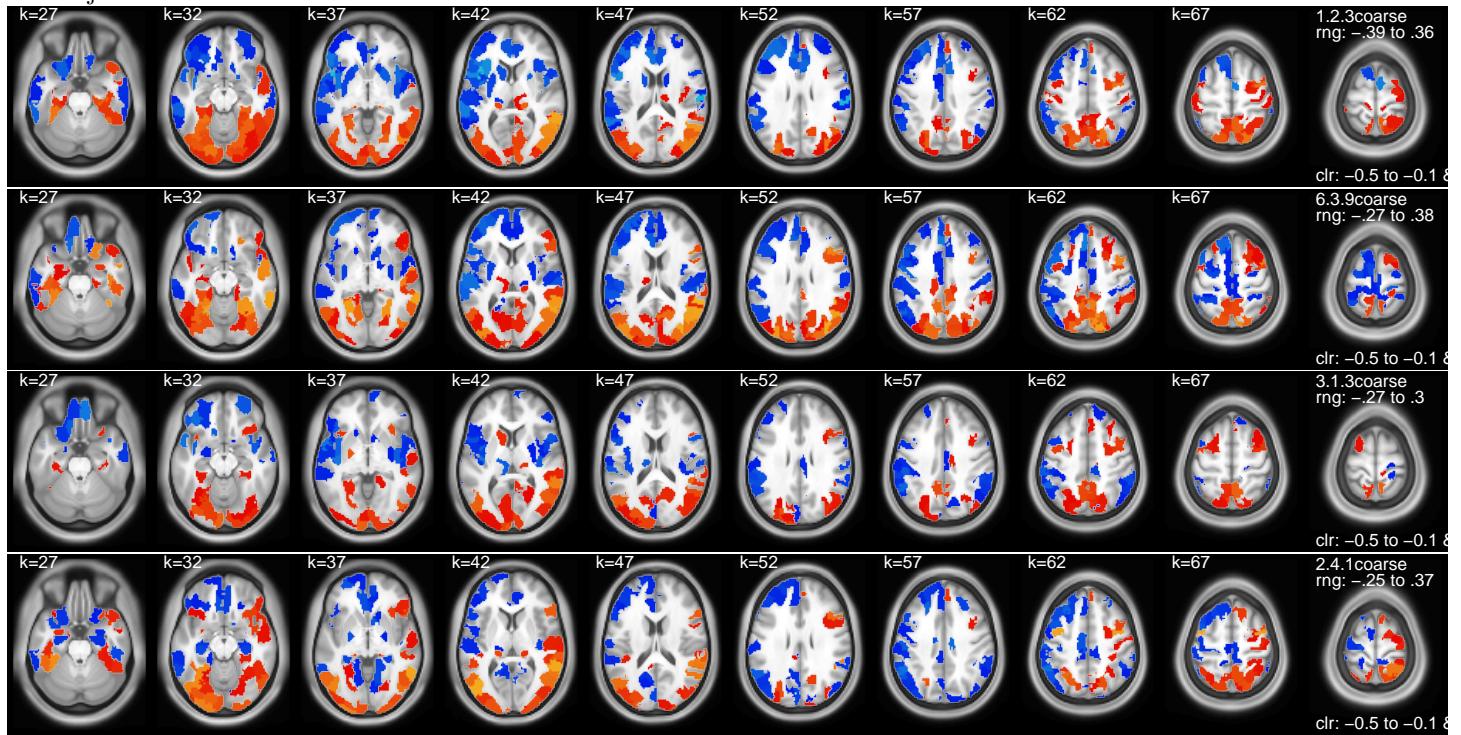
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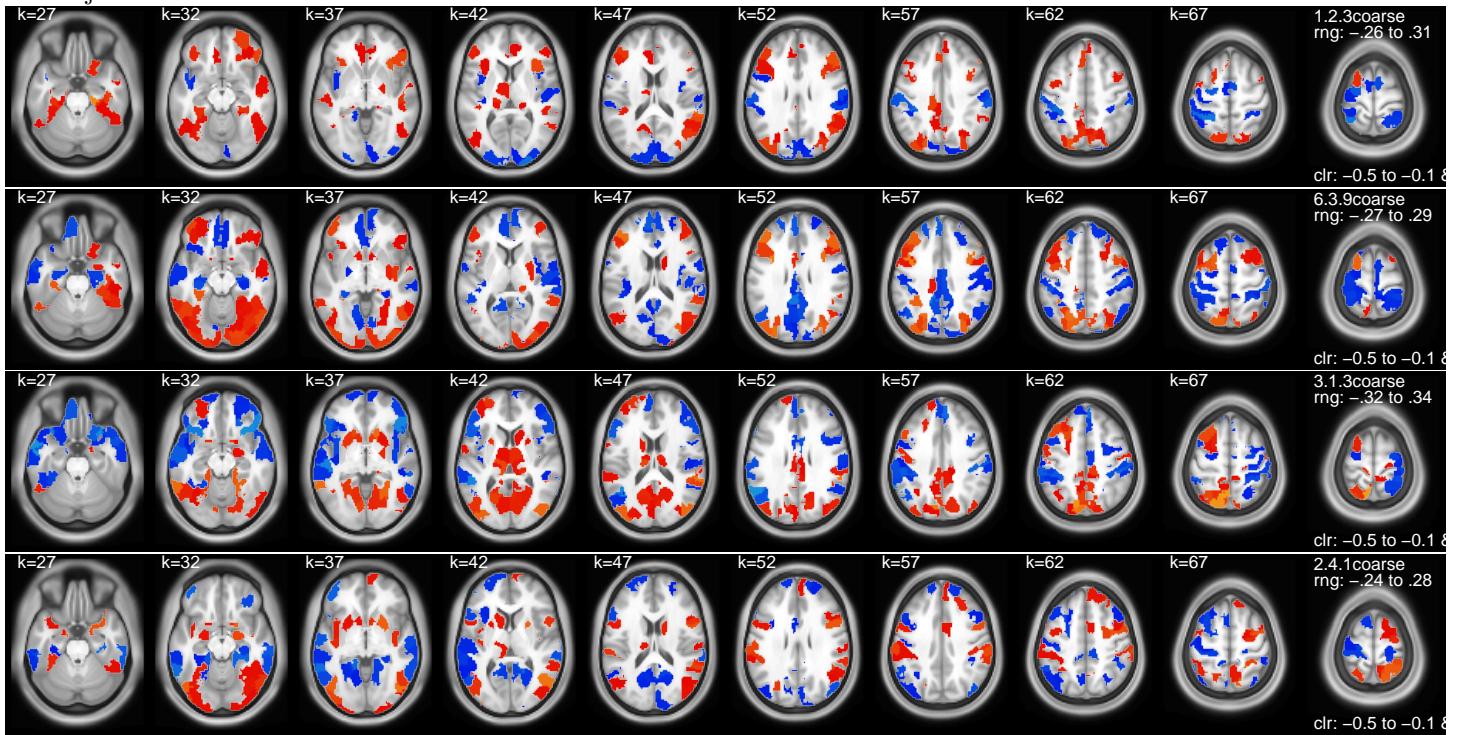
subject 39 the four runs



