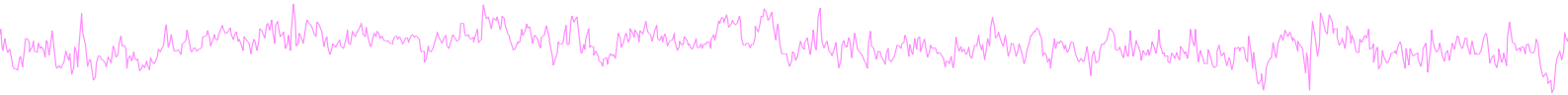
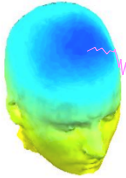


STUDY design and plotting overview



STEP 1

Build a STUDY

STEP 2

Build design(s)

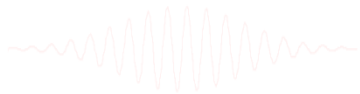
STEP 3

Precompute the data

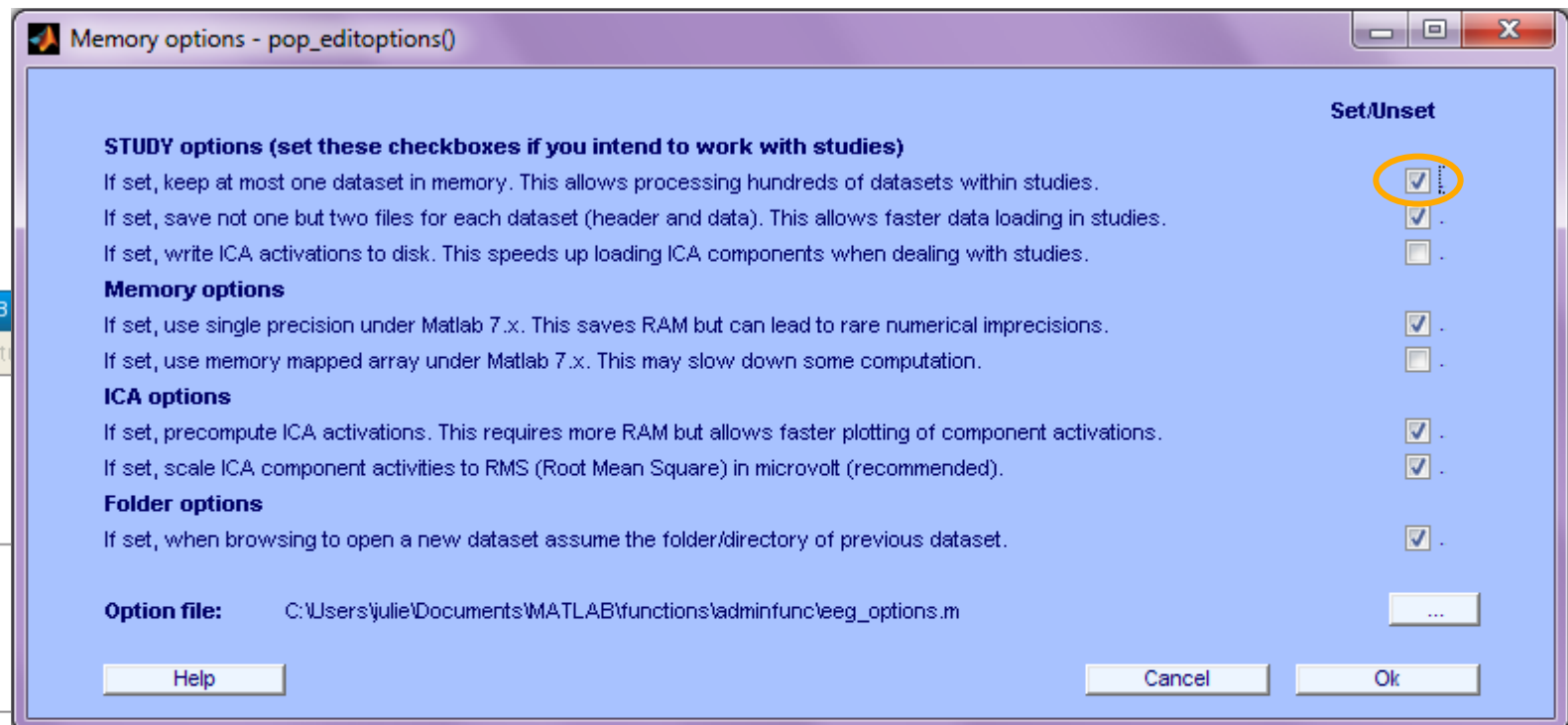
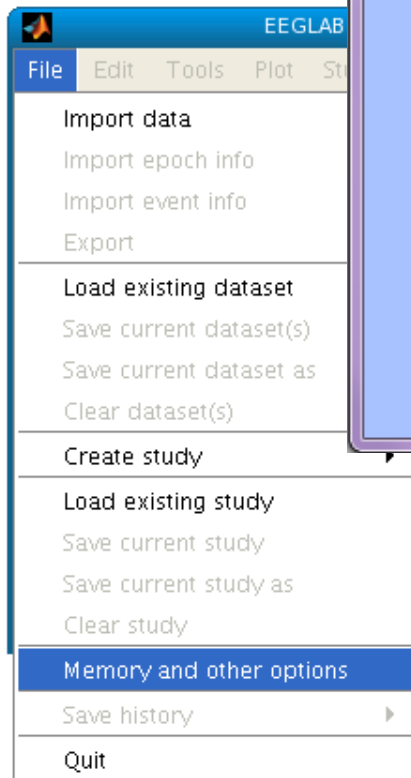
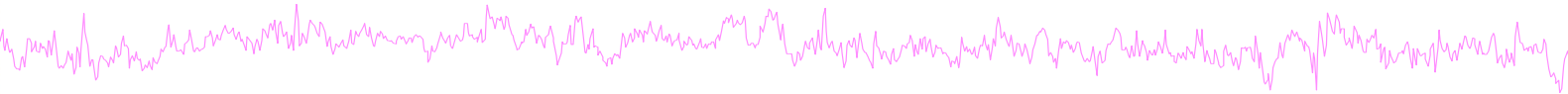
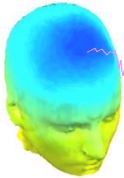
STEP 4