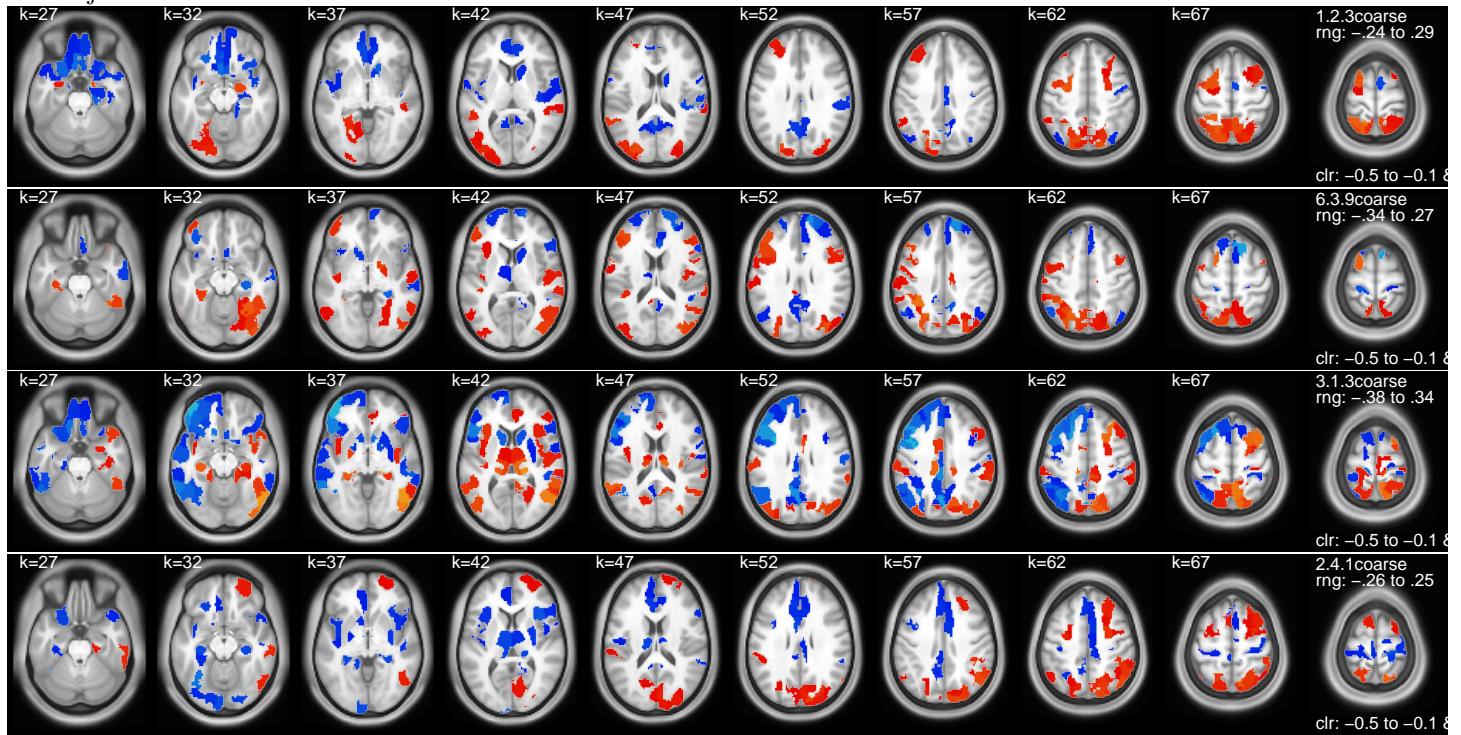
subject 40 the four runs



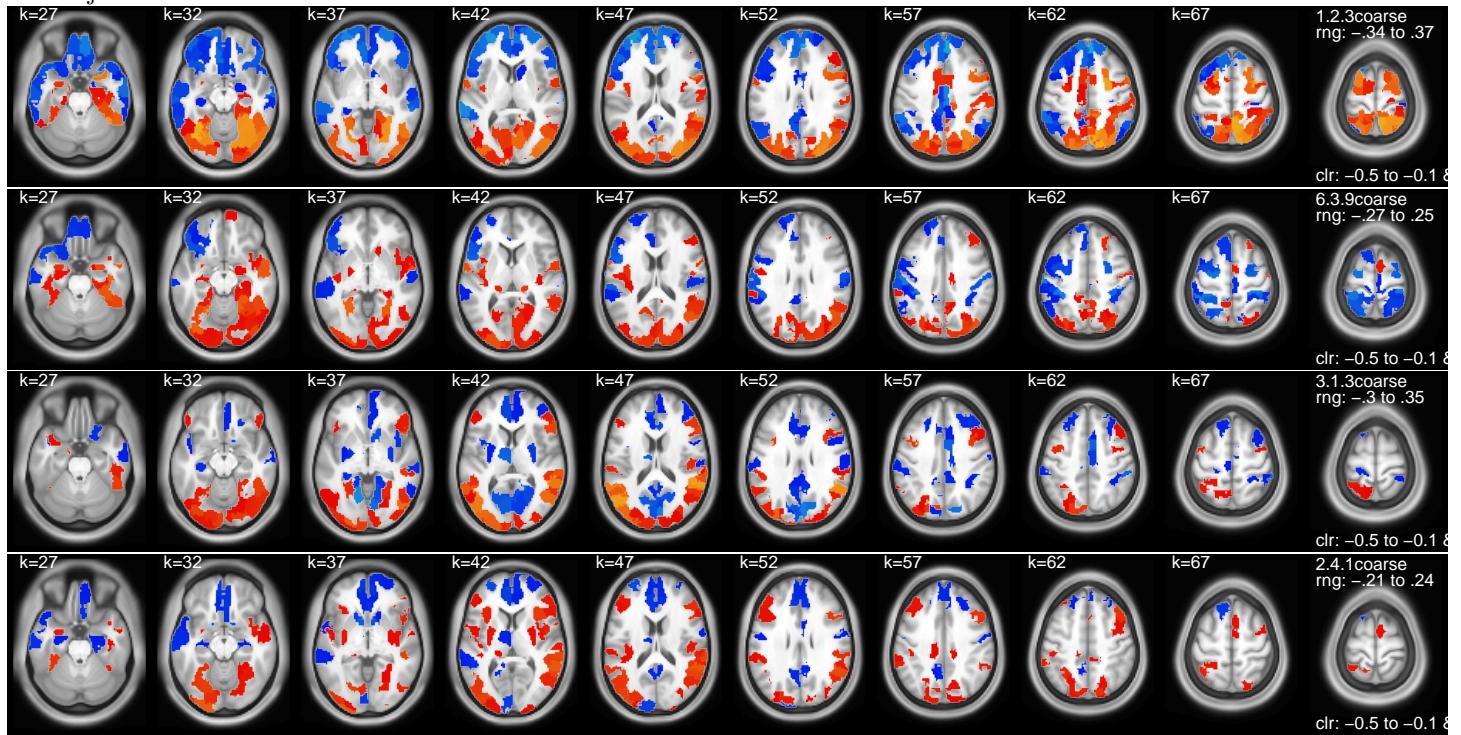
subject 41 the four runs



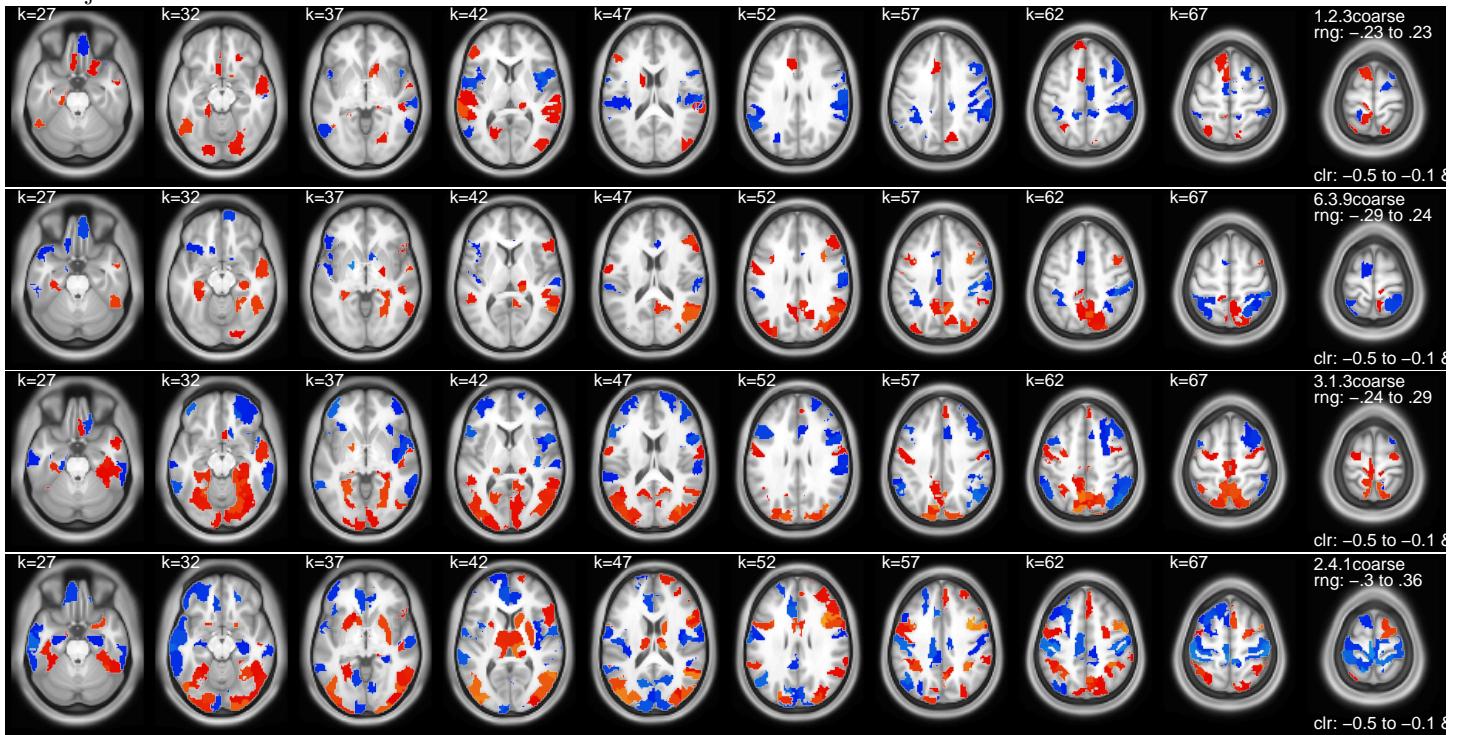
subject 42 the four runs



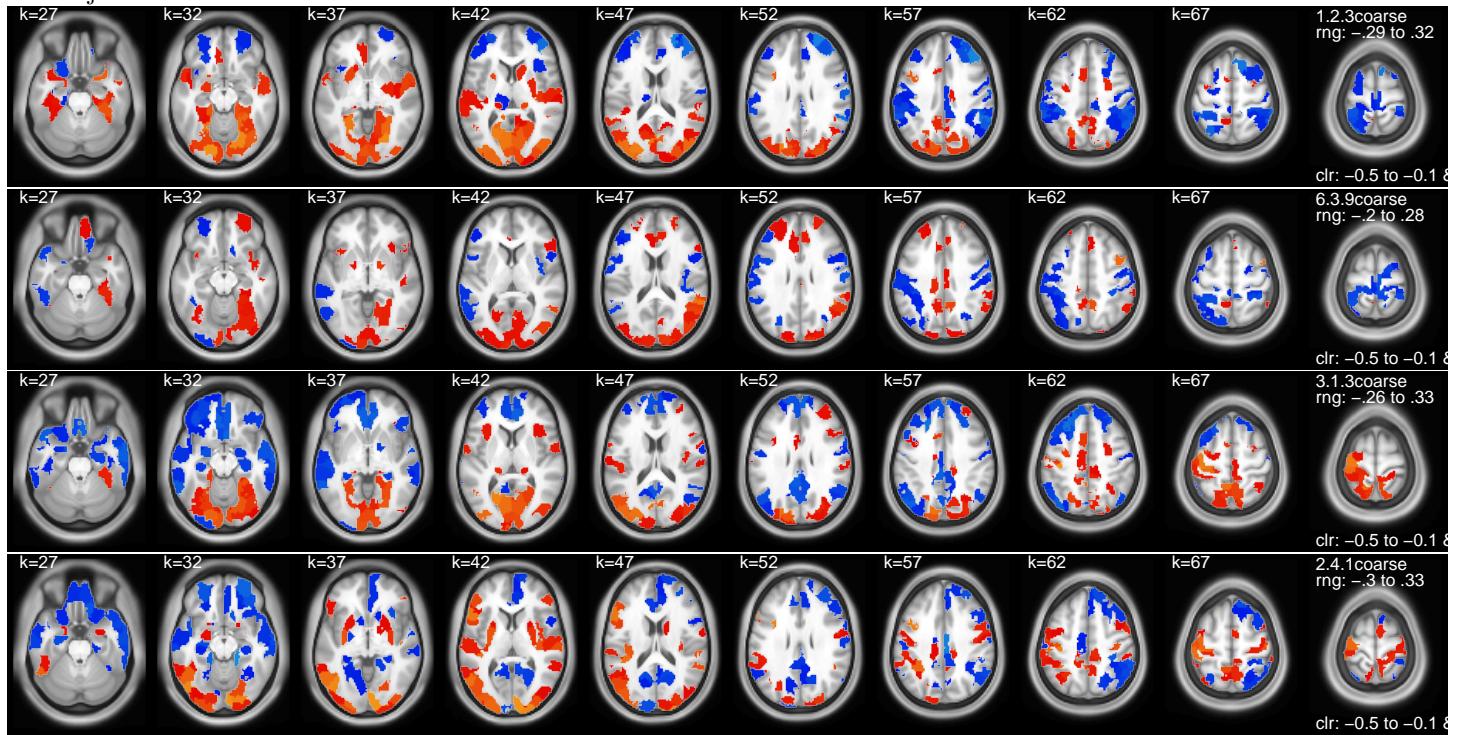
subject 43 the four runs



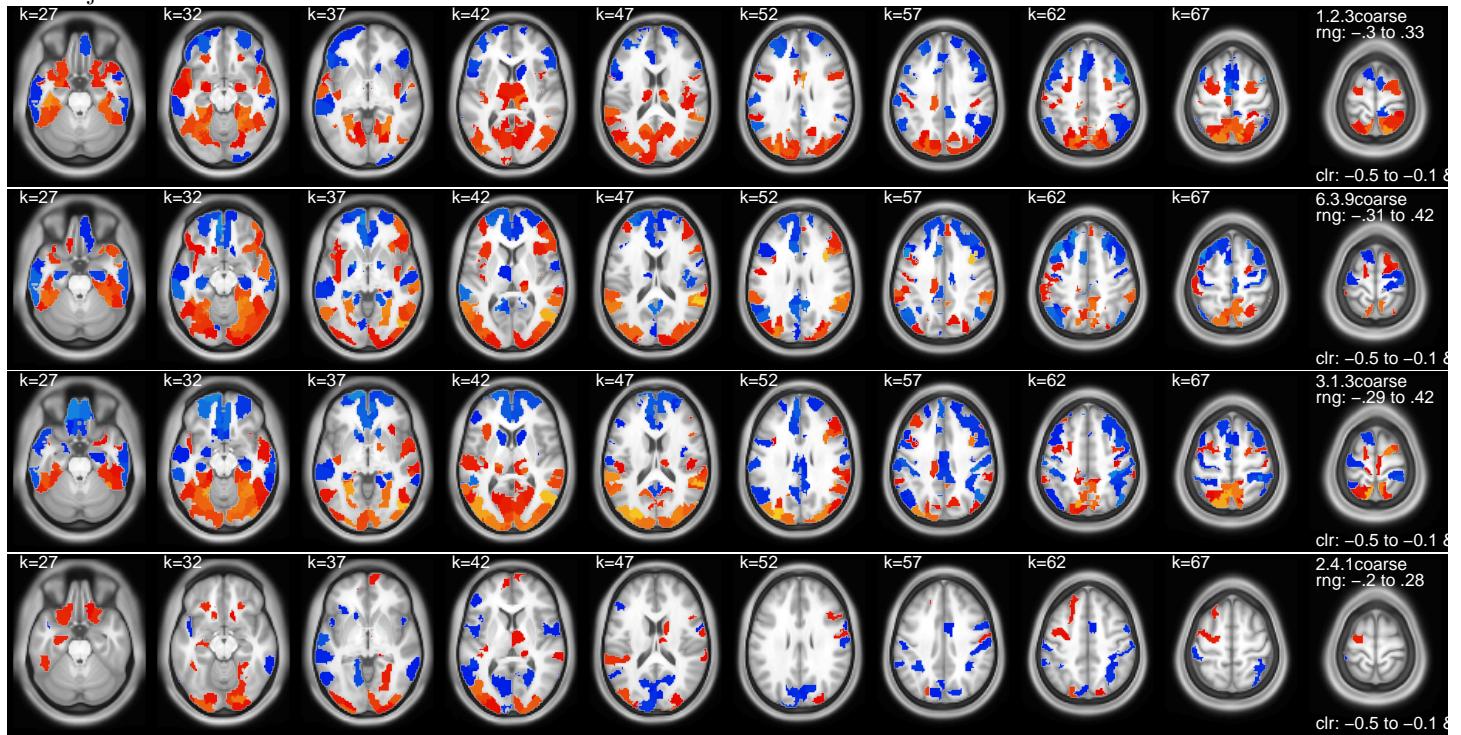
subject 44 the four runs



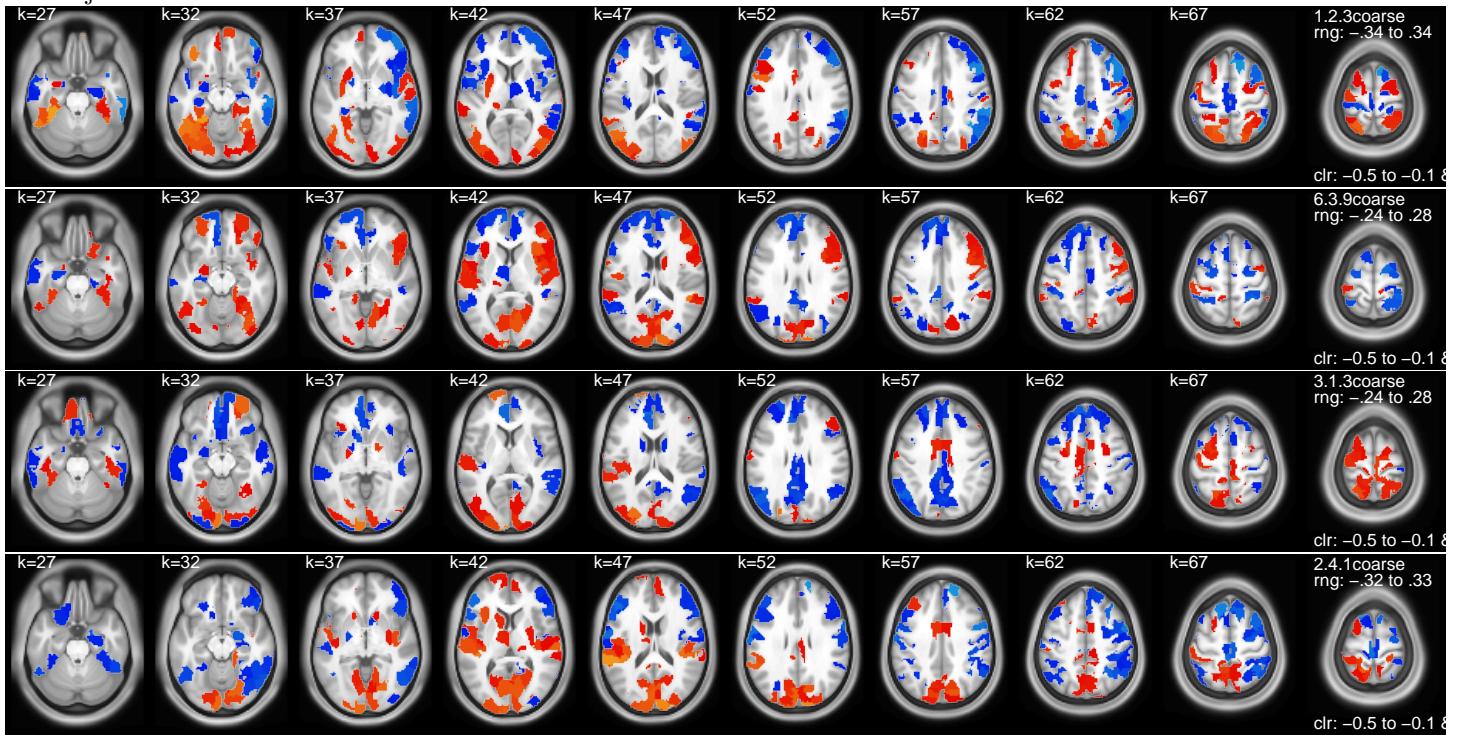
subject 45 the four runs



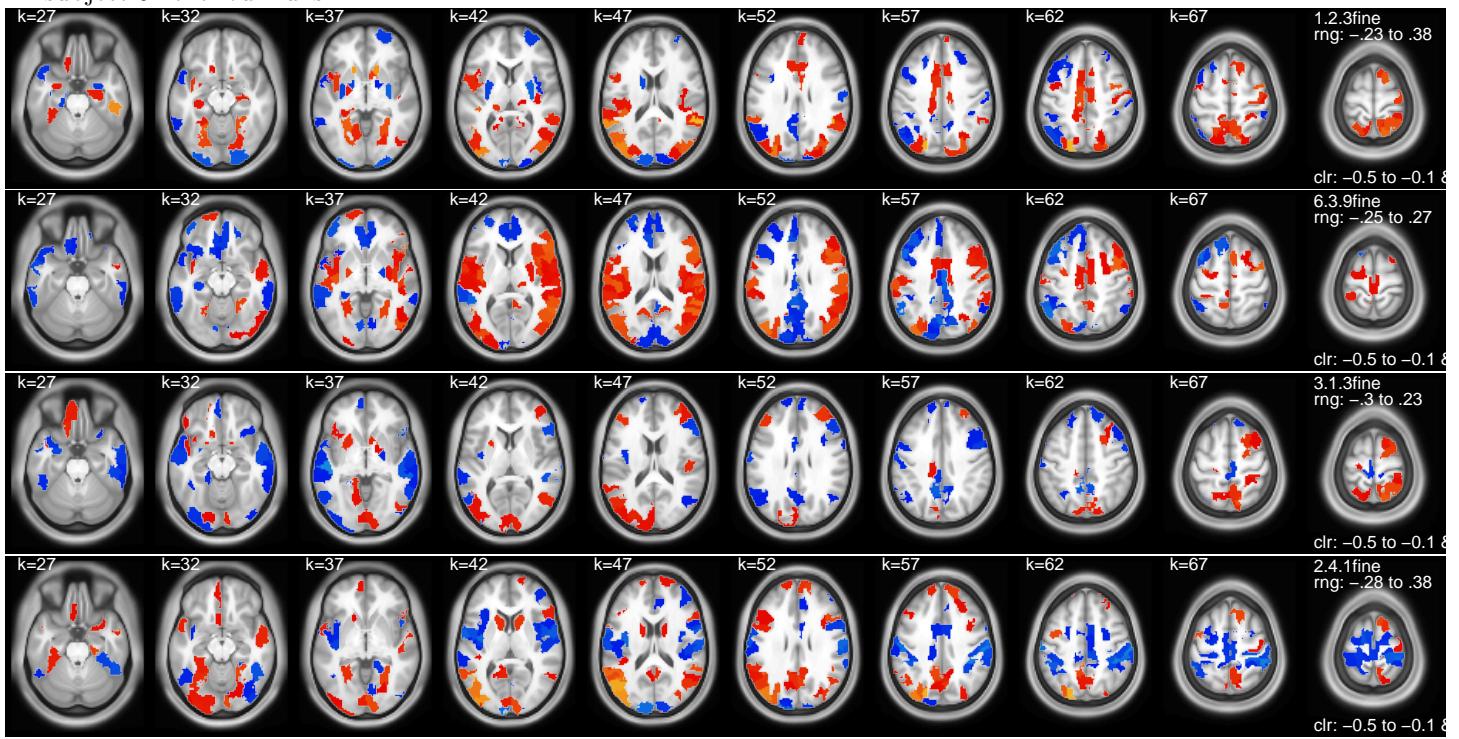
subject 46 the four runs



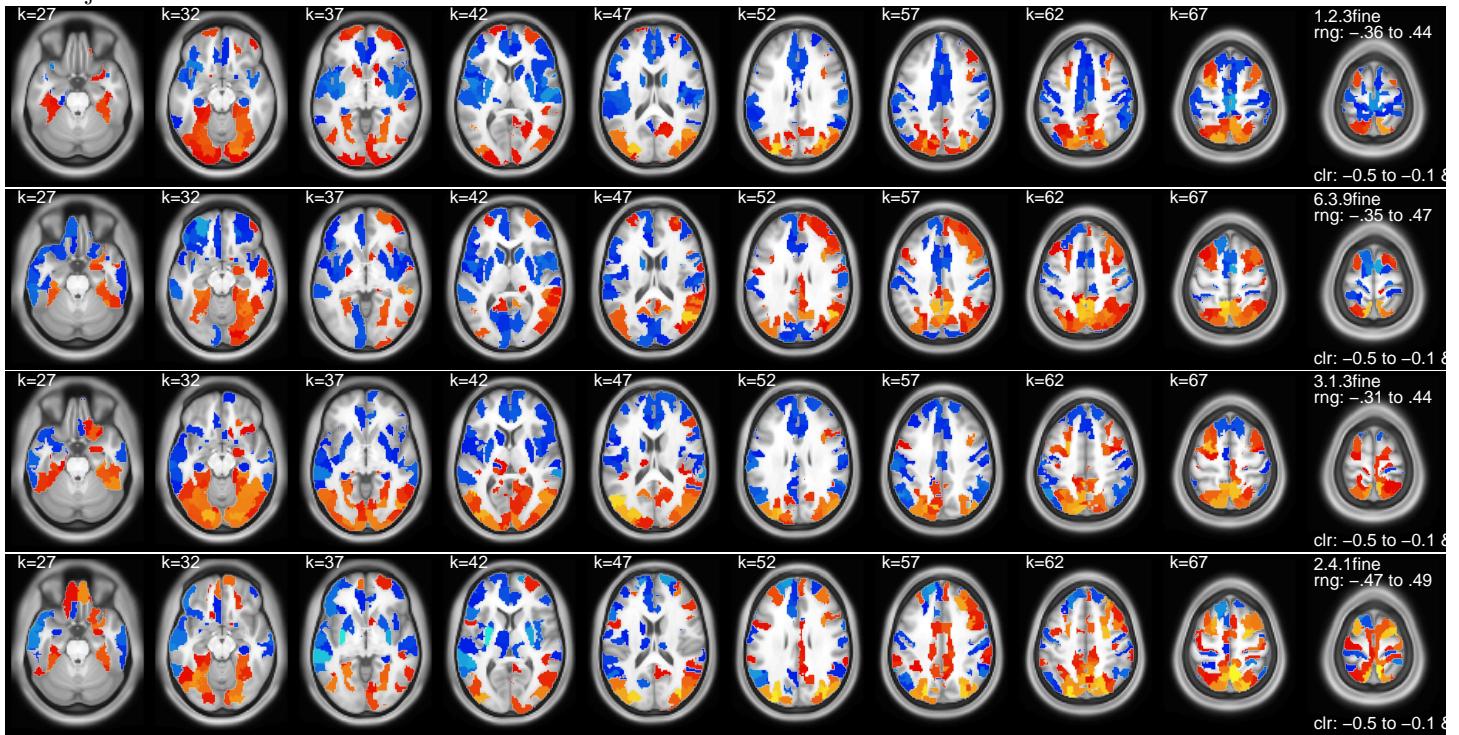
subject 47 the four runs



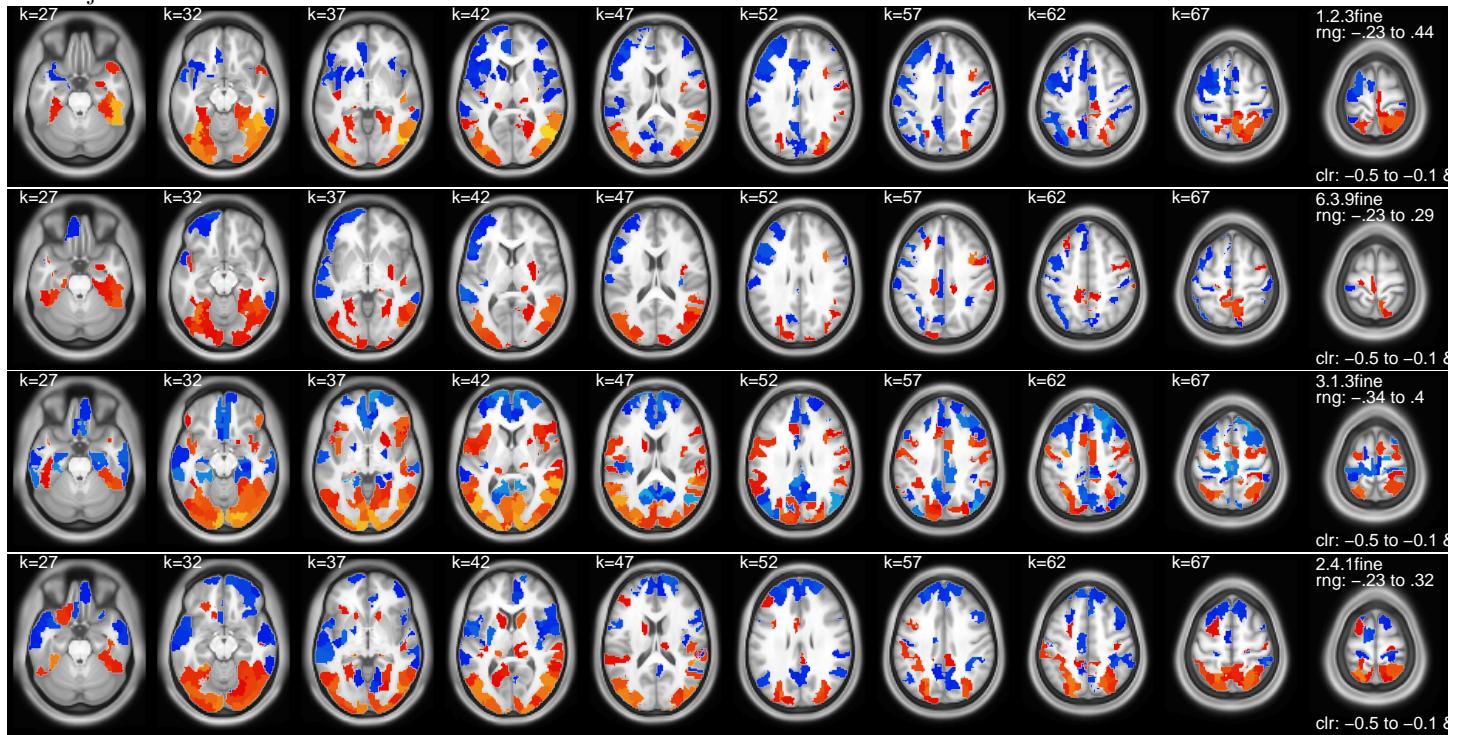
plot fine correlations with parcel timeseries  
subject 01 the four runs