Plot the data

Exercise...

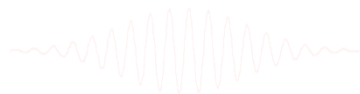
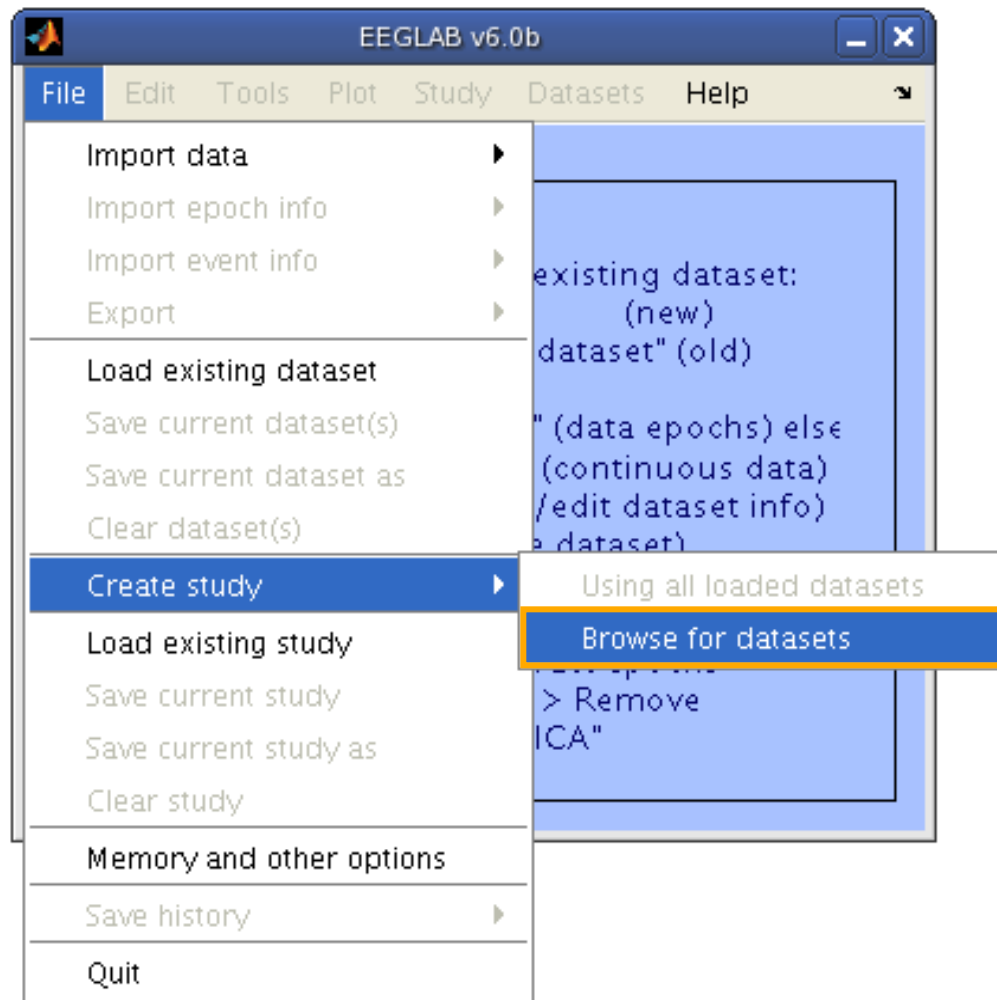
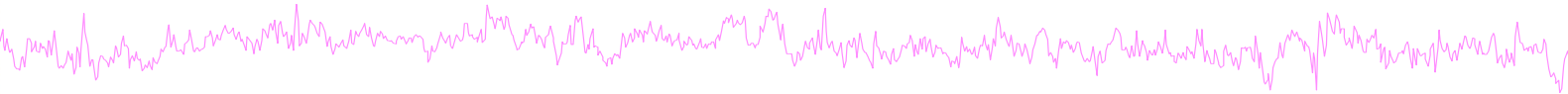
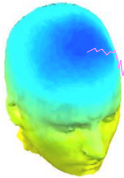