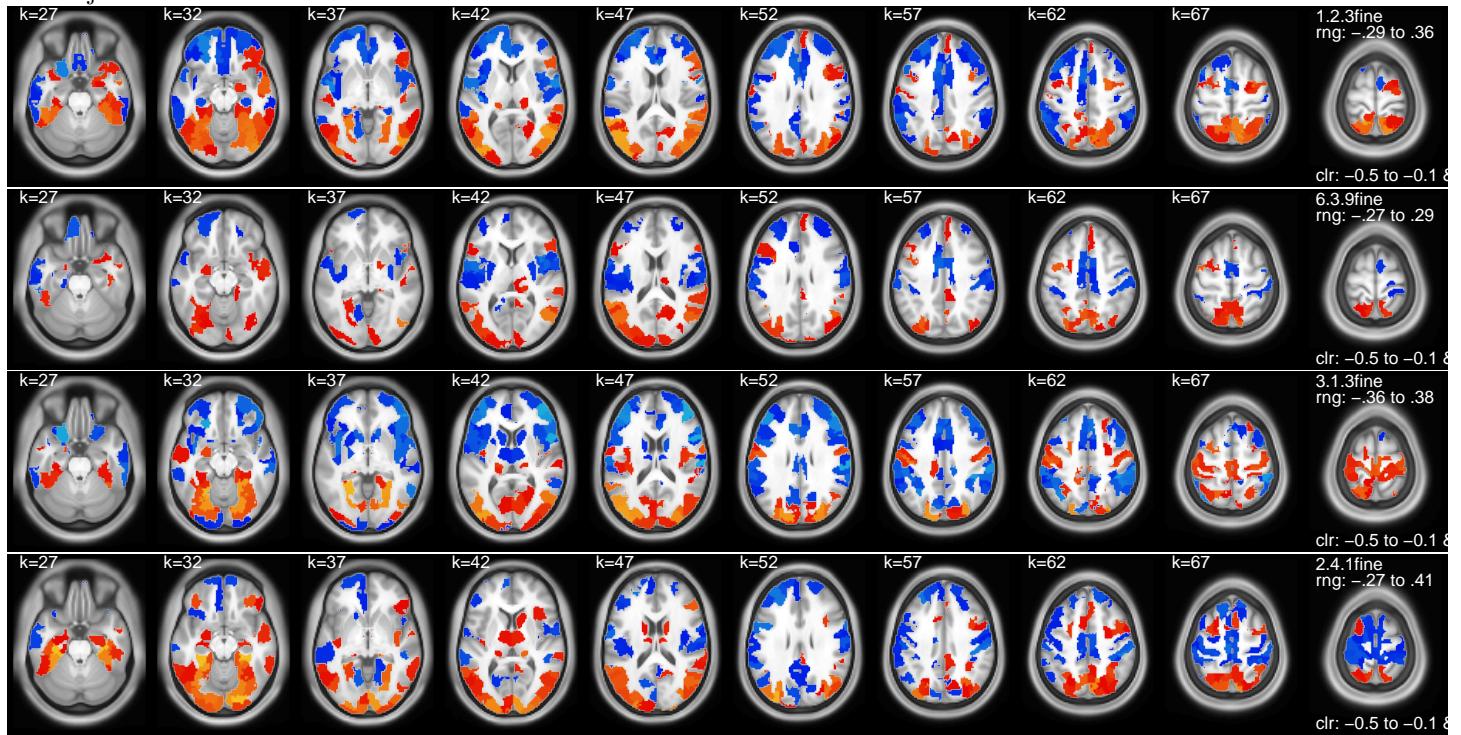
subject 02 the four runs



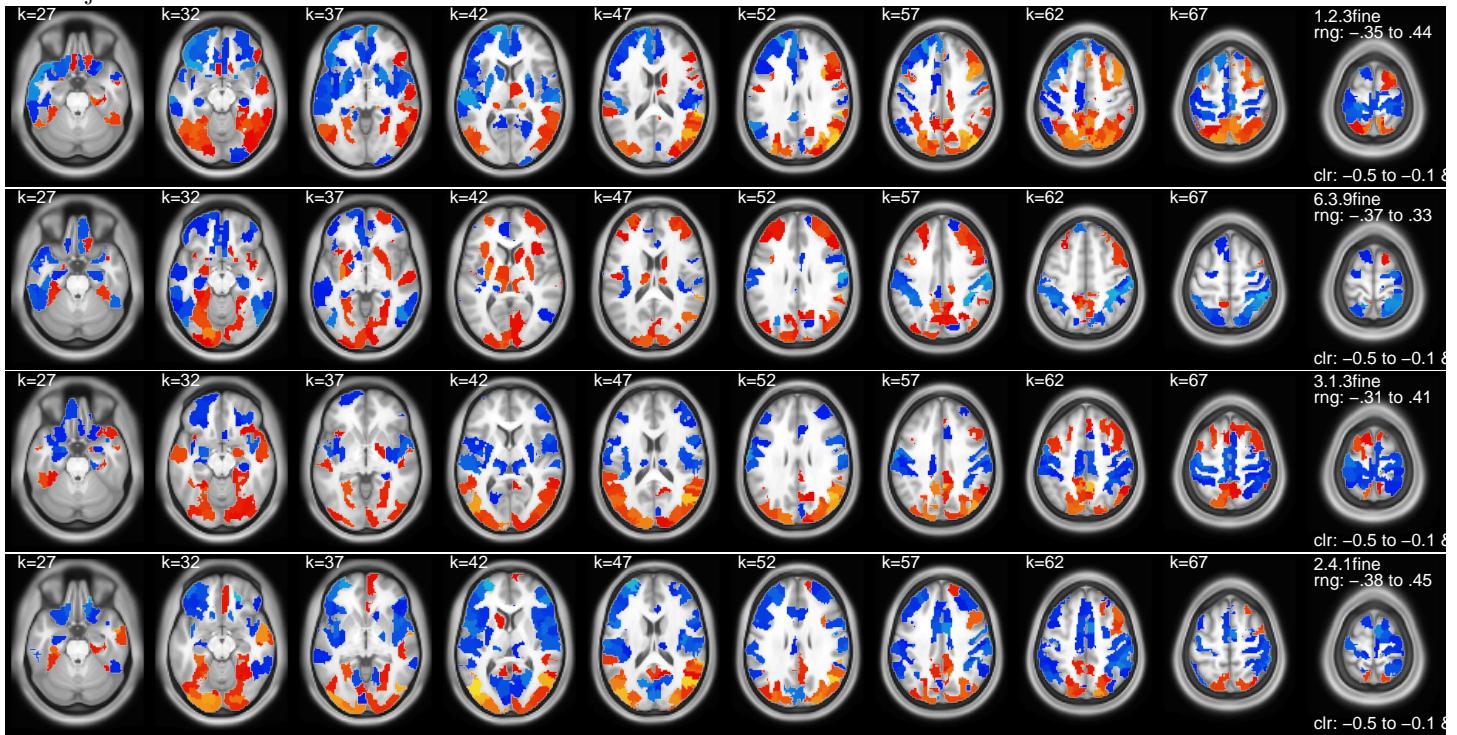
subject 03 the four runs



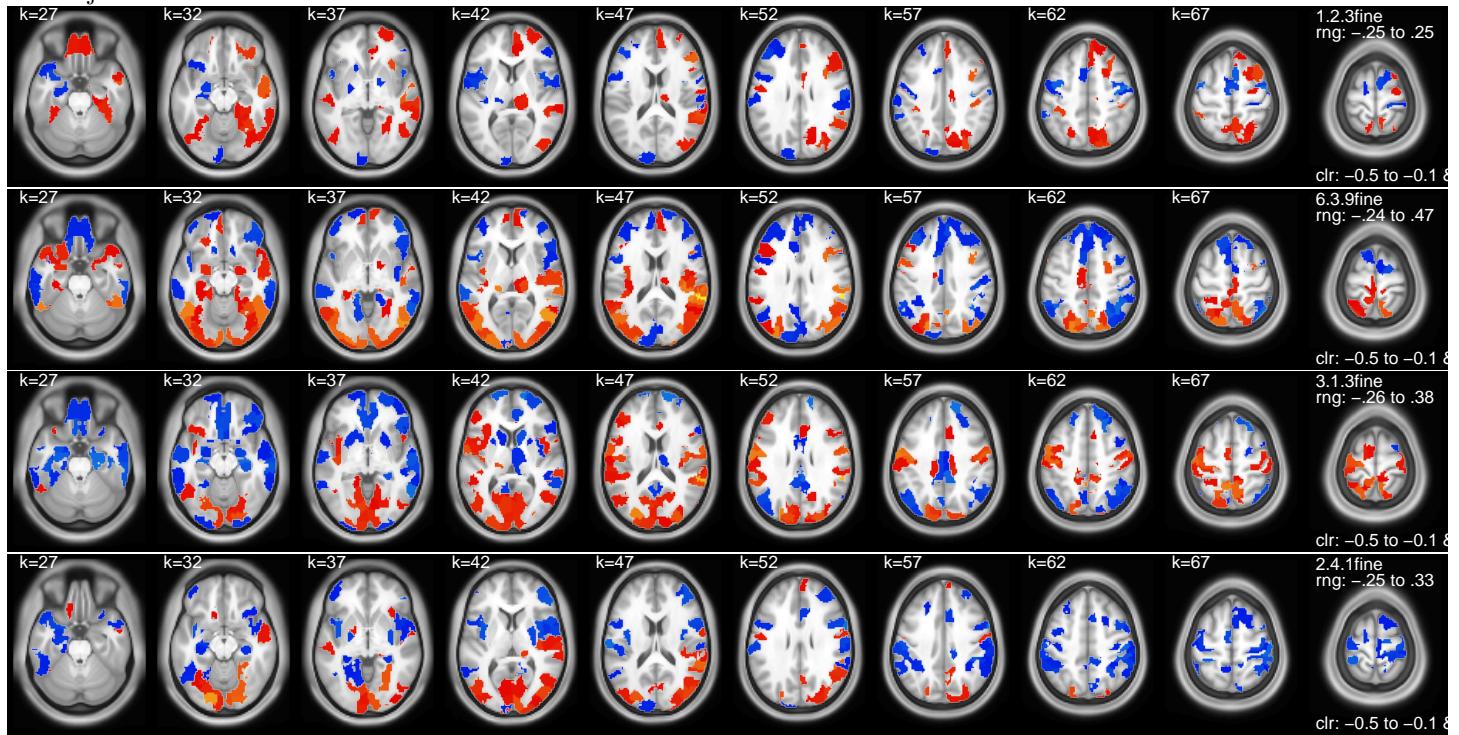
subject 04 the four runs



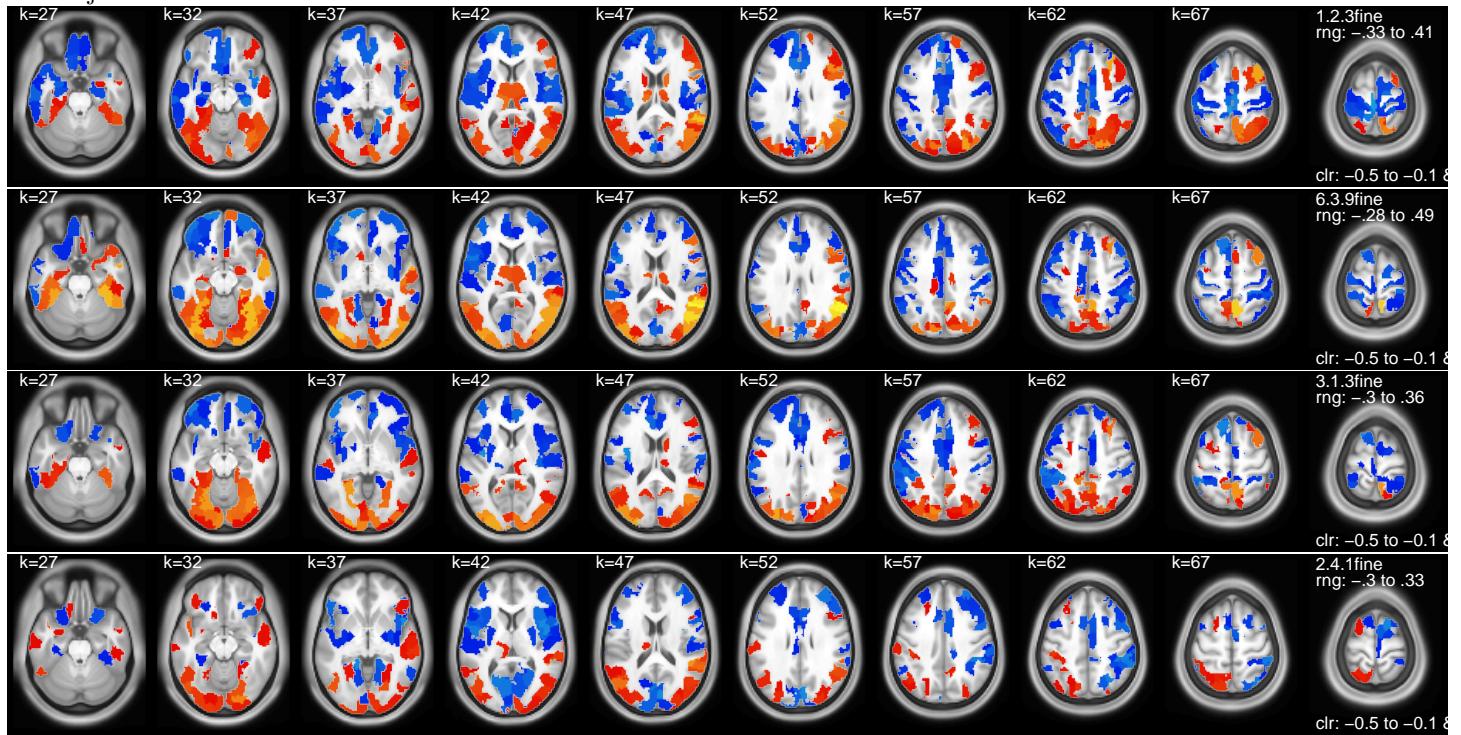
subject 05 the four runs



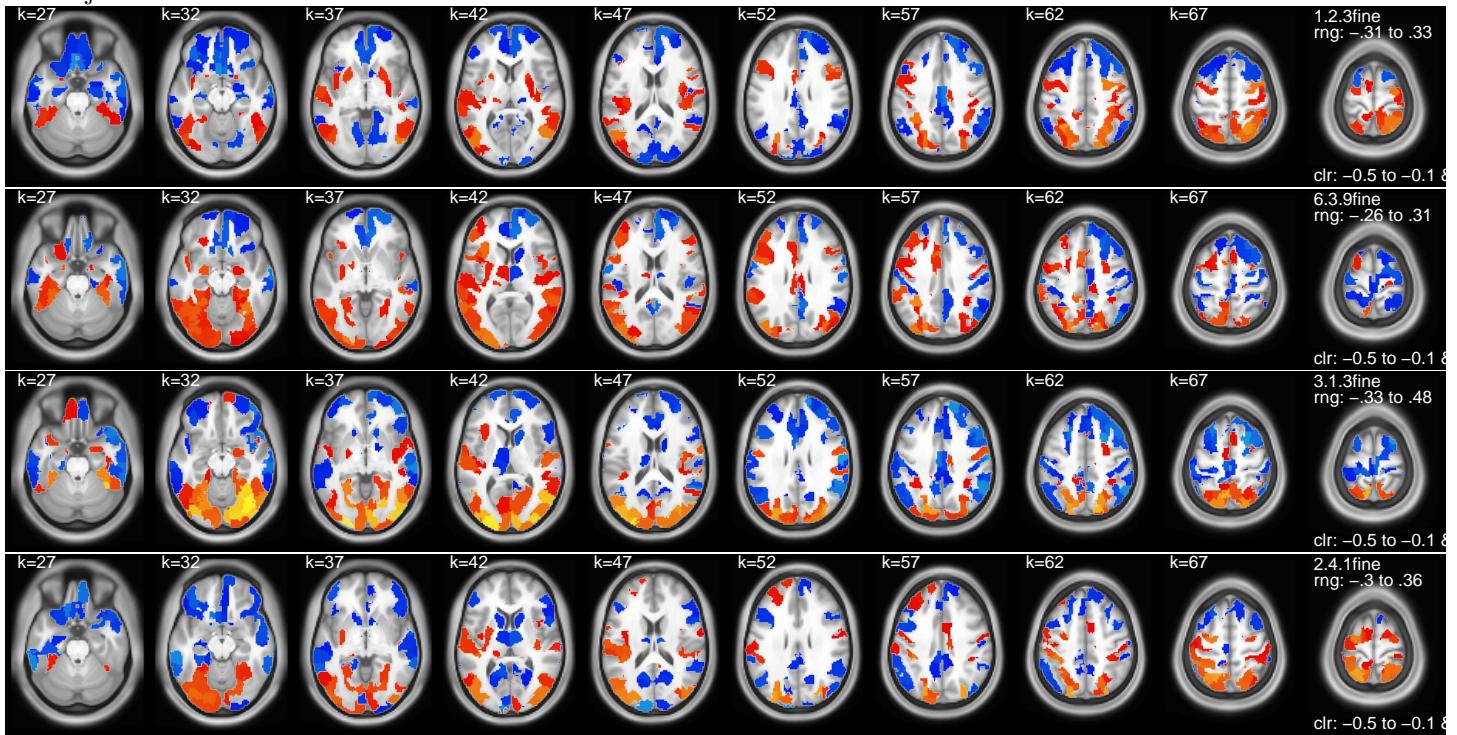
subject 06 the four runs



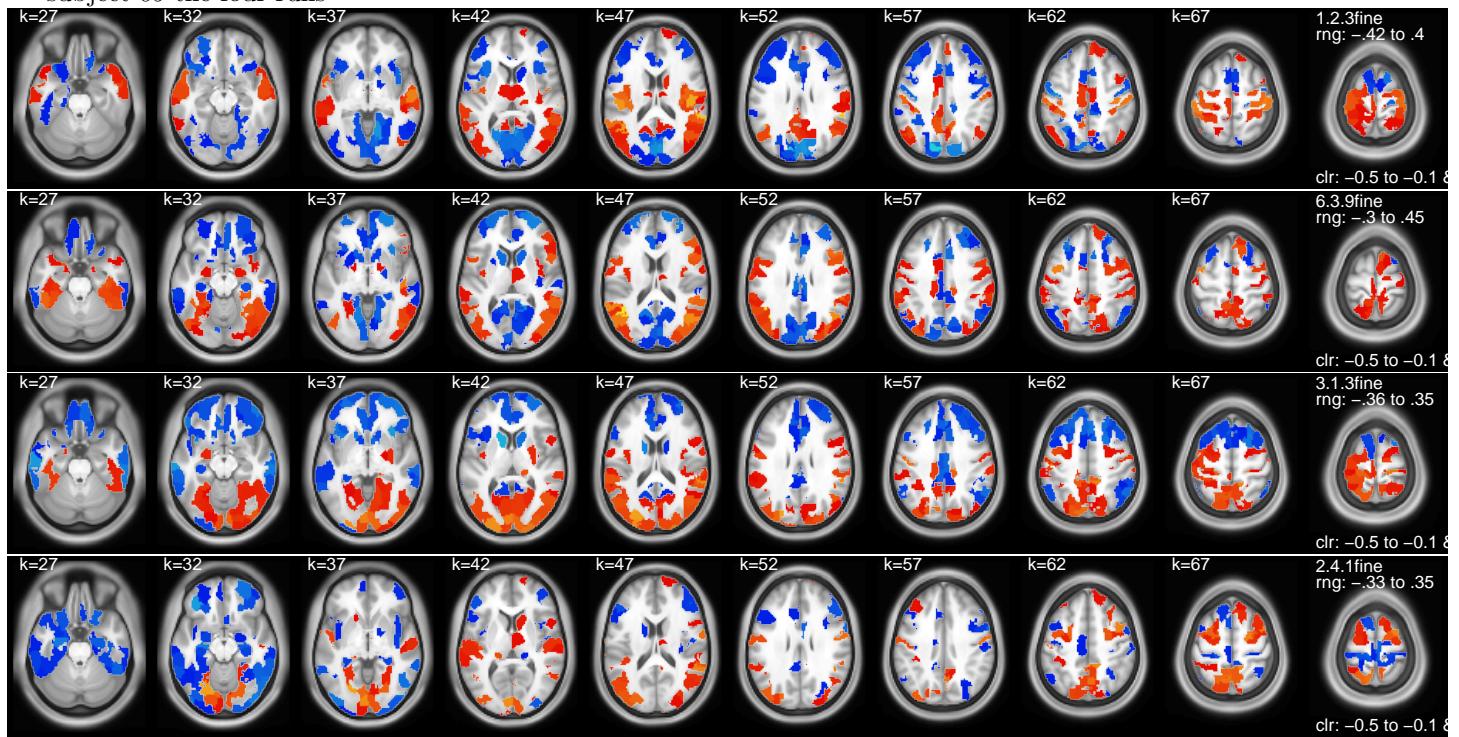
subject 07 the four runs



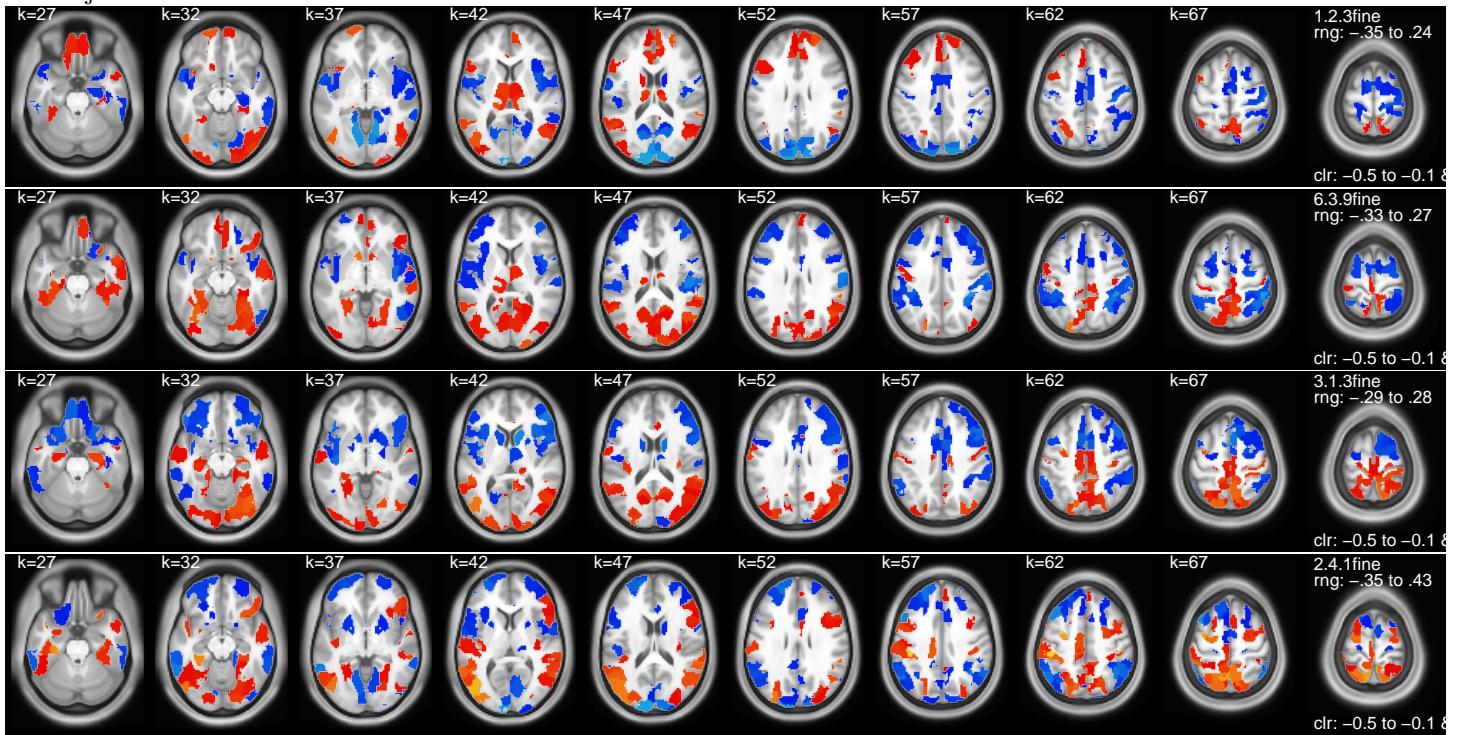
subject 08 the four runs



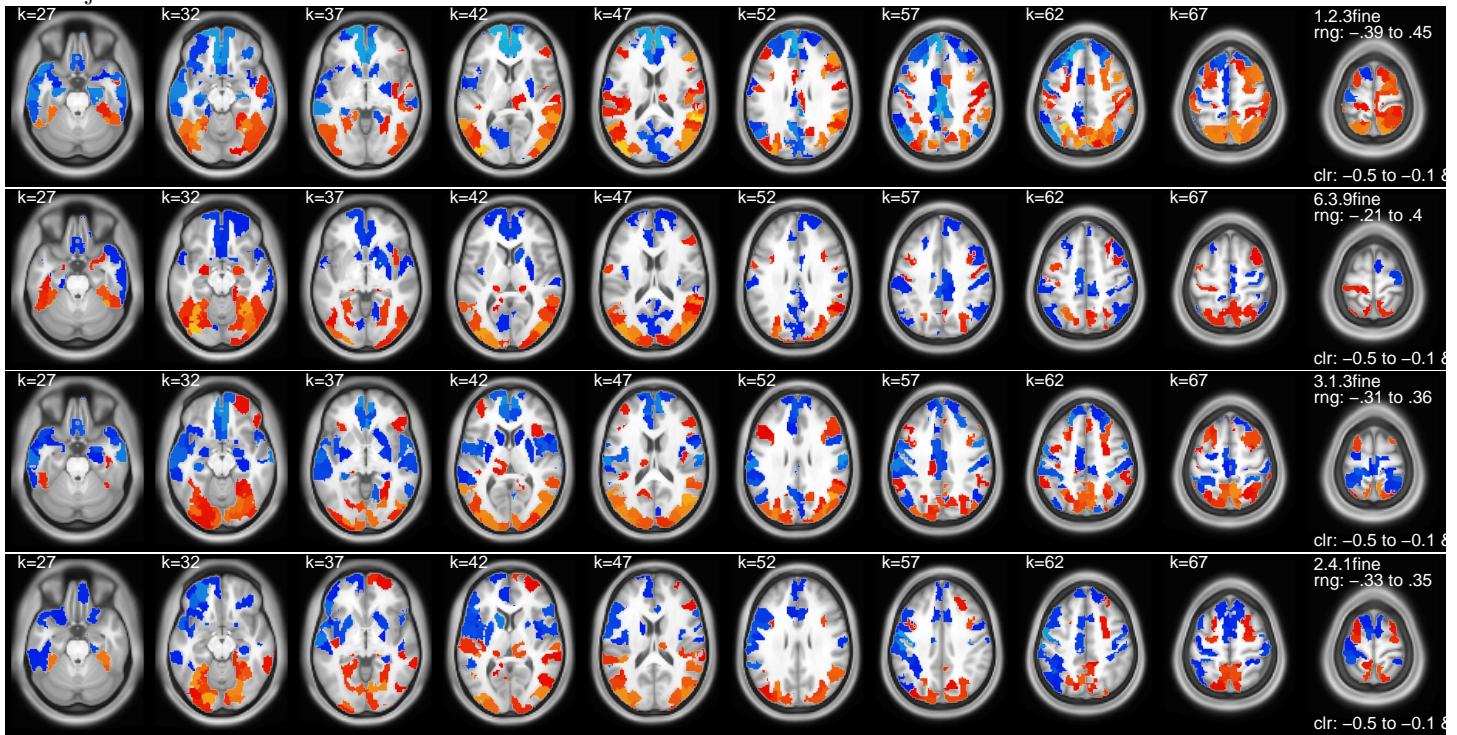
subject 09 the four runs



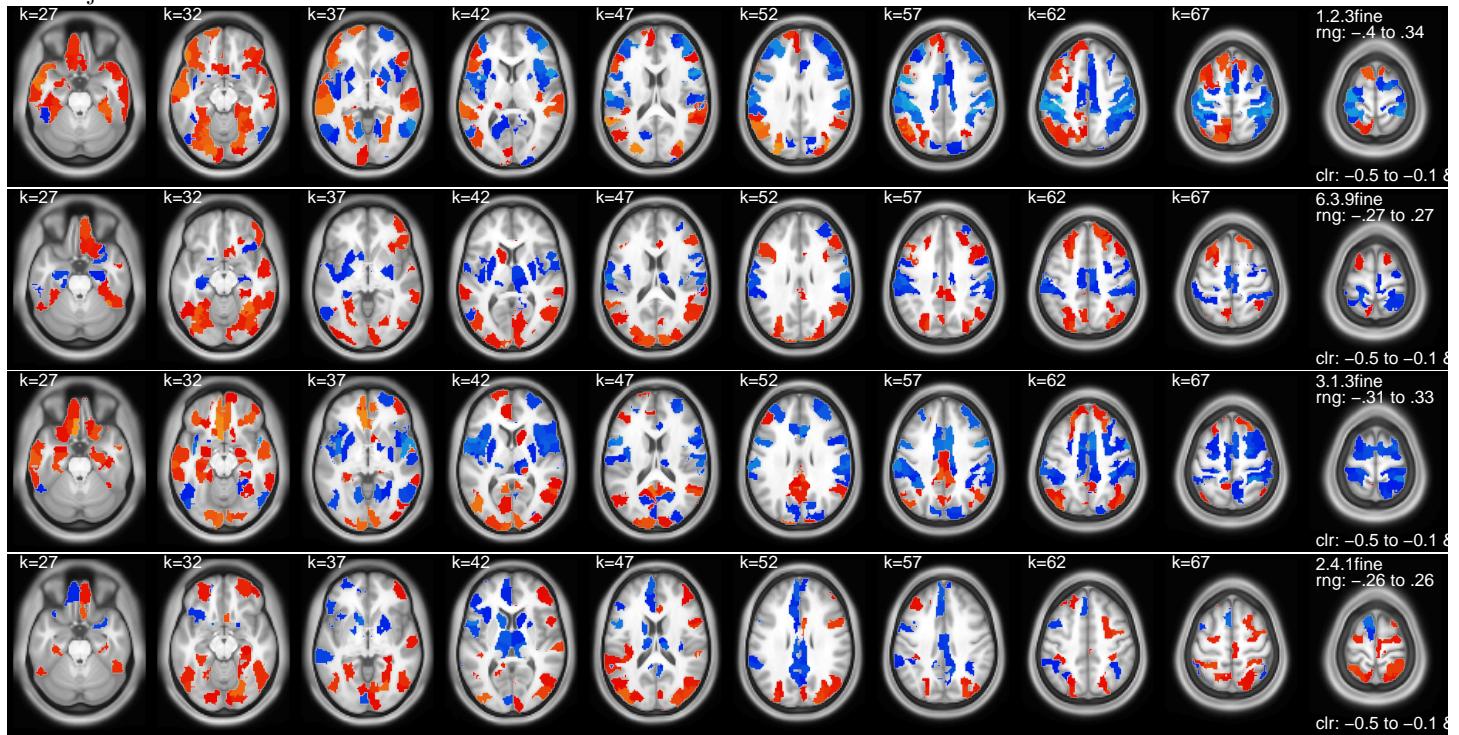
subject 12 the four runs



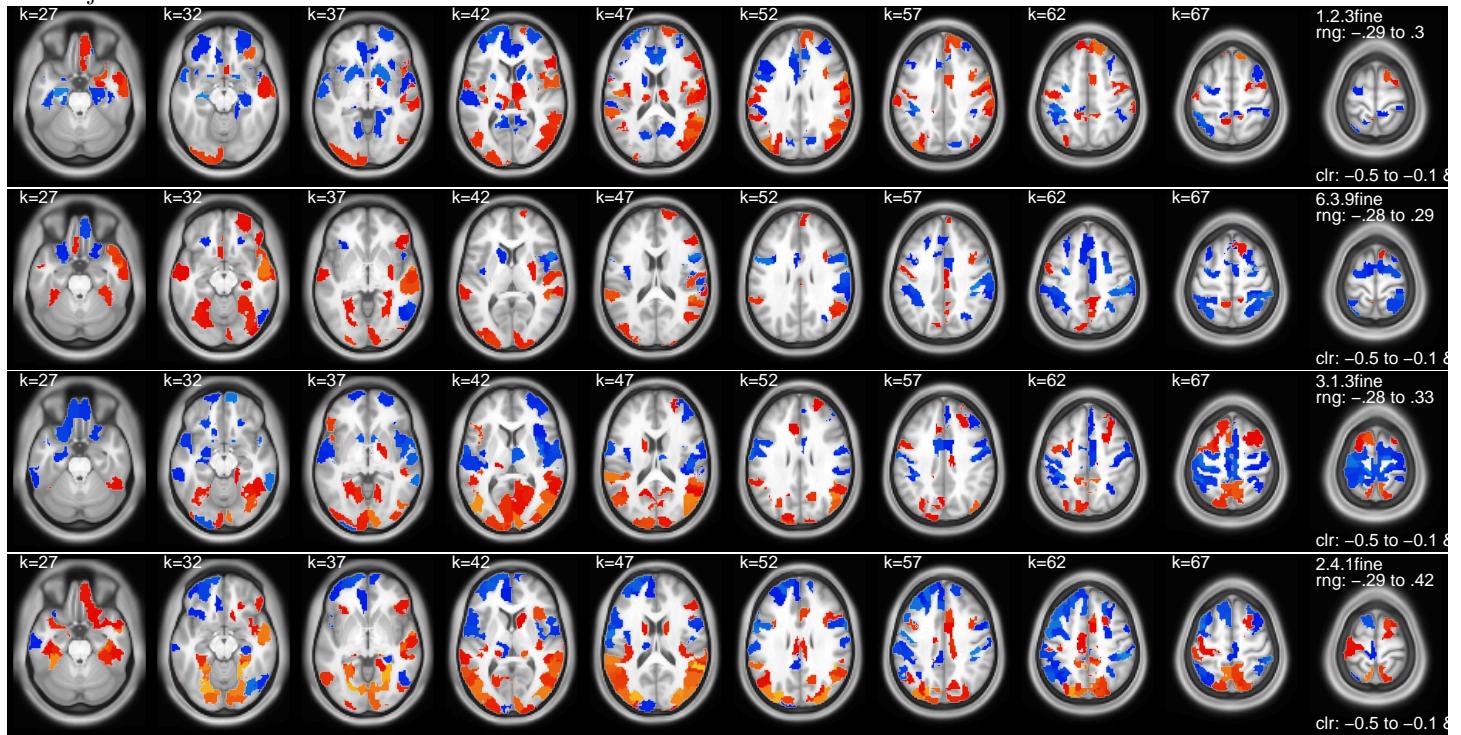
subject 13 the four runs



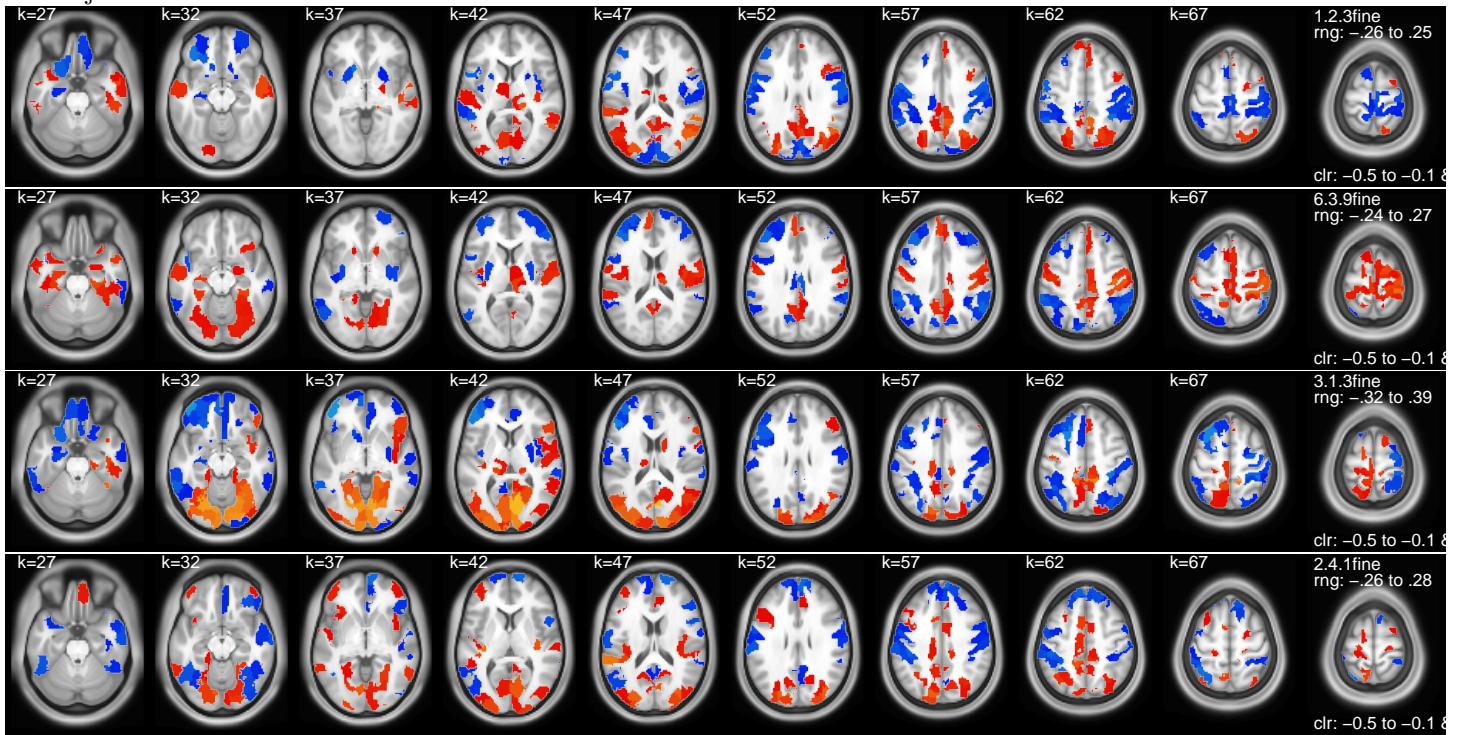
subject 14 the four runs



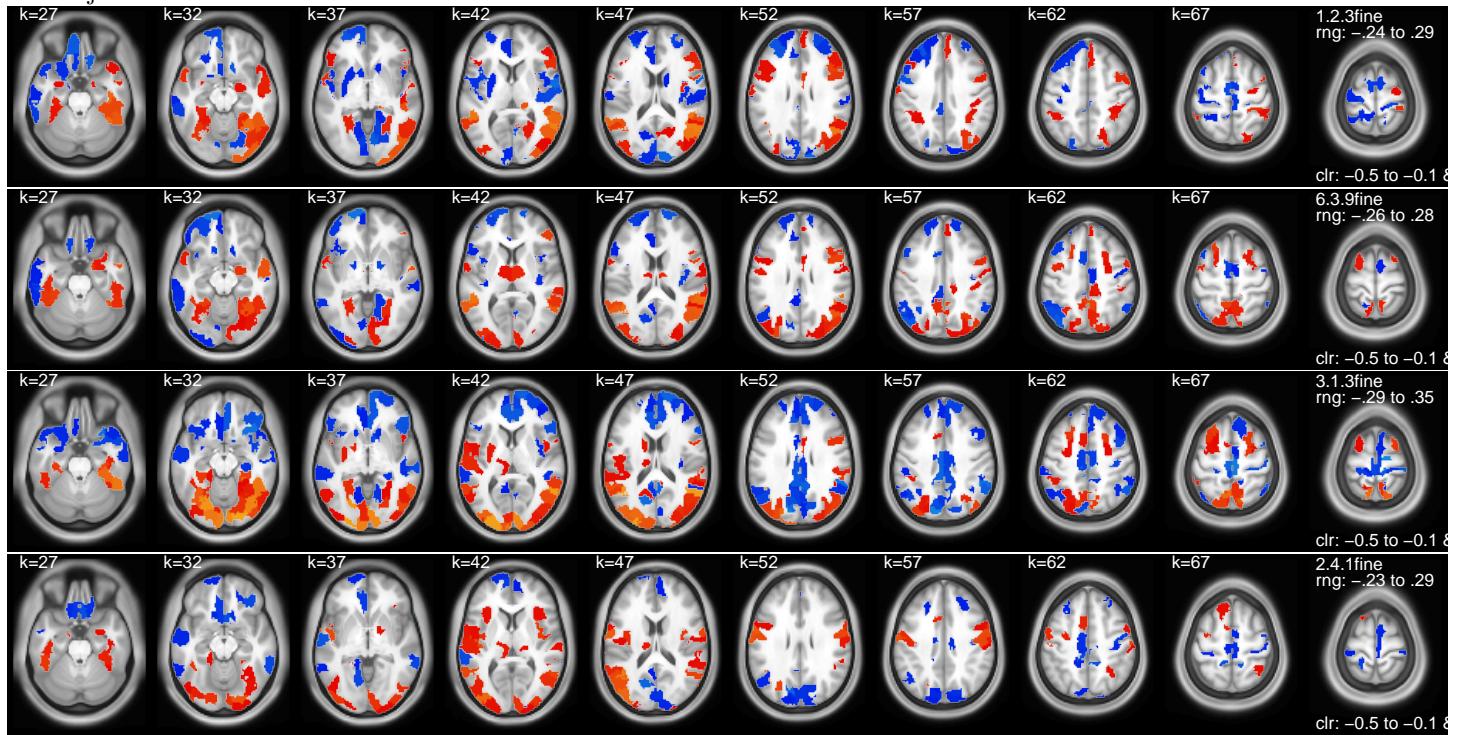
subject 15 the four runs



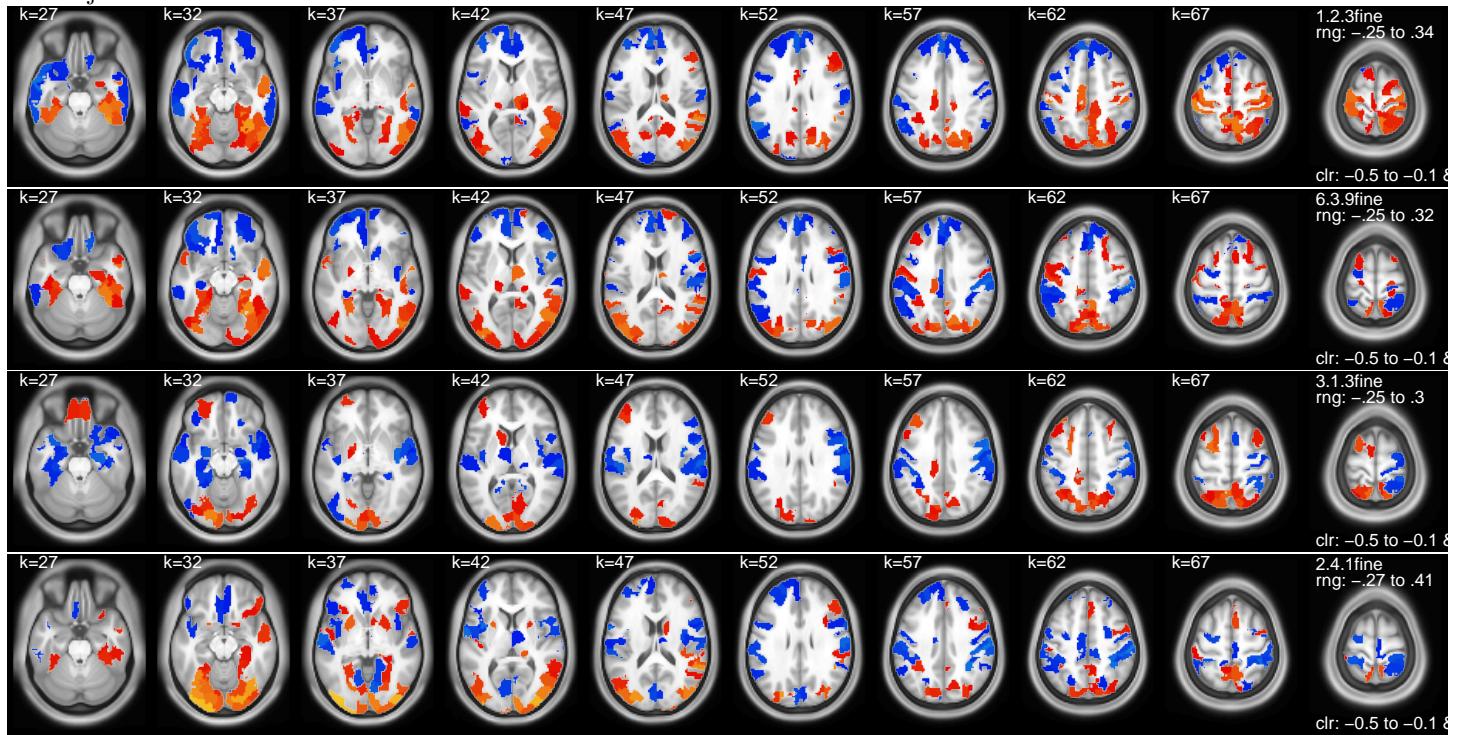
subject 16 the four runs



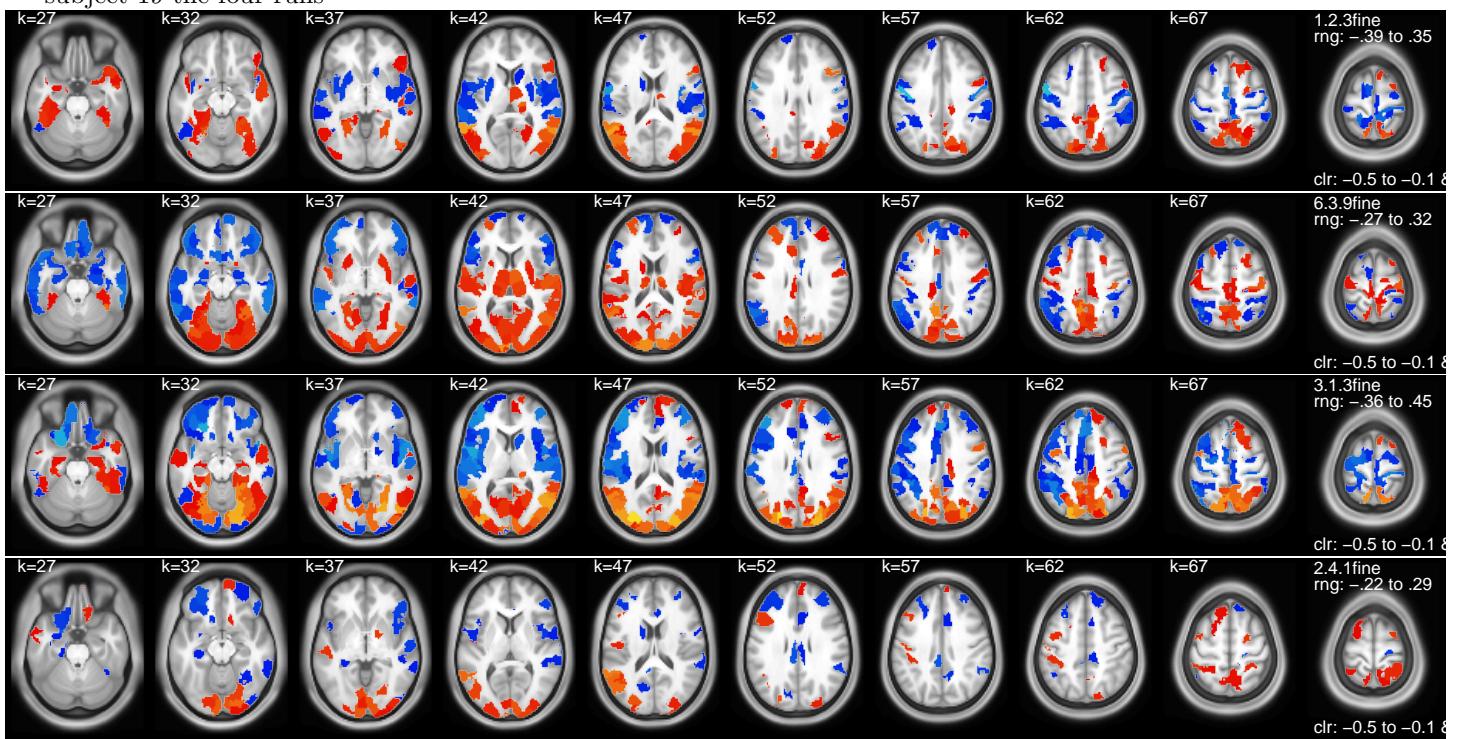
subject 17 the four runs



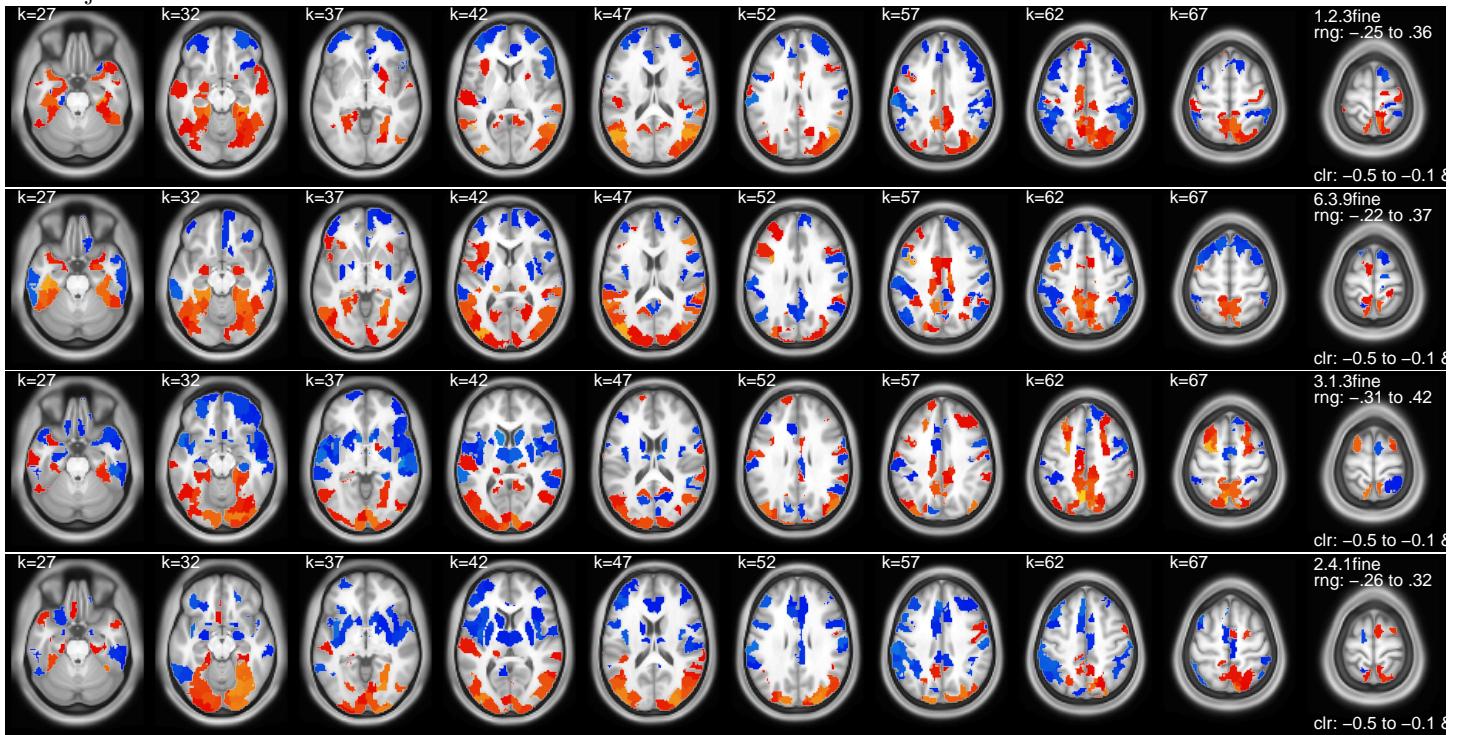
subject 18 the four runs



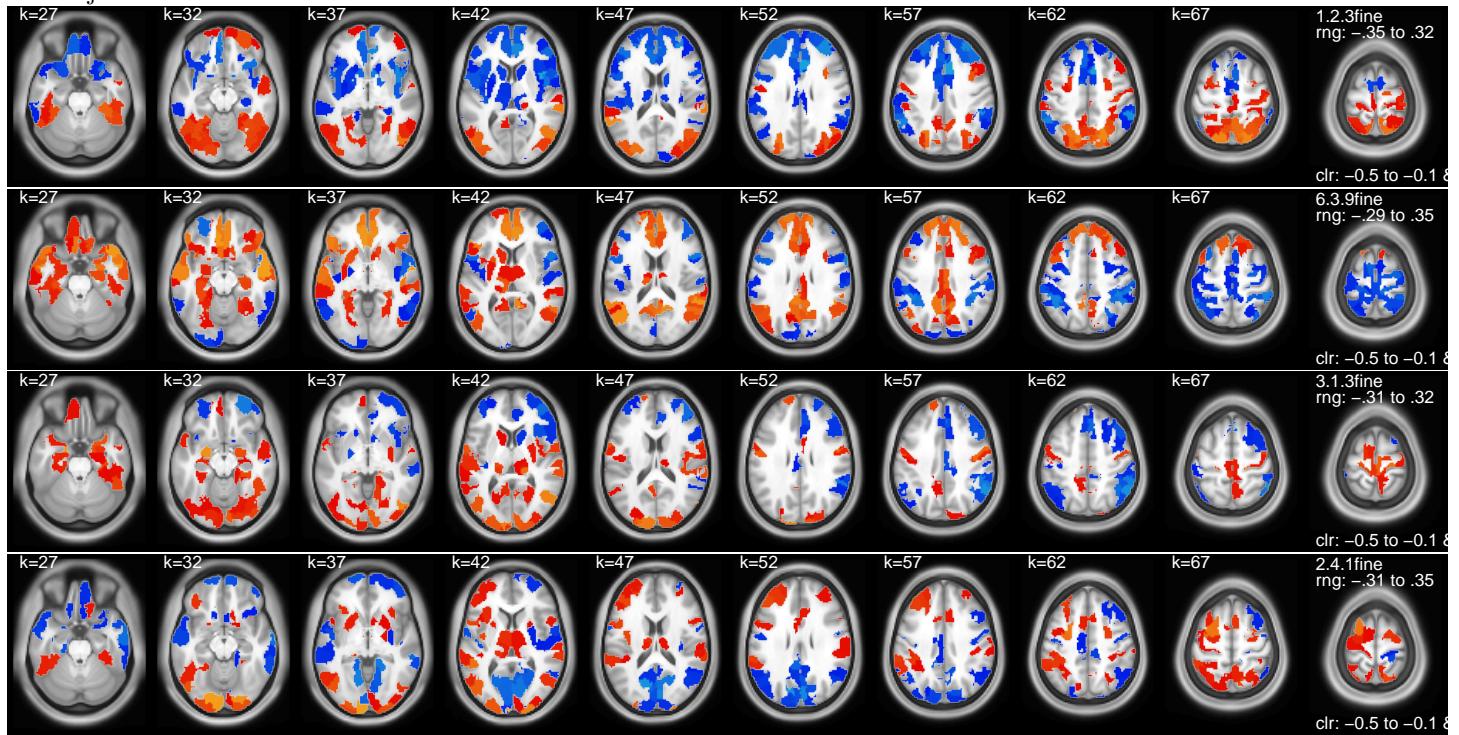
subject 19 the four runs



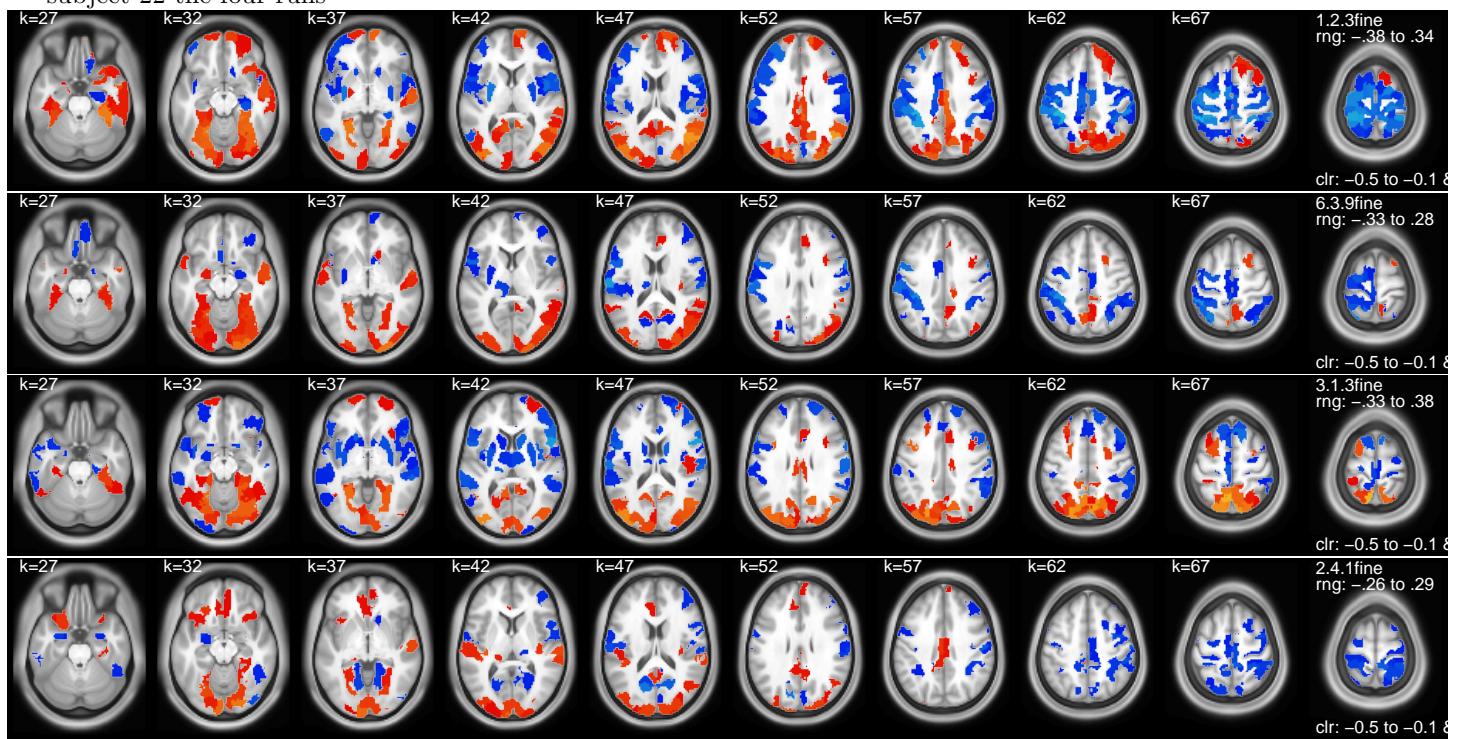
subject 20 the four runs



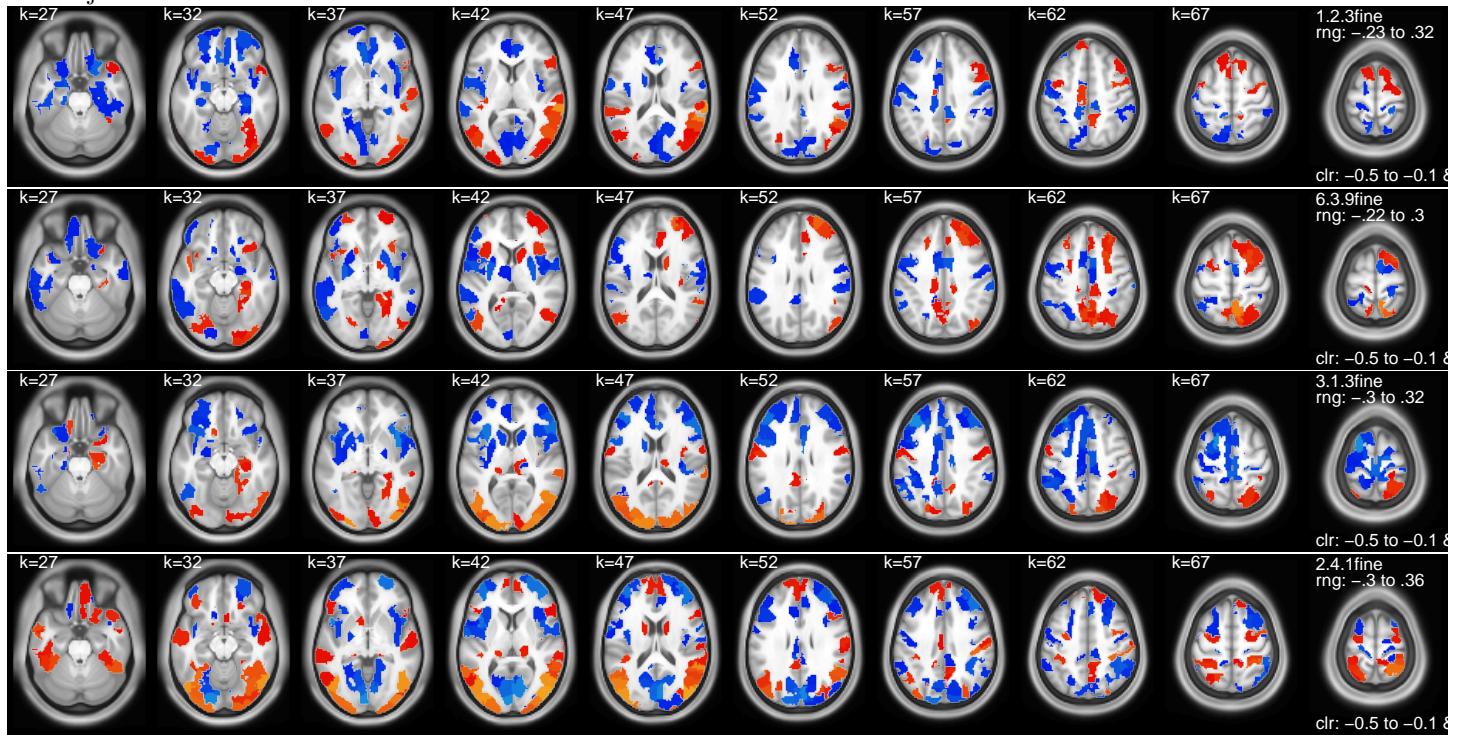
subject 21 the four runs



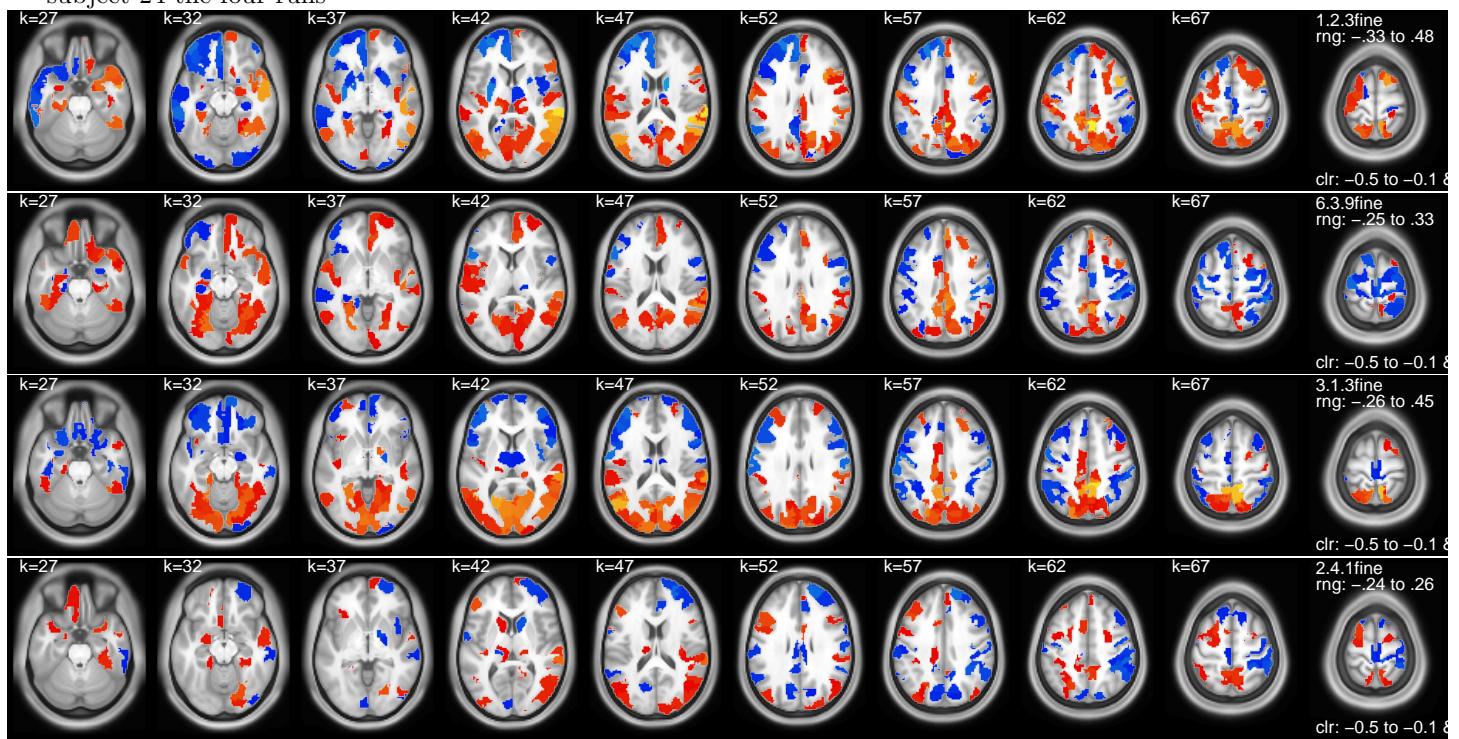
subject 22 the four runs



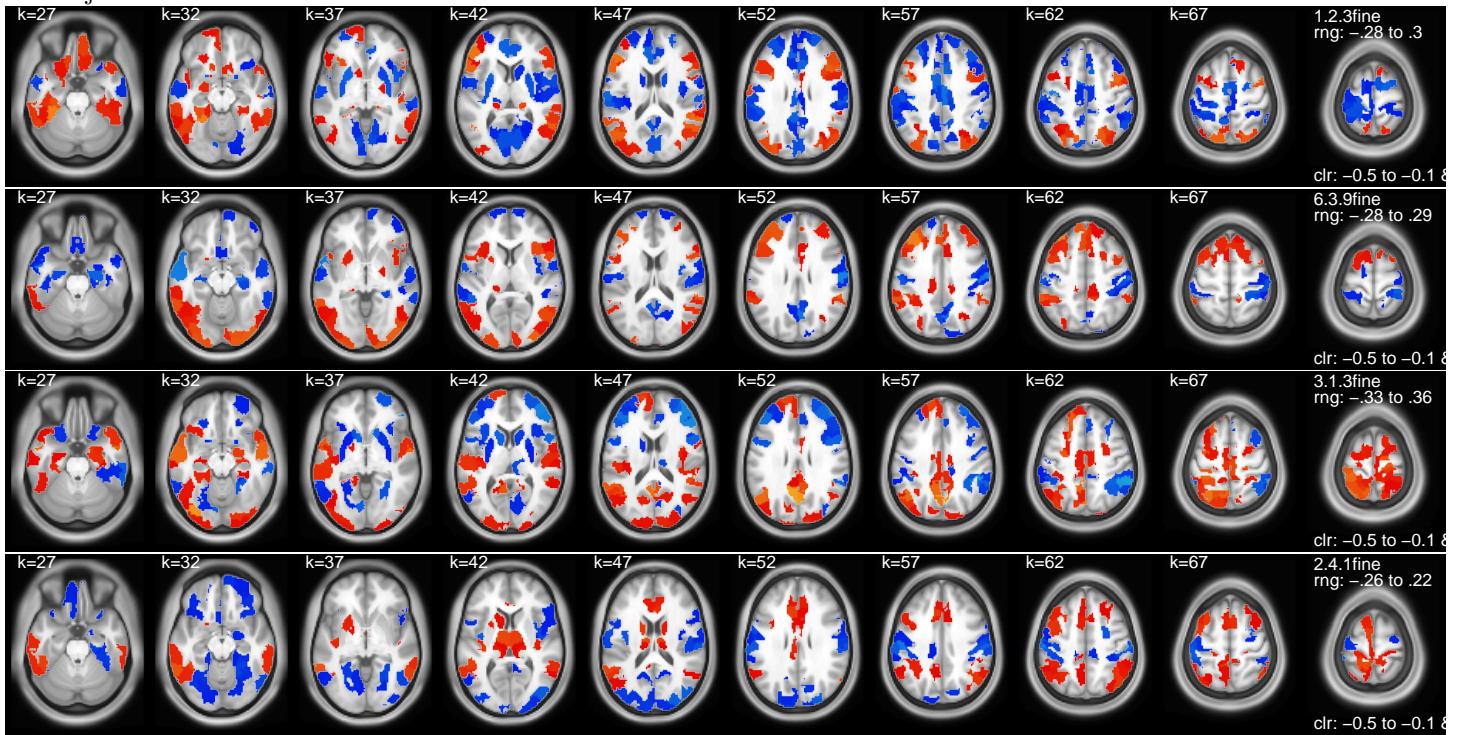
subject 23 the four runs



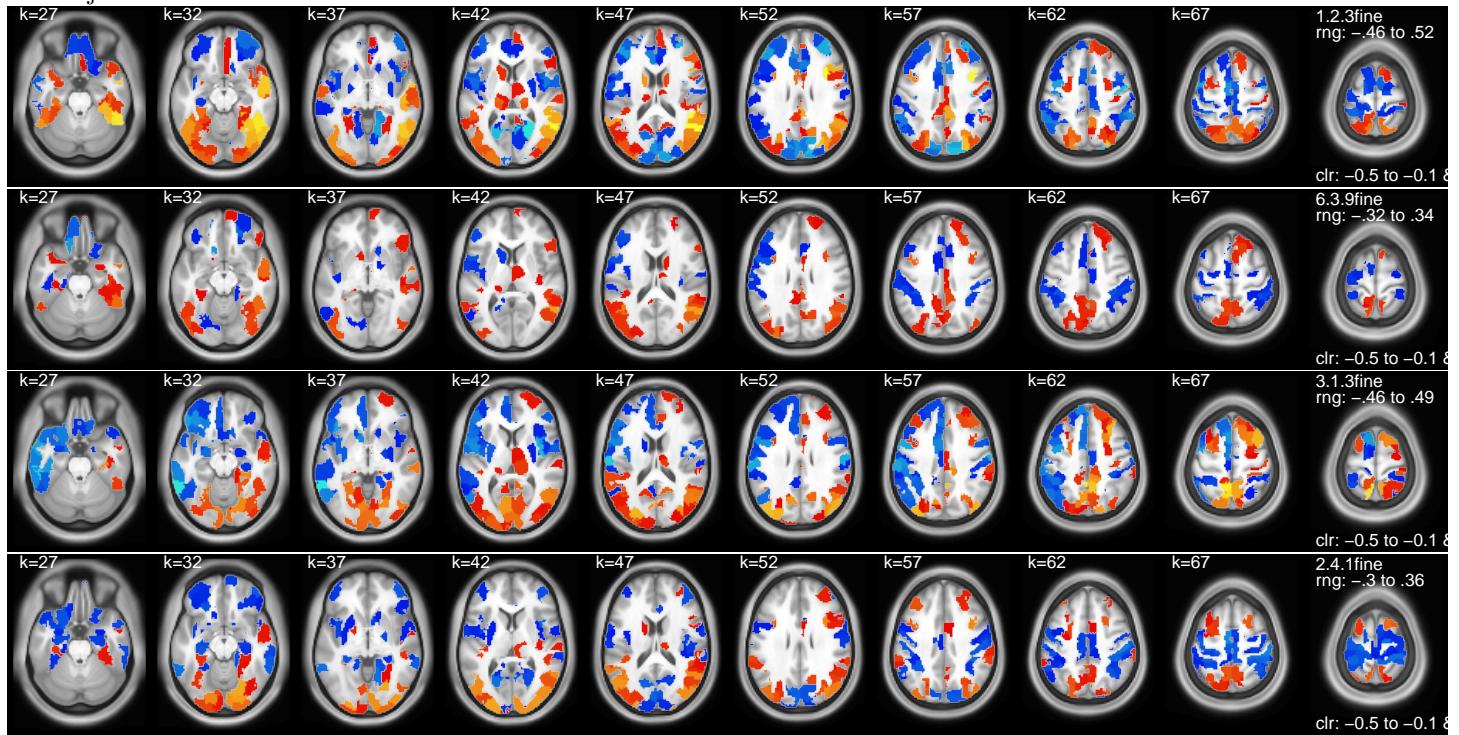
subject 24 the four runs



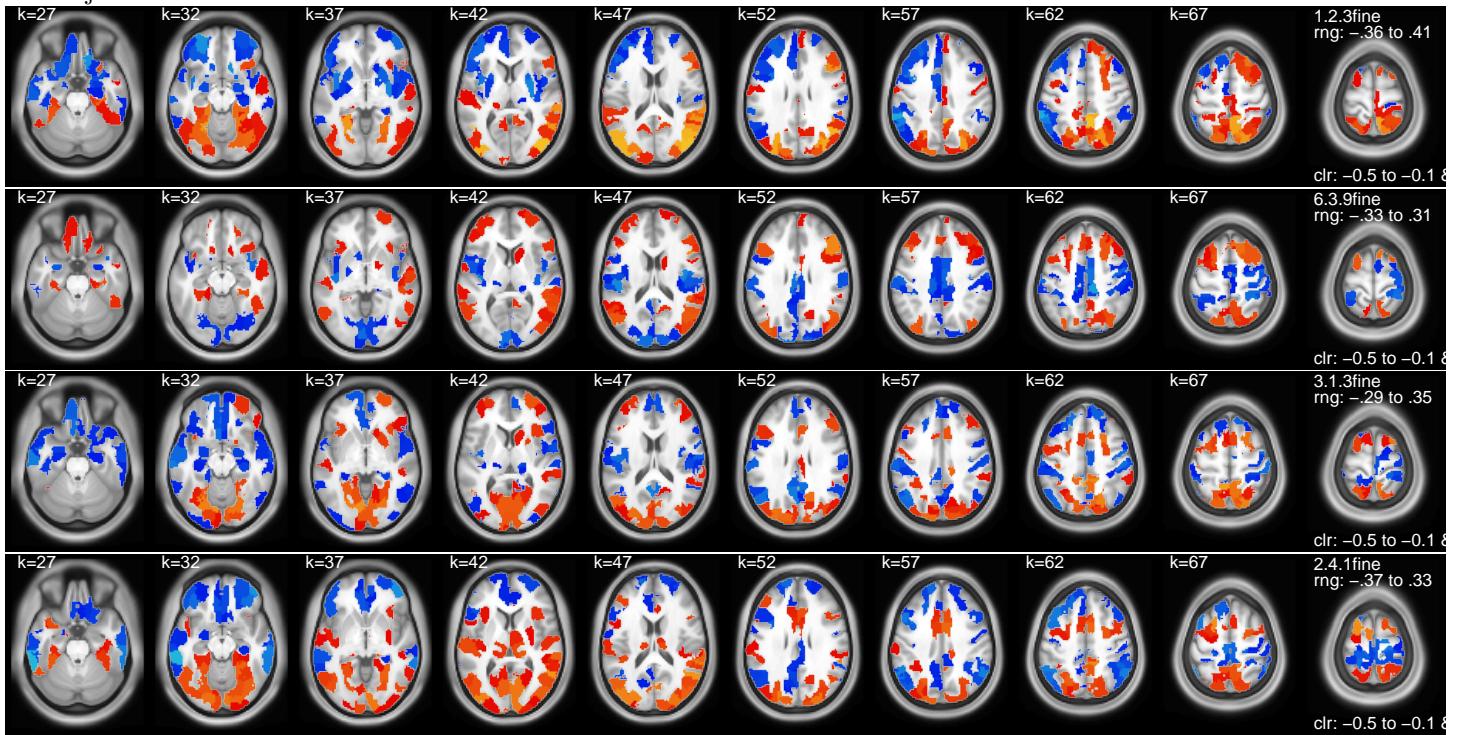
subject 25 the four runs



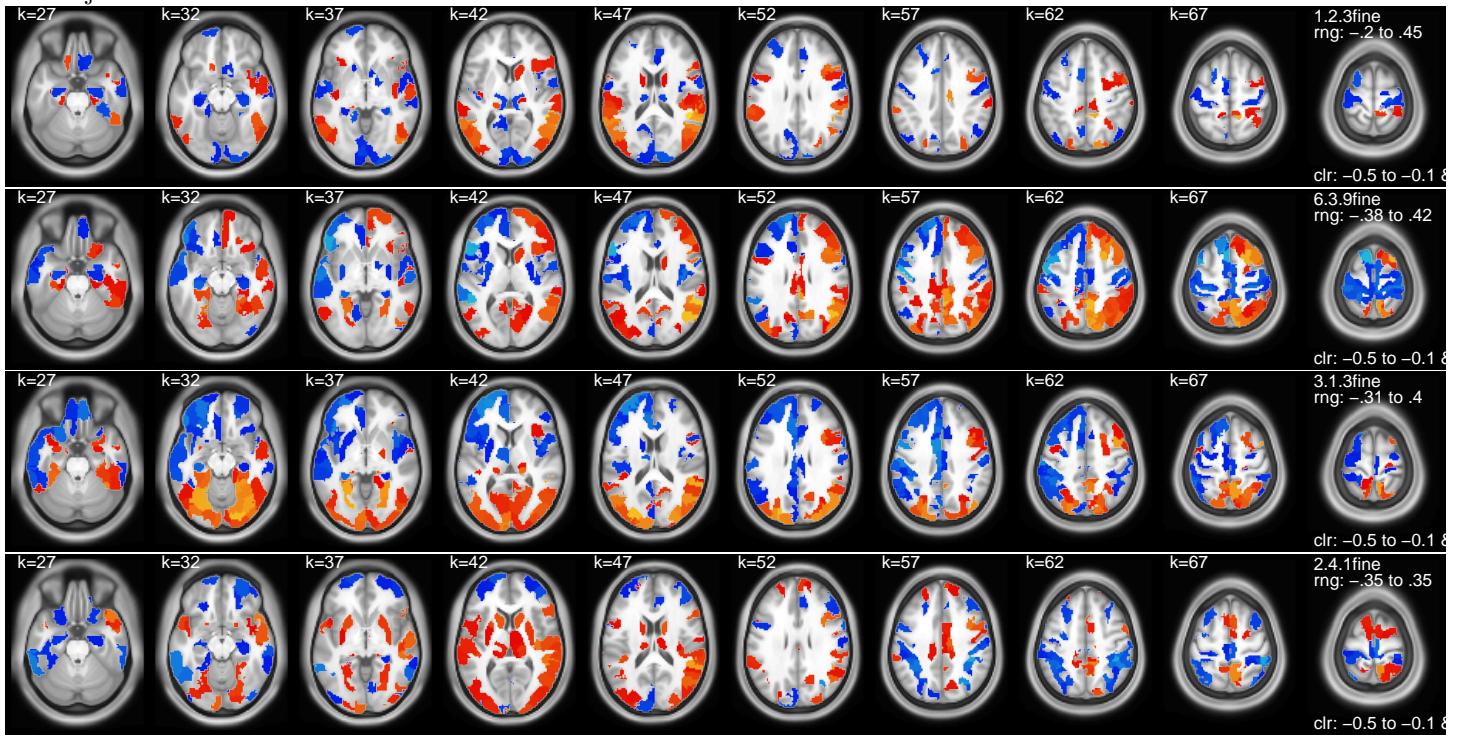
subject 26 the four runs



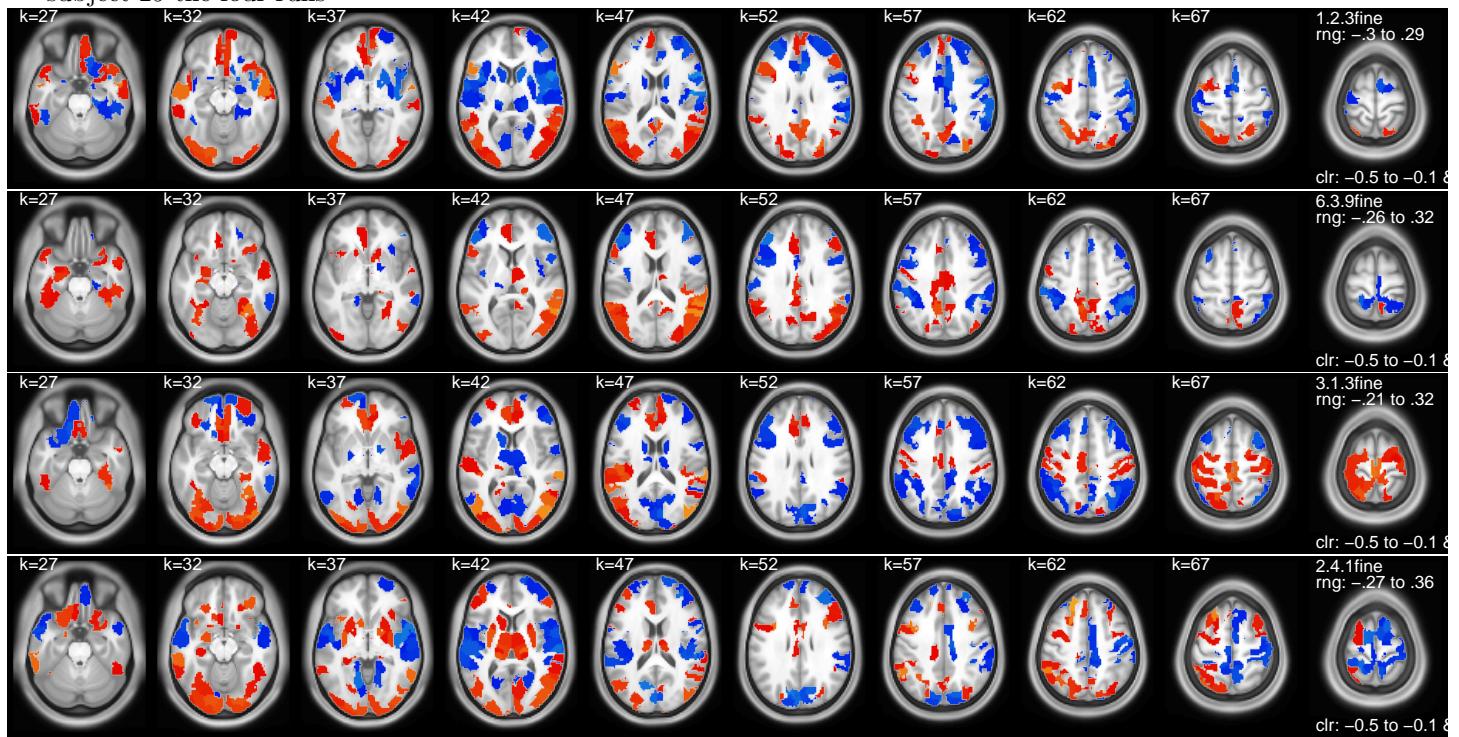
subject 27 the four runs



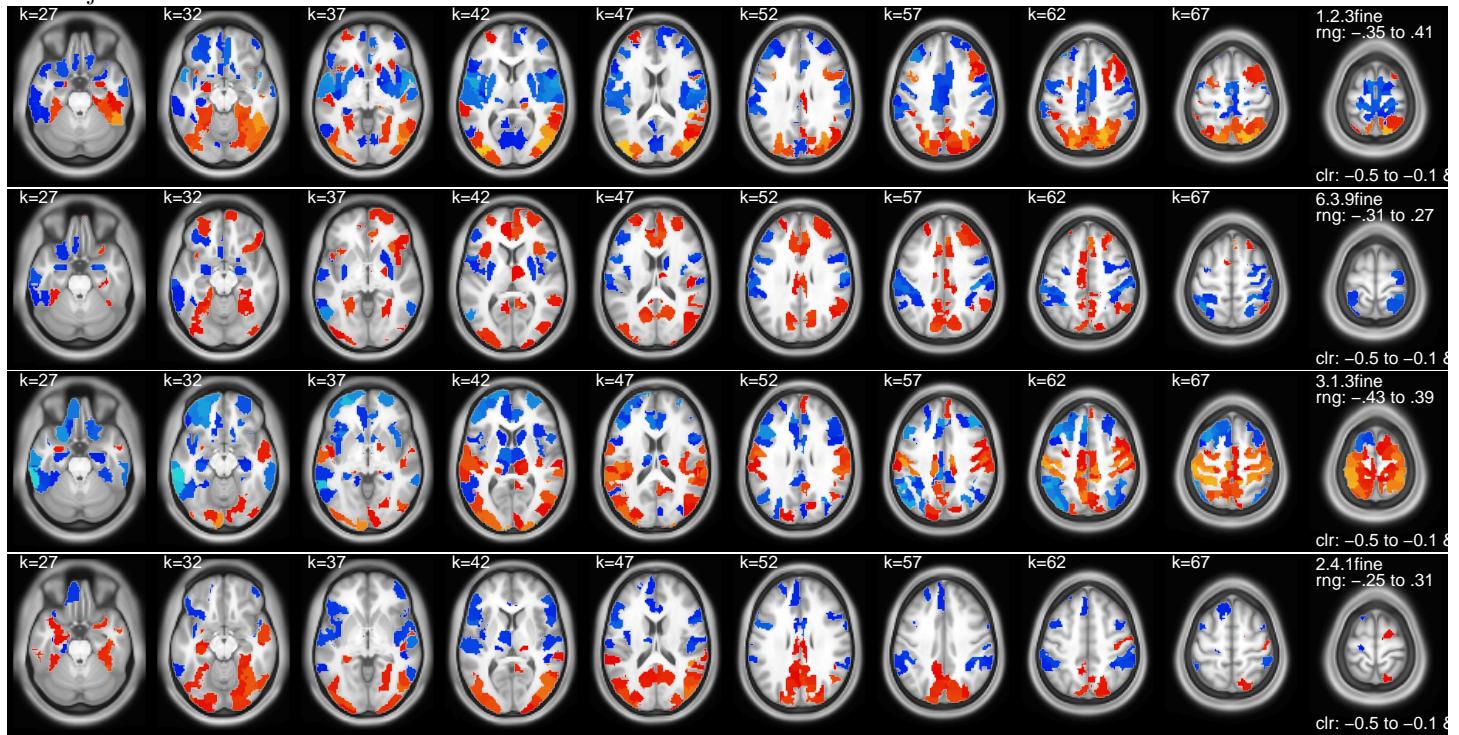
subject 28 the four runs



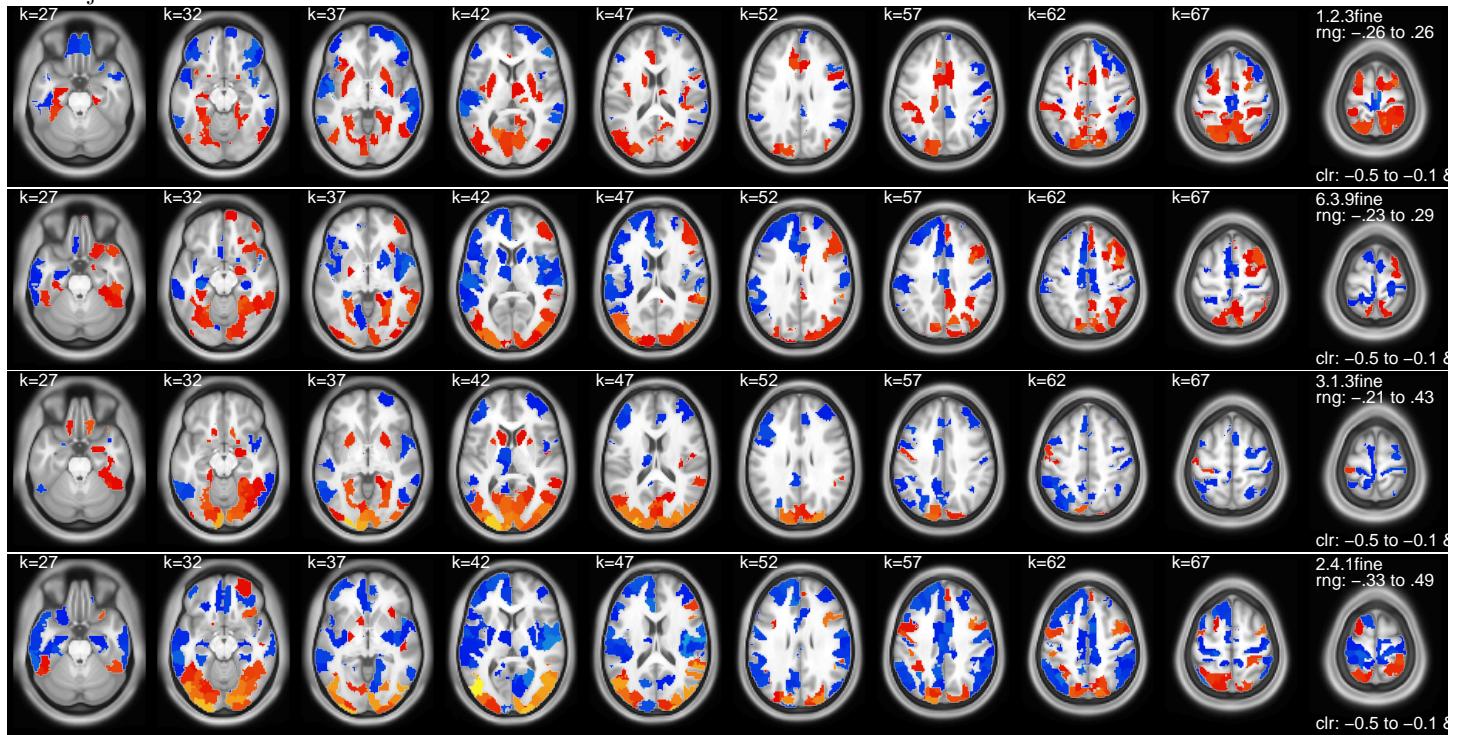
subject 29 the four runs



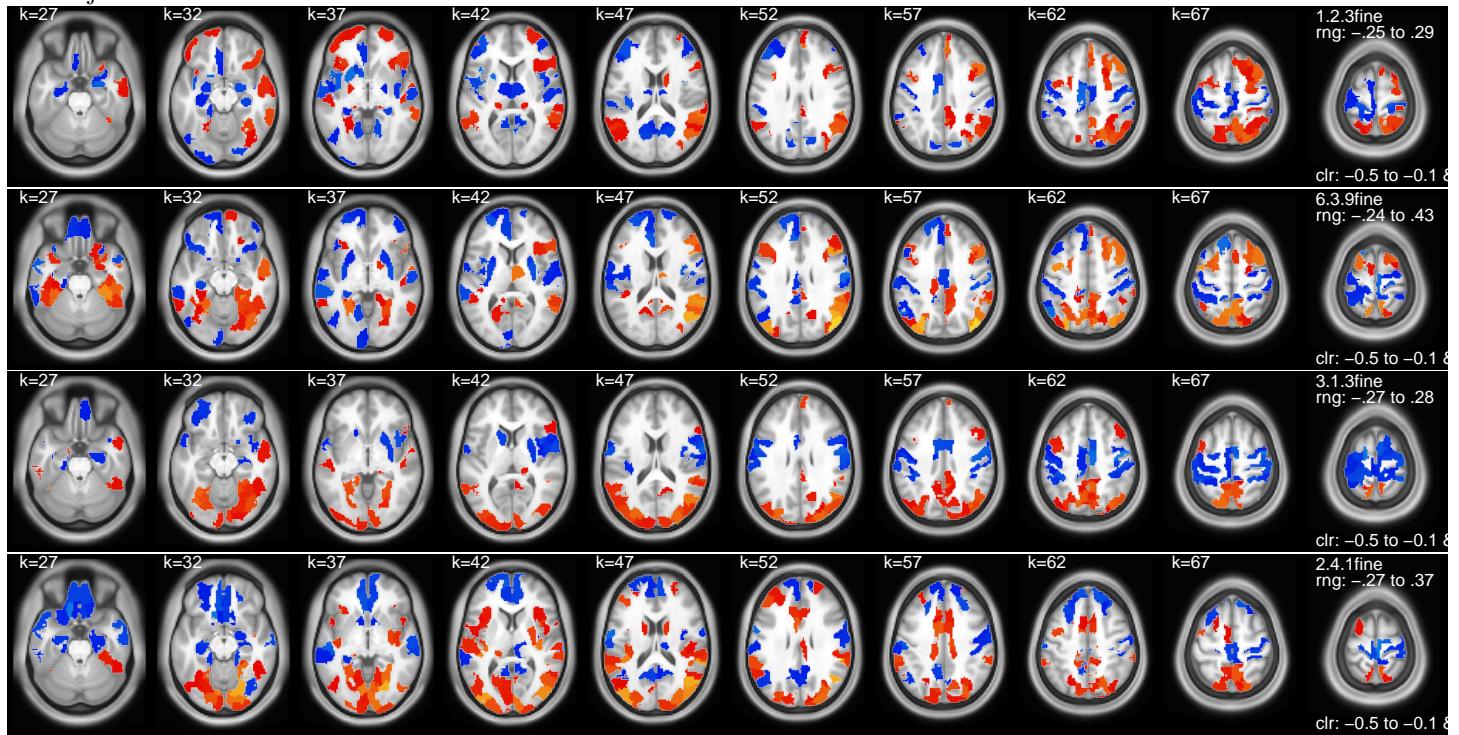
subject 30 the four runs



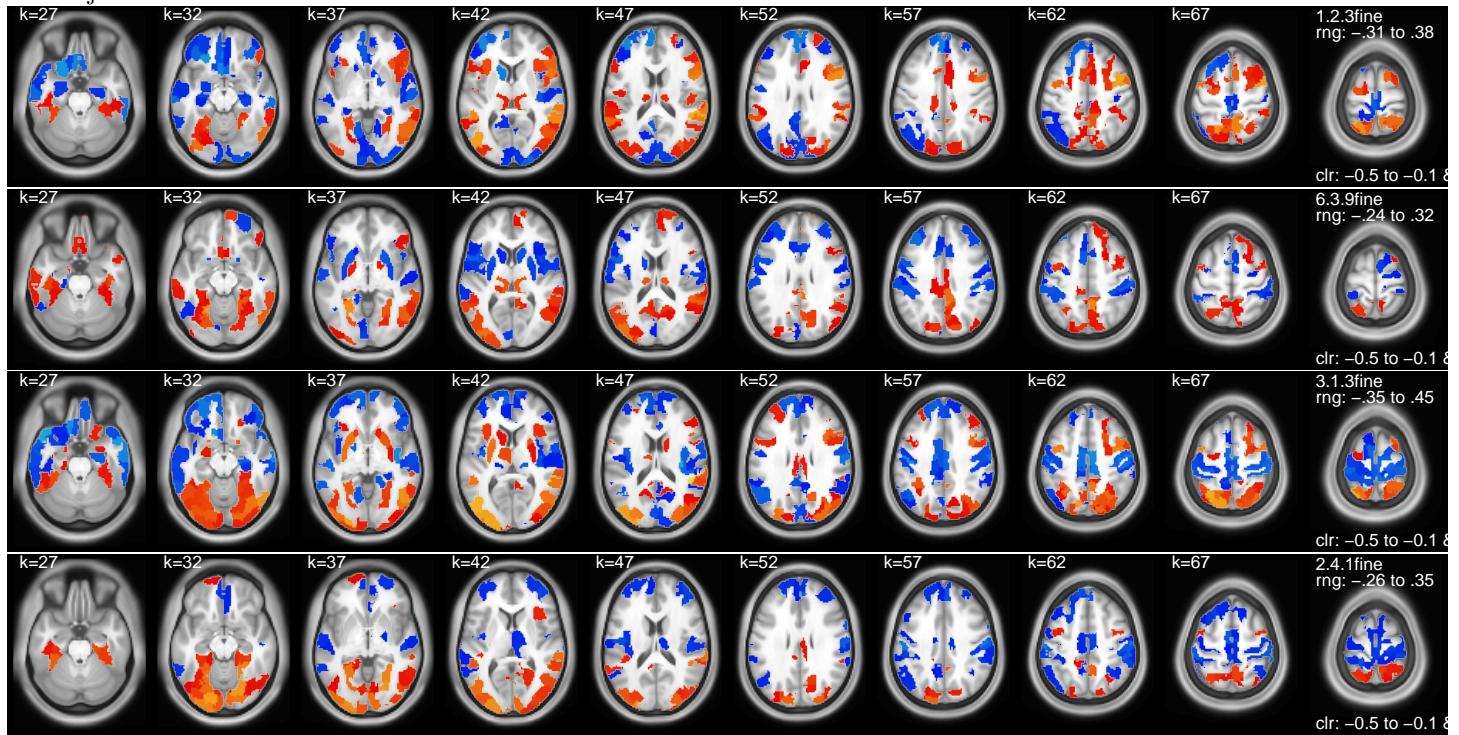
subject 31 the four runs



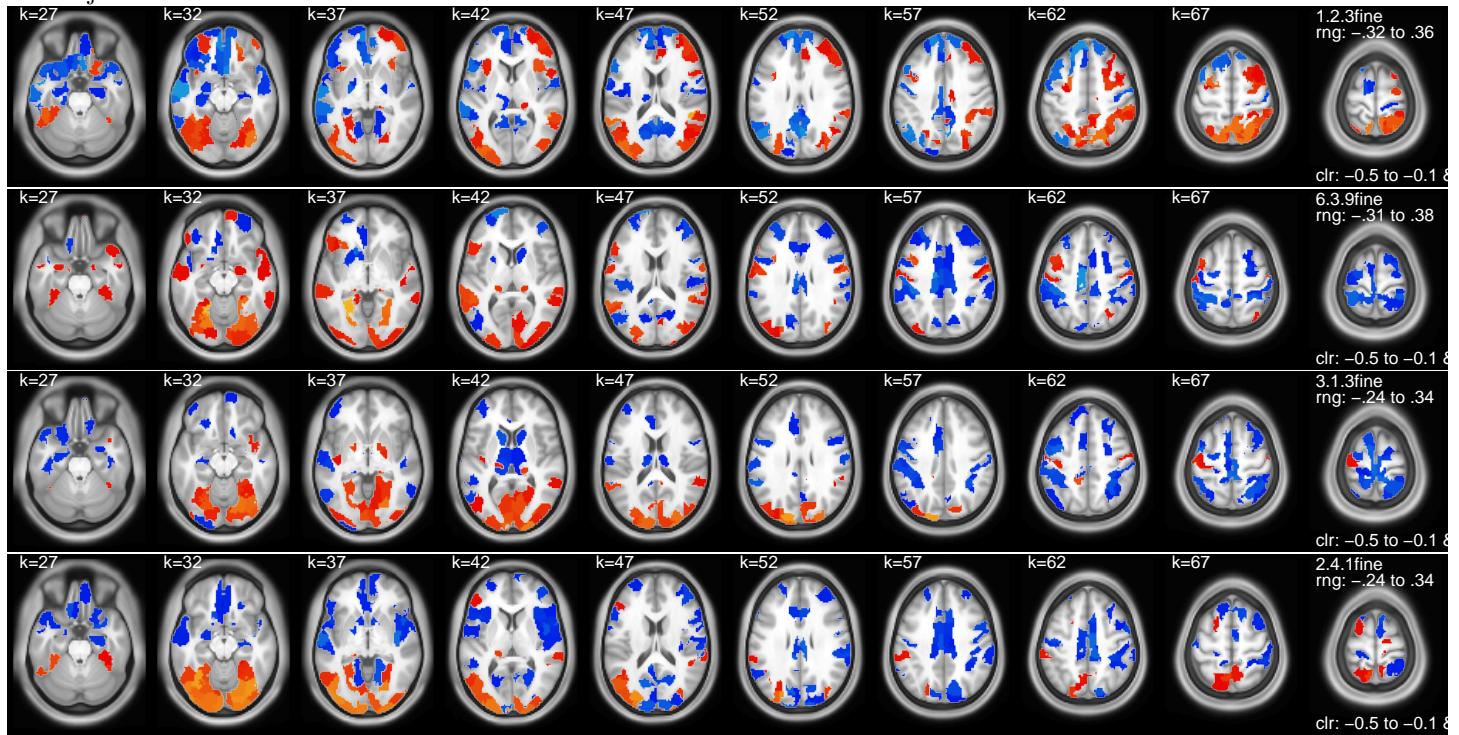
subject 32 the four runs



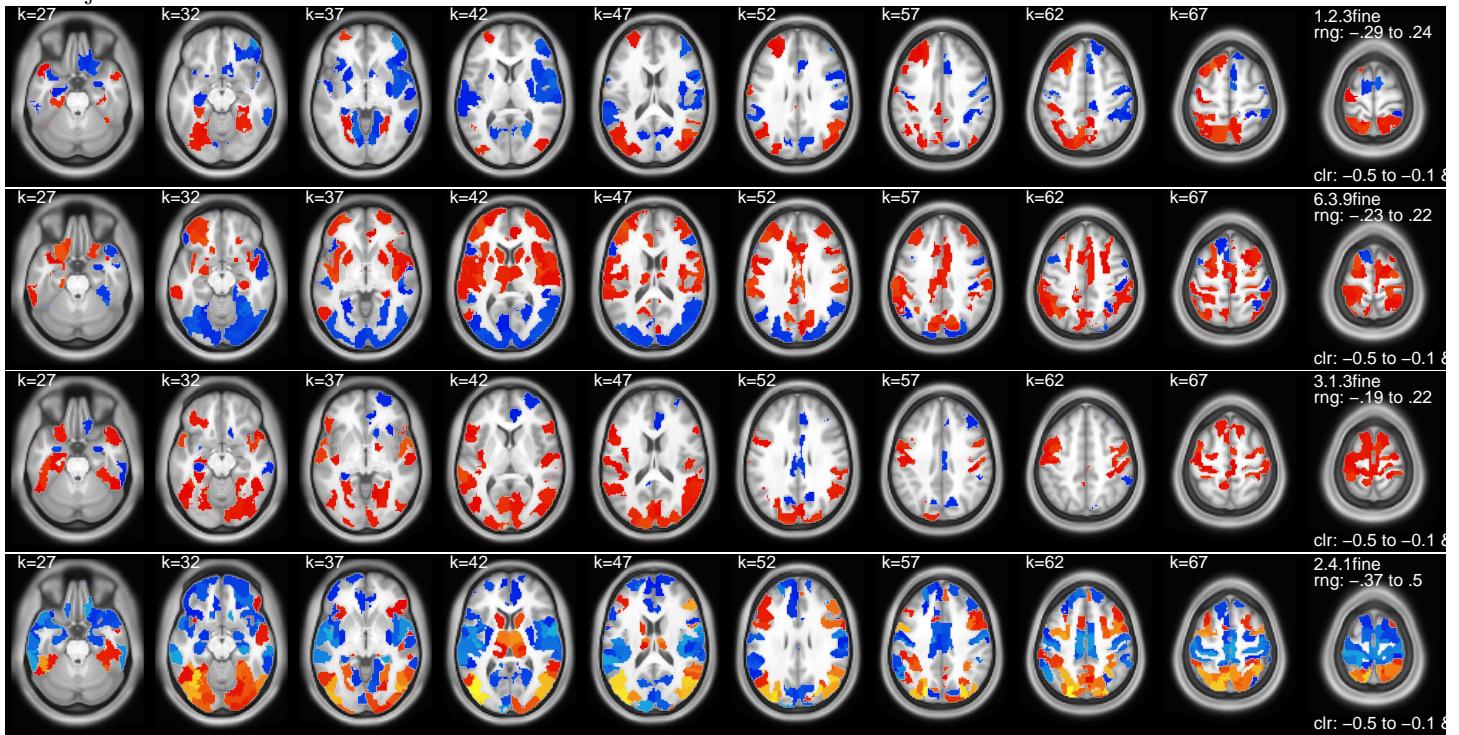
subject 33 the four runs



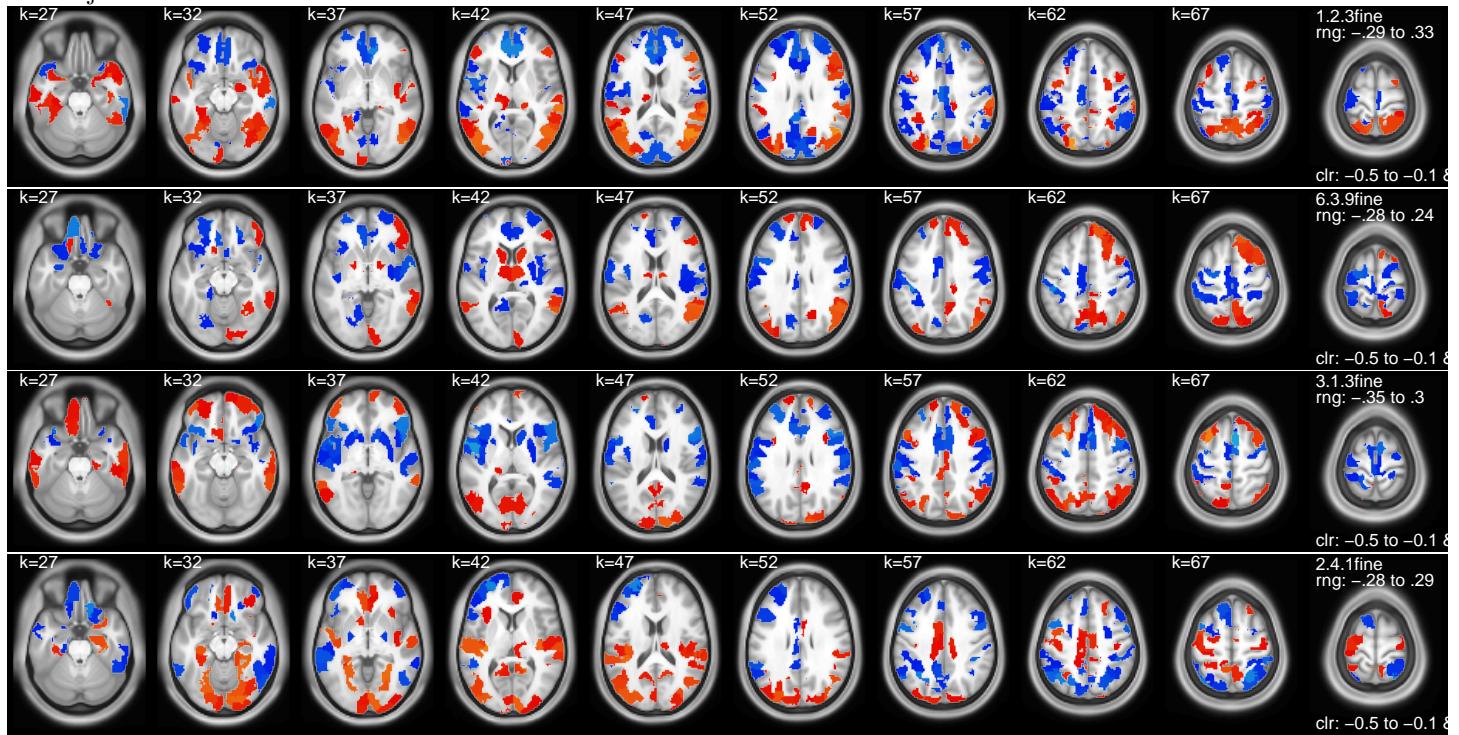
subject 34 the four runs



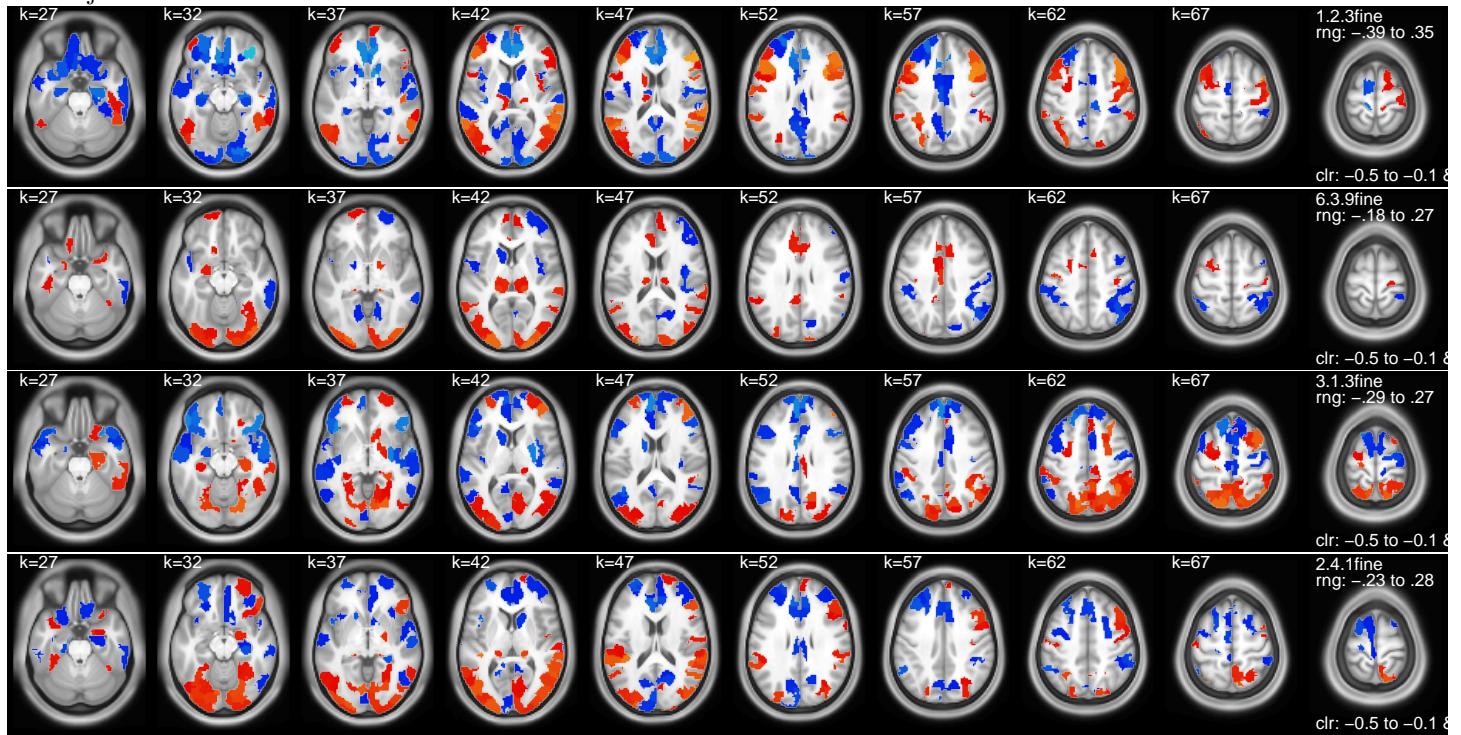
subject 35 the four runs



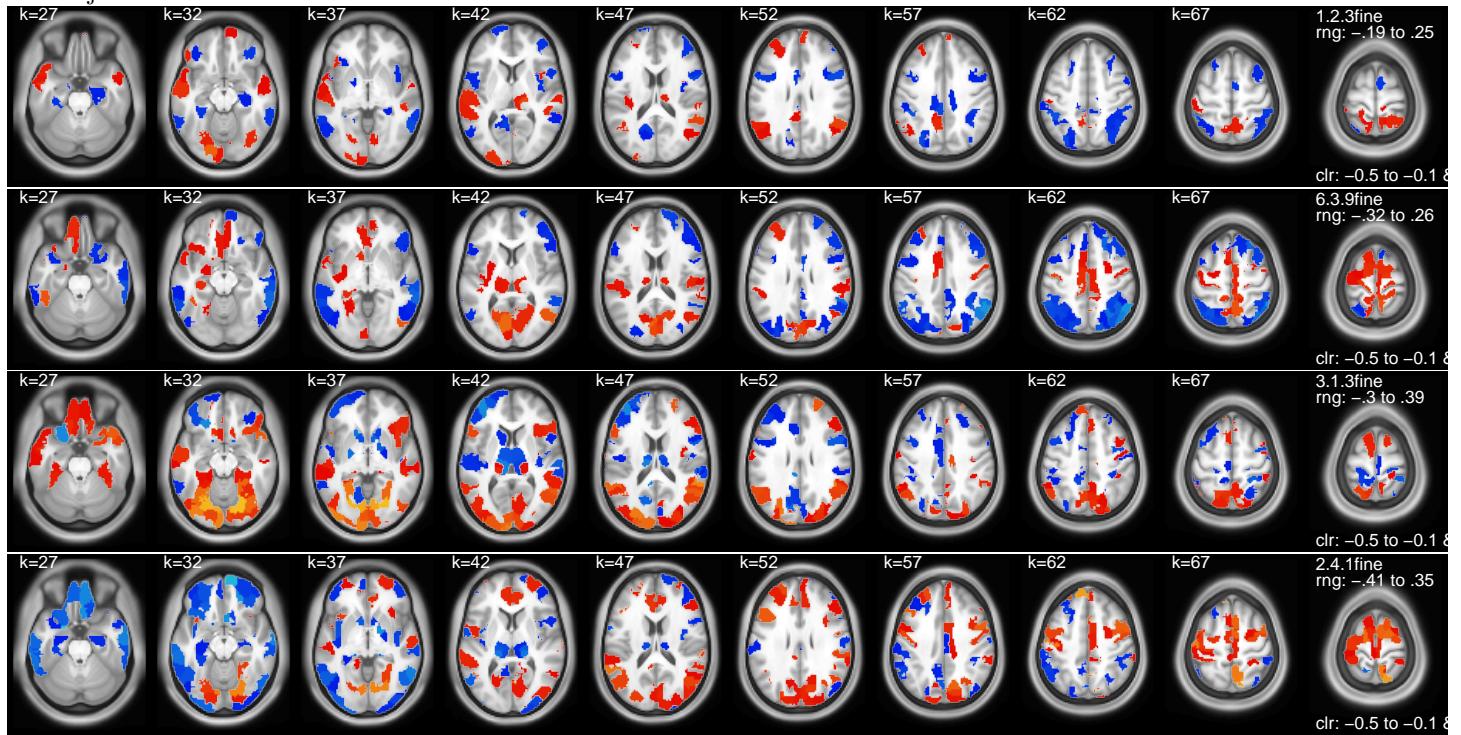
subject 36 the four runs



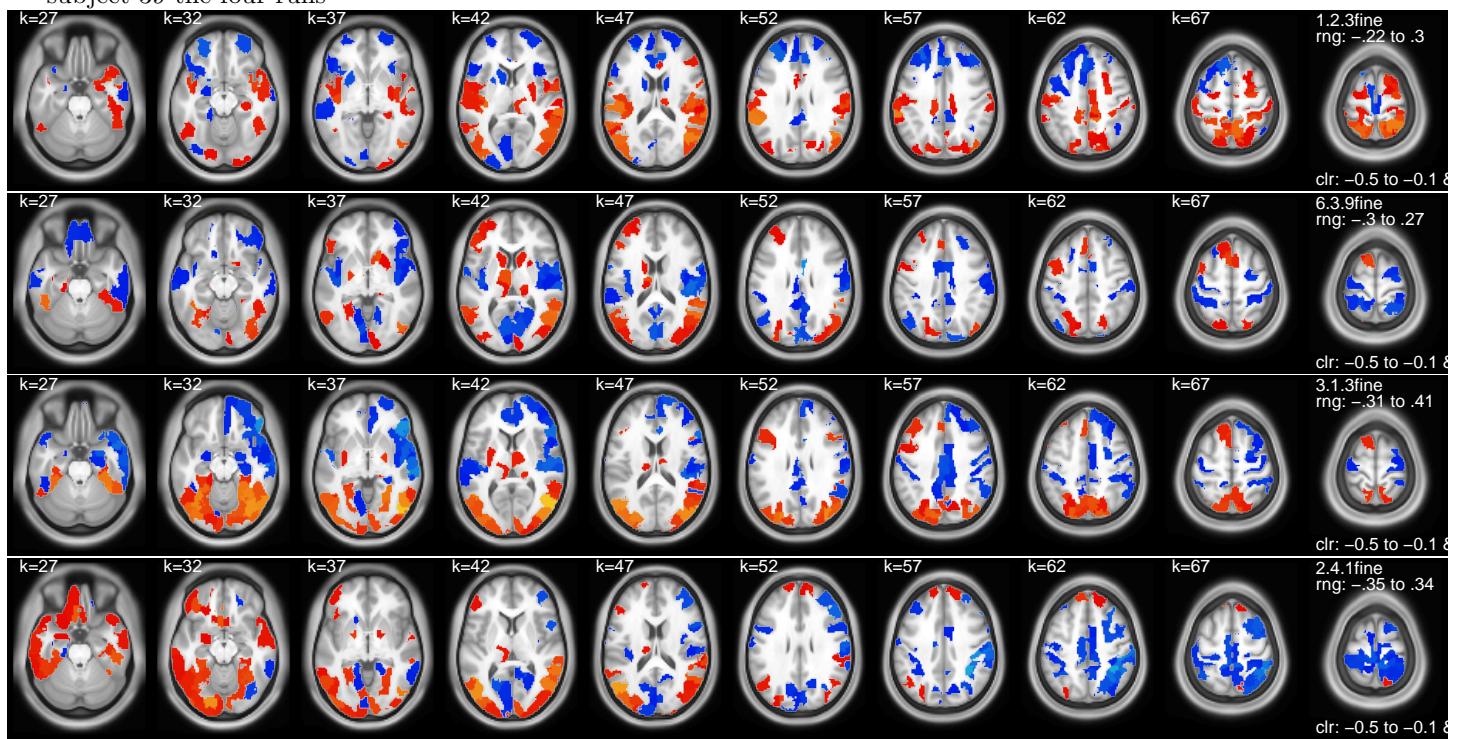
subject 37 the four runs



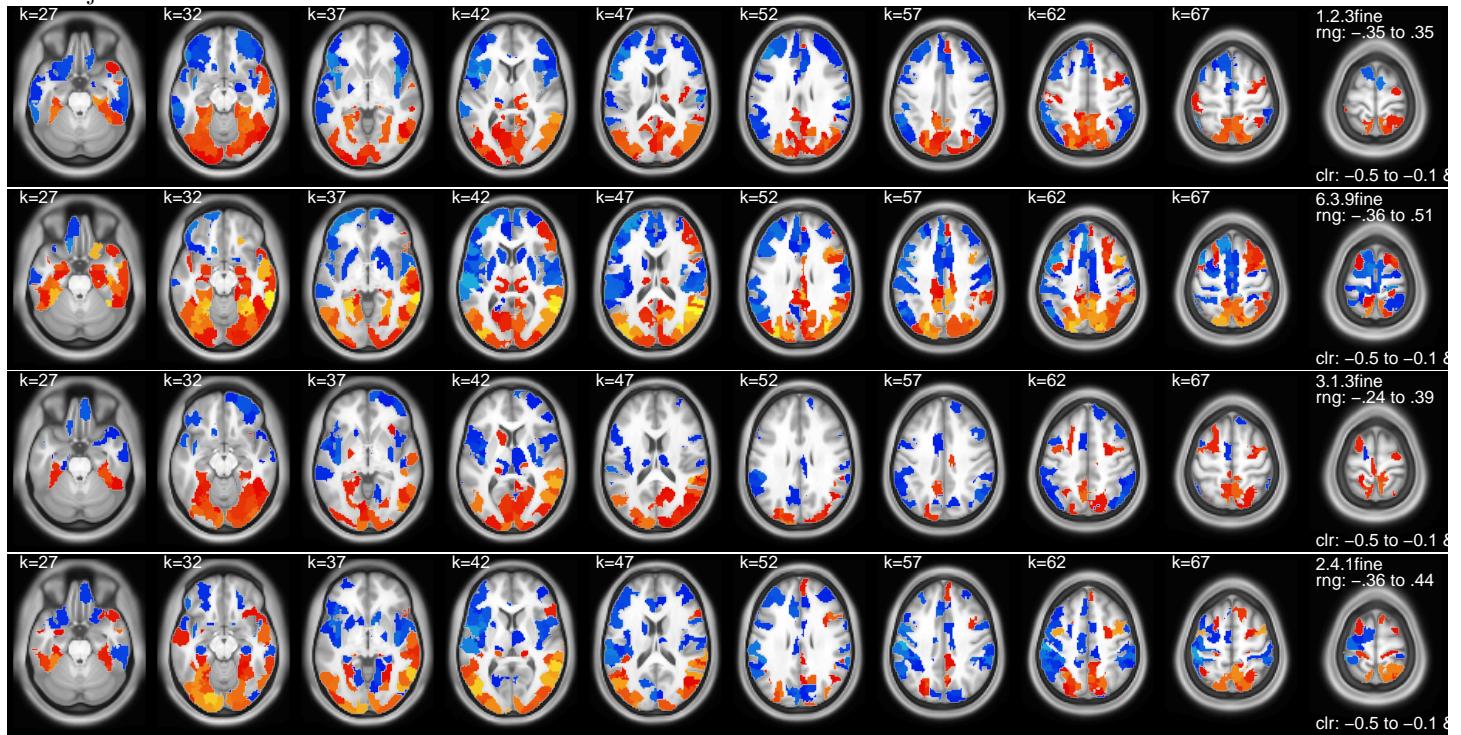
subject 38 the four runs



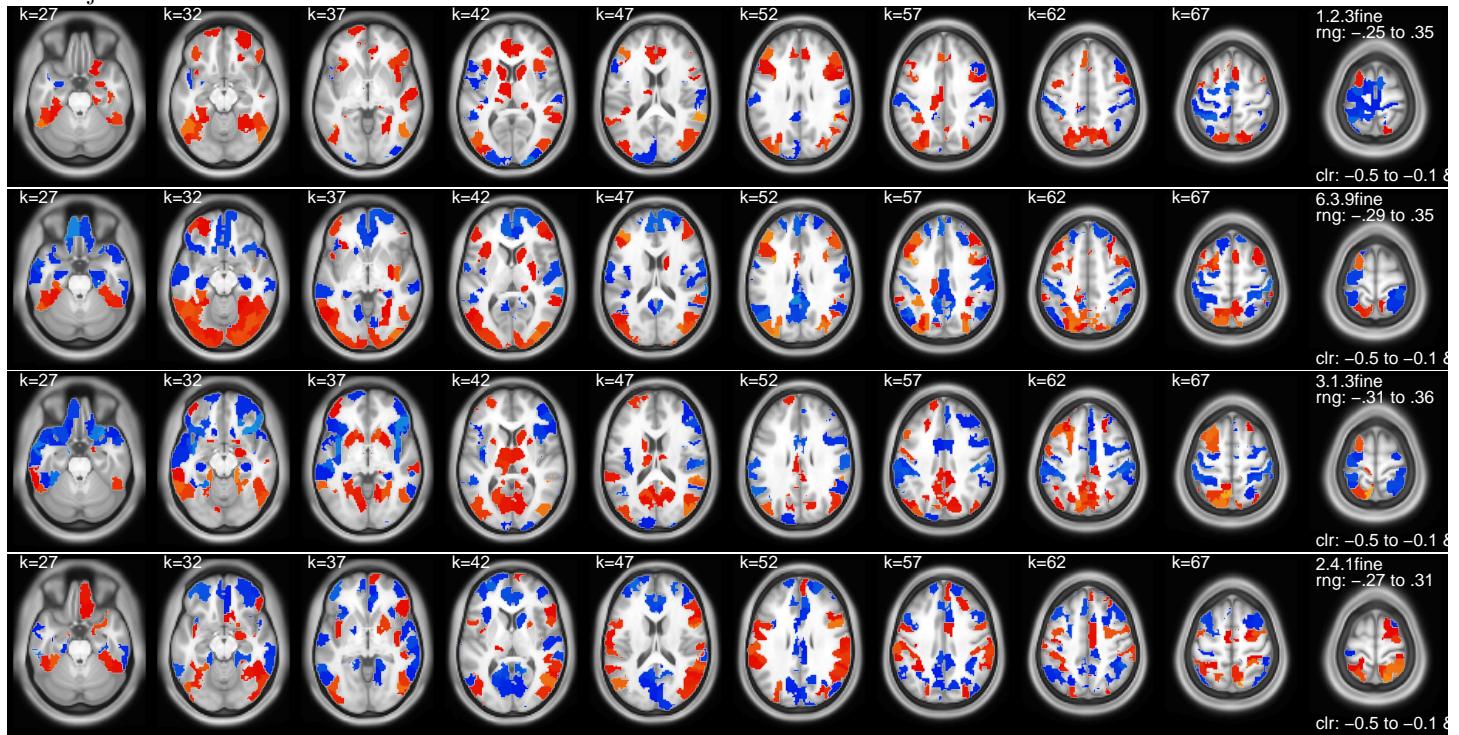
subject 39 the four runs



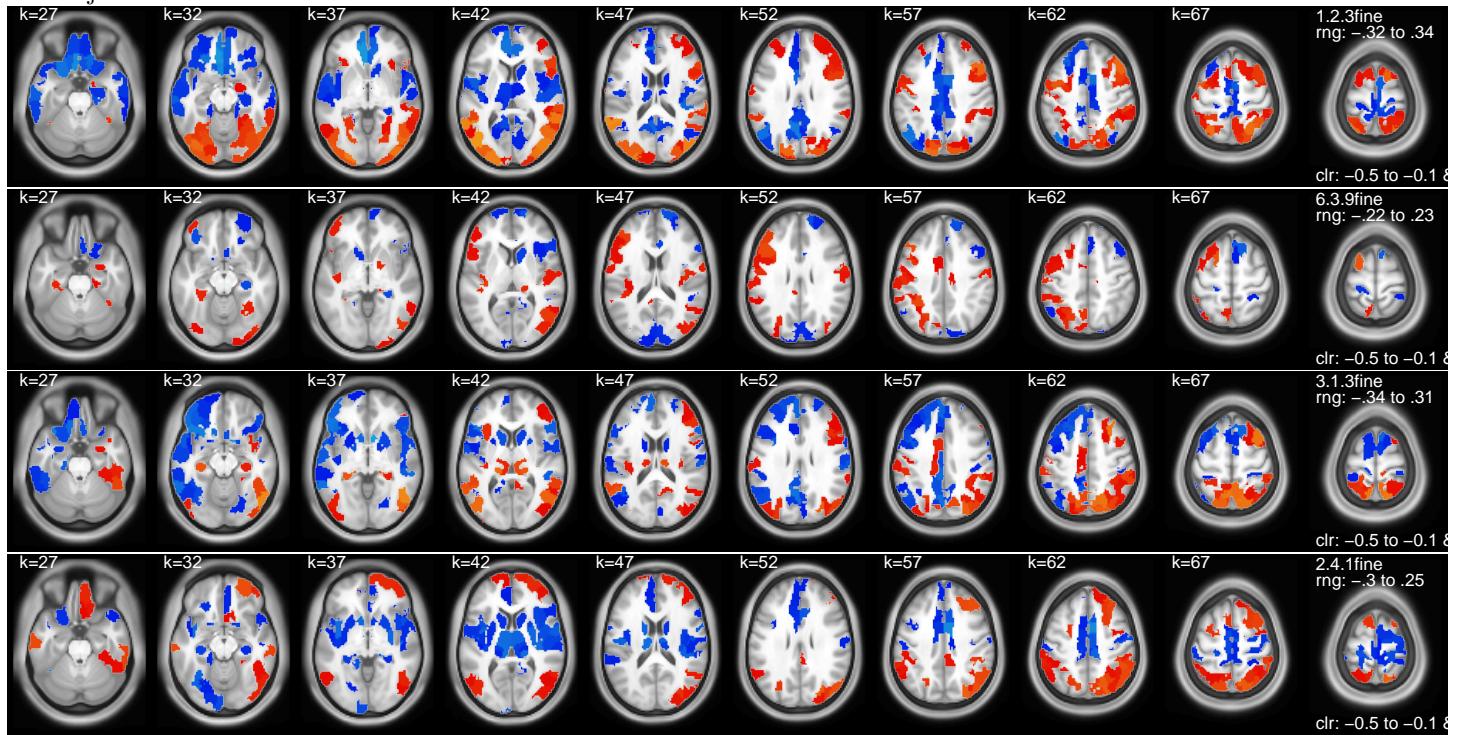
subject 40 the four runs



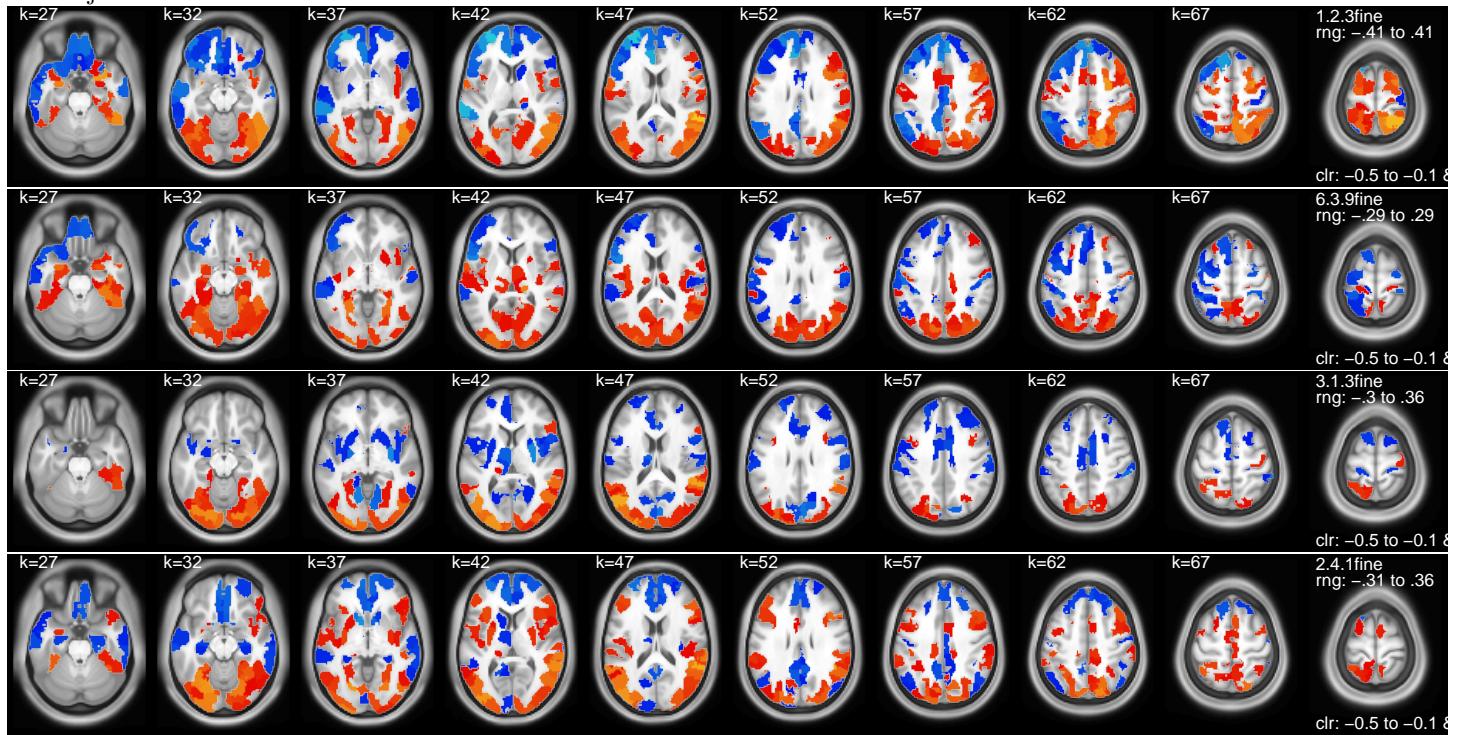
subject 41 the four runs



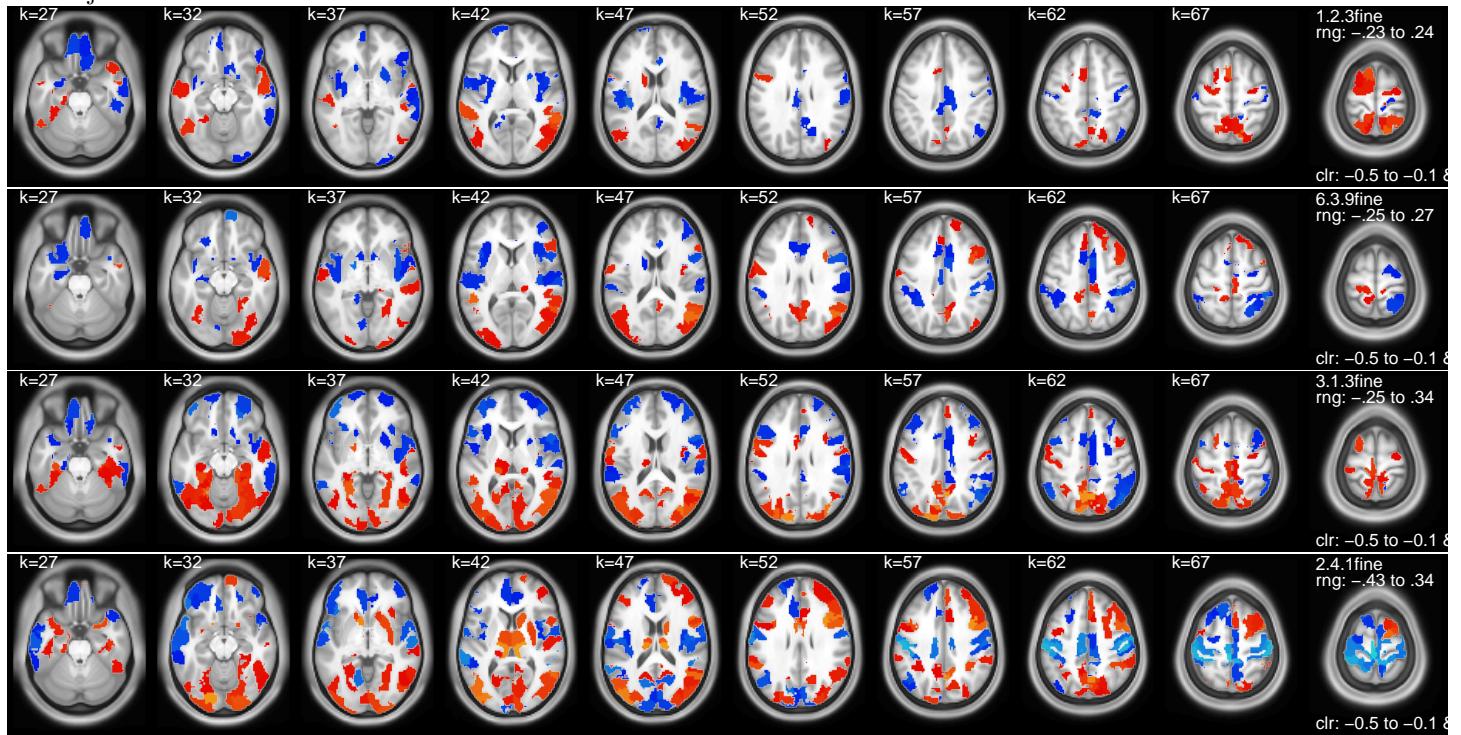
subject 42 the four runs



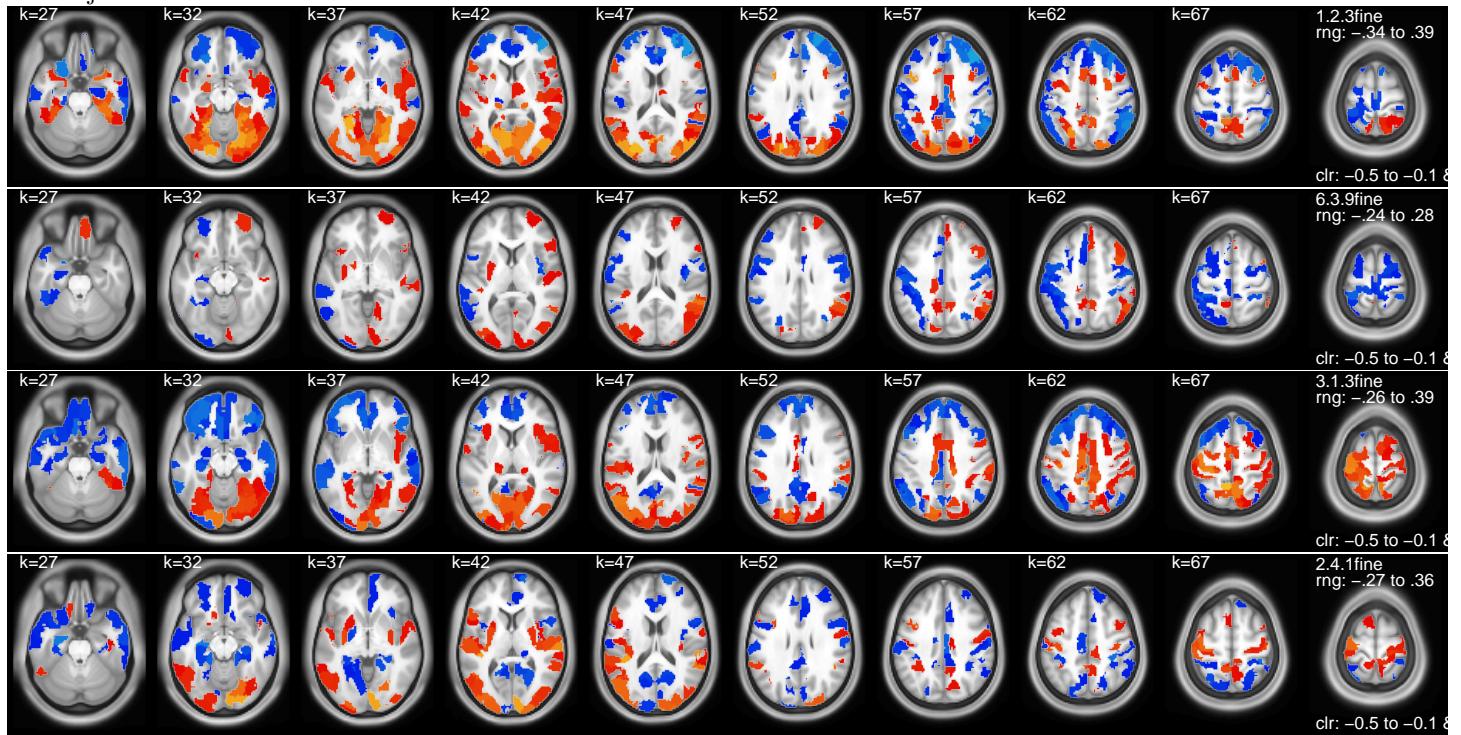
subject 43 the four runs



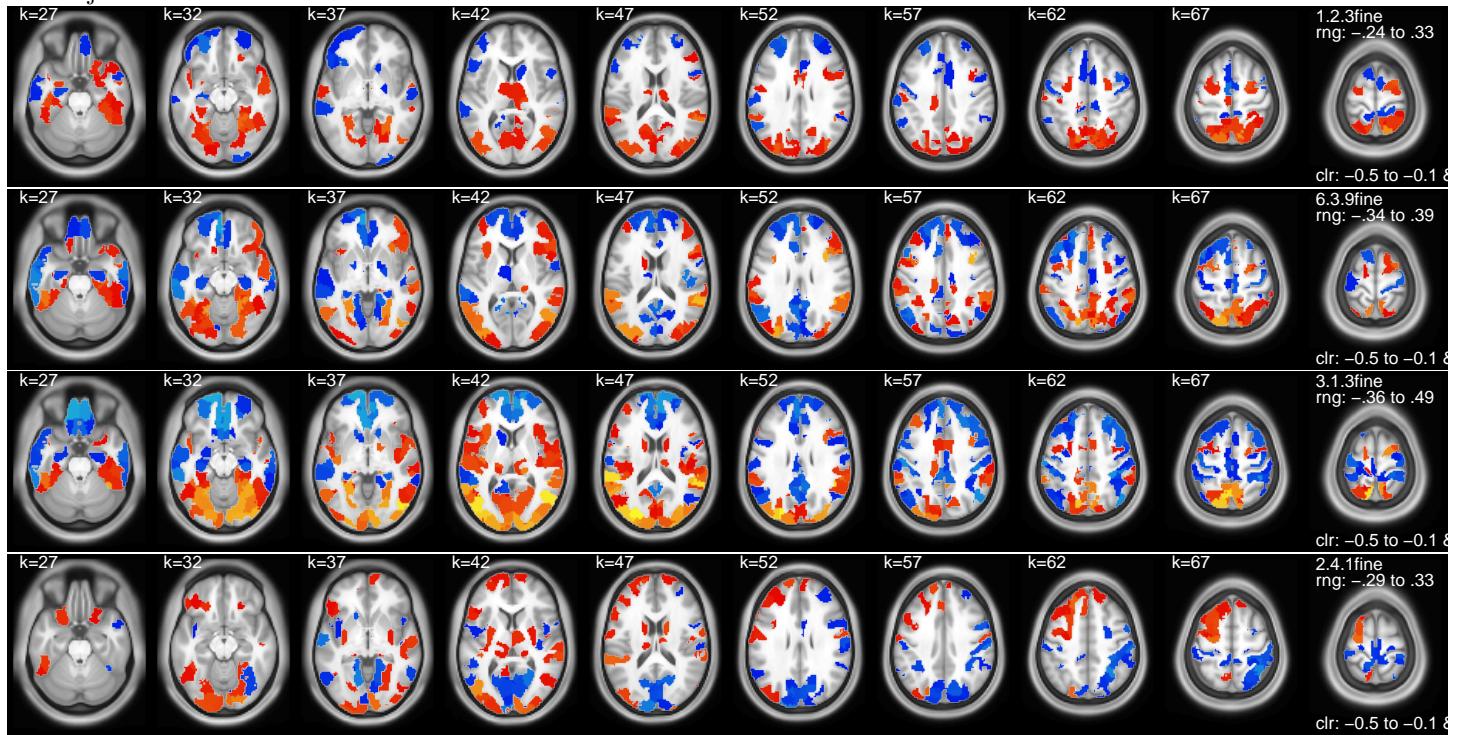
subject 44 the four runs



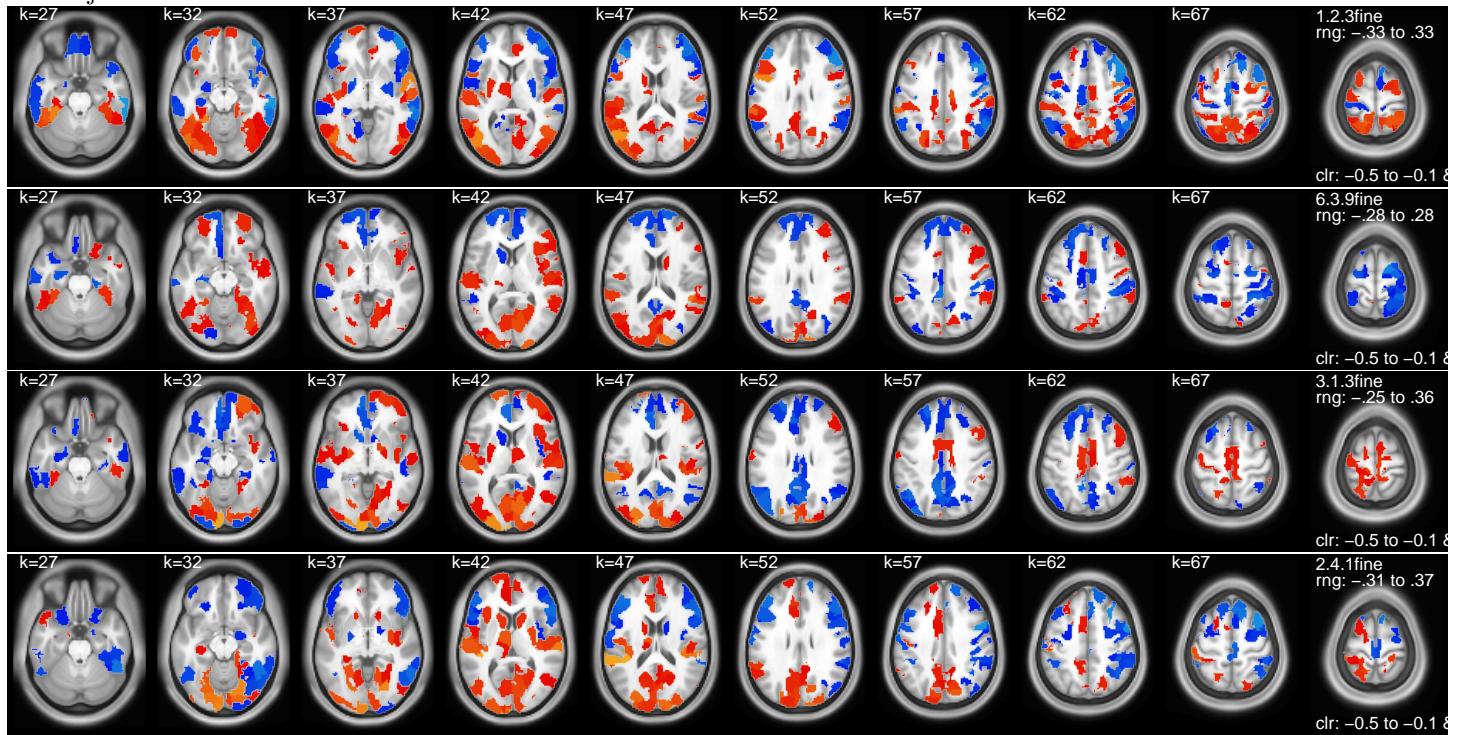
subject 45 the four runs



subject 46 the four runs

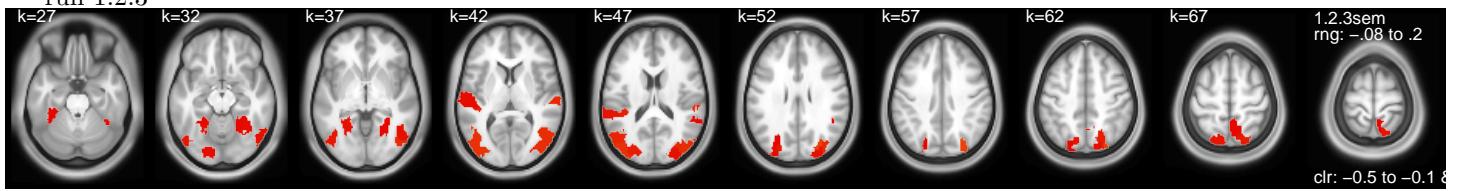


subject 47 the four runs

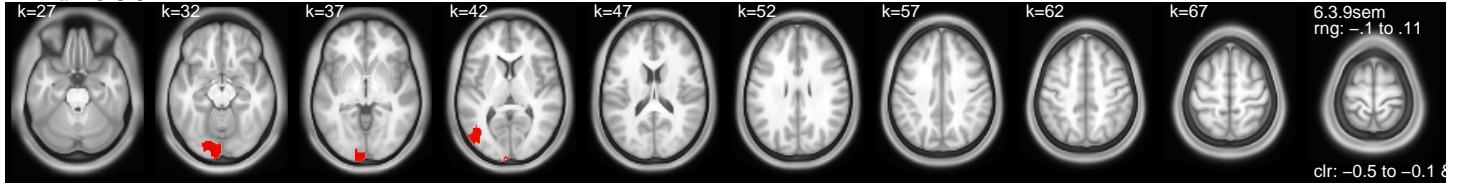


plot sem median correlations with parcel timeseries

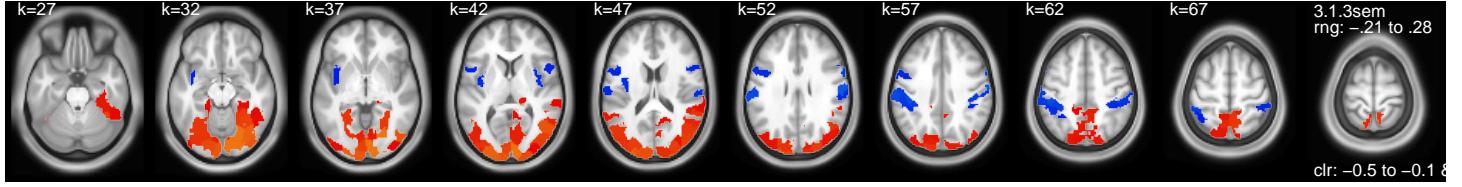
run 1.2.3



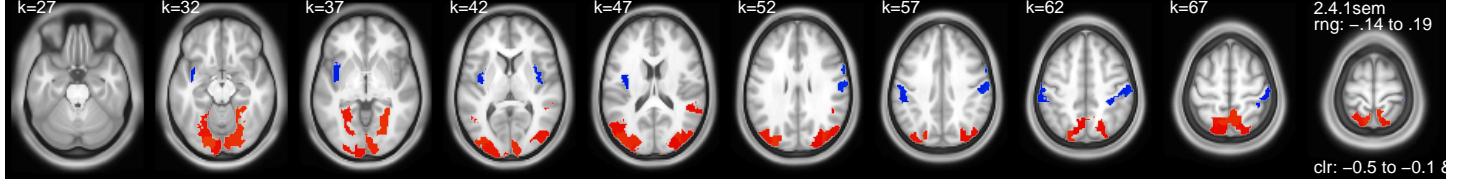
run 6.3.9



run 3.1.3

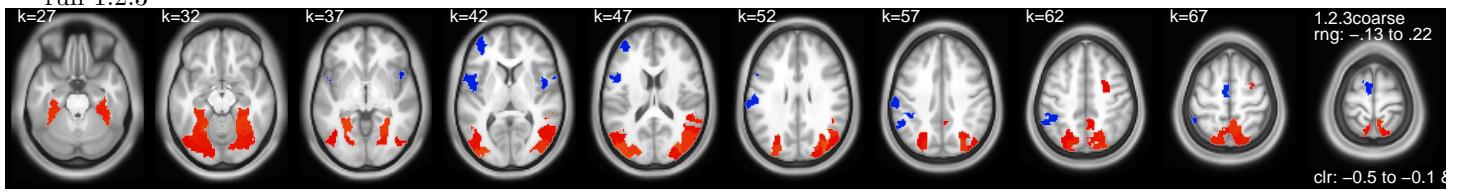


run 2.4.1

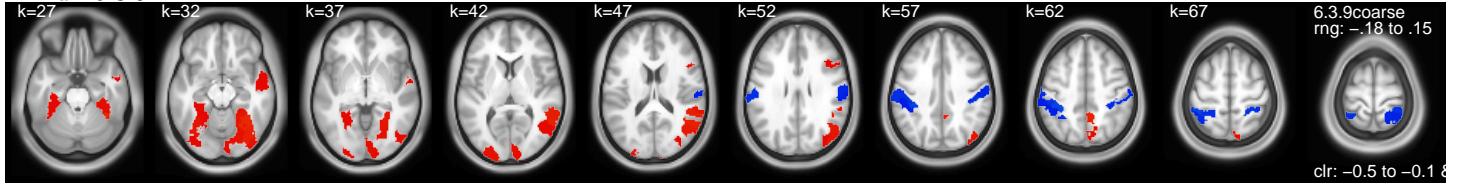


plot coarse median correlations with parcel timeseries

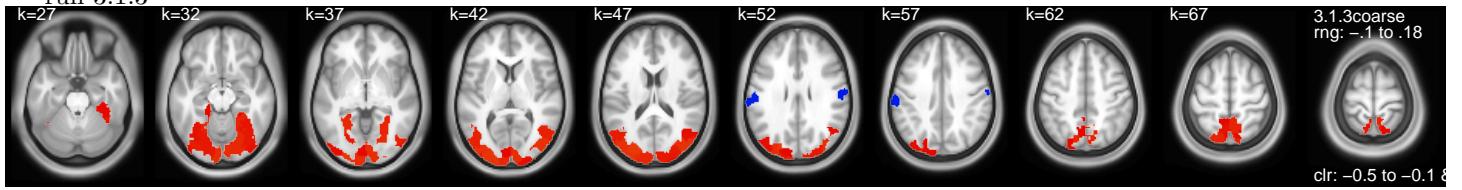
run 1.2.3



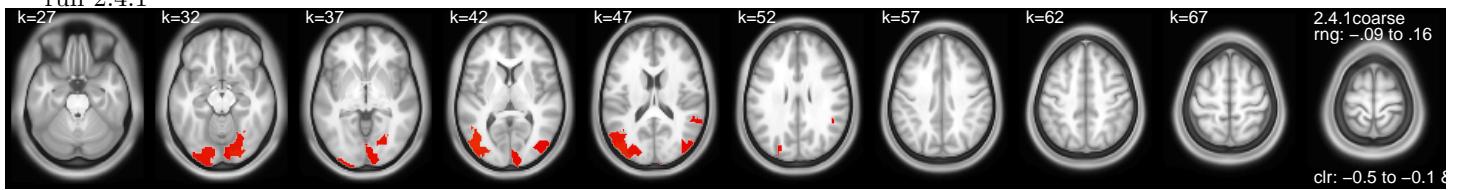
run 6.3.9



run 3.1.3

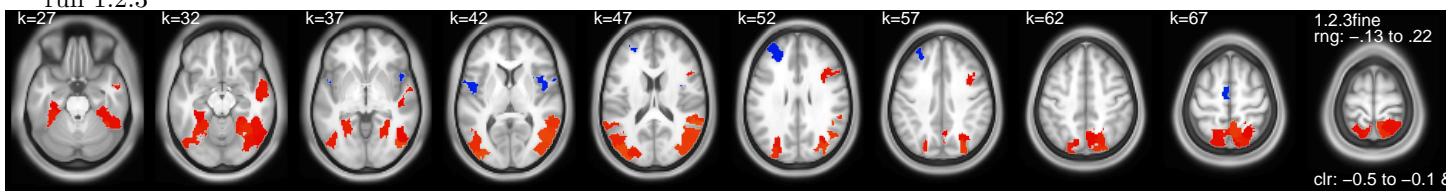


run 2.4.1



plot fine median correlations with parcel timeseries

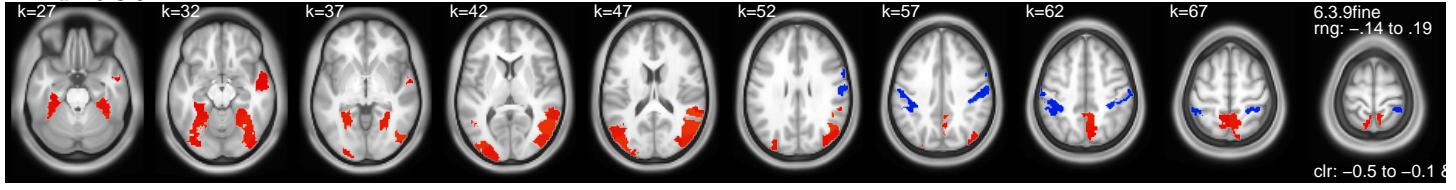
run 1.2.3



1.2.3fine  
rng: -.13 to .22

clr: -0.5 to -0.18

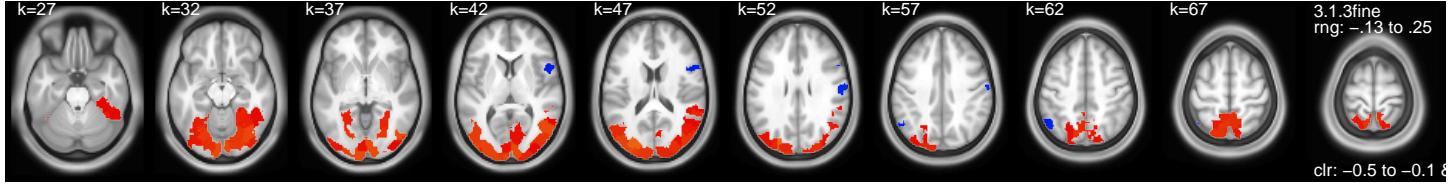
run 6.3.9



6.3.9fine  
rng: -.14 to .19

clr: -0.5 to -0.18

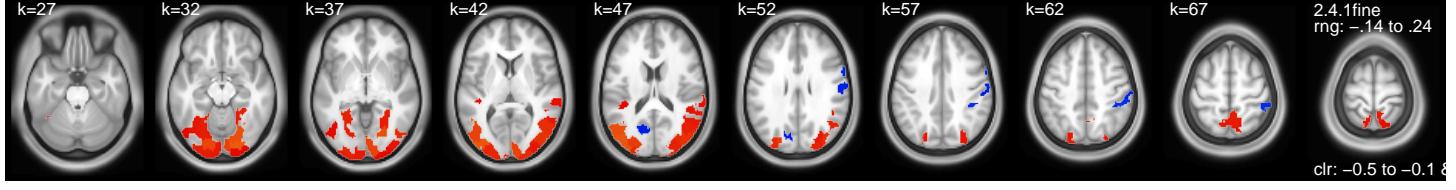
run 3.1.3



3.1.3fine  
rng: -.13 to .25

clr: -0.5 to -0.18

run 2.4.1



2.4.1fine  
rng: -.14 to .24

clr: -0.5 to -0.18