Memory options

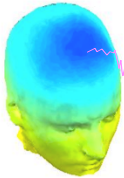


**Memory options should change
when using STUDY vs single dataset**

Build a STUDY



Build a STUDY, cont'd



Create a new STUDY set -- pop_study()

Create a new STUDY set

STUDY set name:

STUDY set task name:

STUDY set notes:

	dataset filename	browse	subject	session	condition	group
1	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Select by r.v.

Important note: Removed datasets will not be saved before being deleted from EEGLAB memory

< Page 1 >

☒ Update dataset info - datasets stored on disk will be overwritten (unset = Keep study info set)

☐ Delete cluster information (to allow loading new datasets, set new components for clustering)

Help

Choose dataset to add to STUDY -- pop_study()

Look in: S01

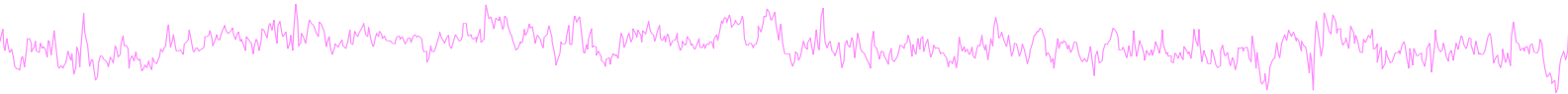
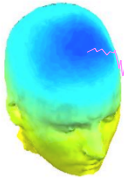
Name	Date modified	Type
Ignore.set	11/8/2009 7:06 PM	SET File
Memorize.set	11/8/2009 7:06 PM	SET File
Probe.set	11/12/2009 10:02 ...	SET File

File name:

Files of type: (*.set, *.SET)

Open Cancel

Edit dataset info



Create a new STUDY set -- pop_study()

Edit STUDY set information - remember to save changes

STUDY set name:

STUDY set task name:

STUDY set notes:

	dataset filename	browse	subject	session	condition	group	Select by r.v.	
1	/Volumes/donnees/data/STU...	...	S01	<input type="checkbox"/>	memorize		All comp.	Clear
2	/Volumes/donnees/data/STU...	...	S01	<input type="checkbox"/>	ignore		All comp.	Clear
3	/Volumes/donnees/data/STU...	...	S01	<input type="checkbox"/>	probe		All comp.	Clear
4	/Volumes/donnees/data/STU...	...	S02	<input type="checkbox"/>	memorize		All comp.	Clear
5	/Volumes/donnees/data/STU...	...	S02	<input type="checkbox"/>	ignore		All comp.	Clear
6	/Volumes/donnees/data/STU...	...	S02	<input type="checkbox"/>	probe		All comp.	Clear
7	/Volumes/donnees/data/STU...	...	S03	<input type="checkbox"/>	memorize		All comp.	Clear
8	/Volumes/donnees/data/STU...	...	S03	<input type="checkbox"/>	ignore		All comp.	Clear
9	/Volumes/donnees/data/STU...	...	S03	<input type="checkbox"/>	probe		All comp.	Clear
10	/Volumes/donnees/data/STU...	...	S04	<input type="checkbox"/>	memorize		All comp.	Clear

Important note: Removed datasets will not be saved before being deleted from EEGLAB memory

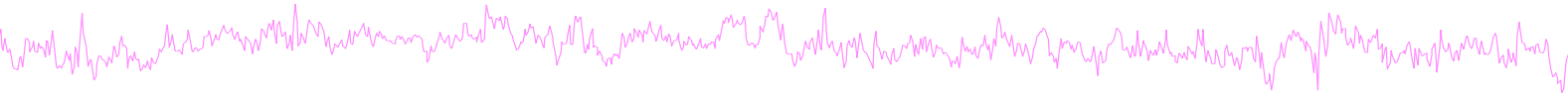
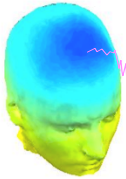
< Page 1 >

☐ Dataset info (condition, group, ...) differs from study info. [set] = Overwrite dataset info.

☒ Delete cluster information (to allow loading new datasets, set new components for clustering, etc.)

Help Cancel Ok

Experimental design



1x2 unpaired

Patients	Controls
Group A	Group B

1x2 paired

Stim A	Stim B

2x2 paired

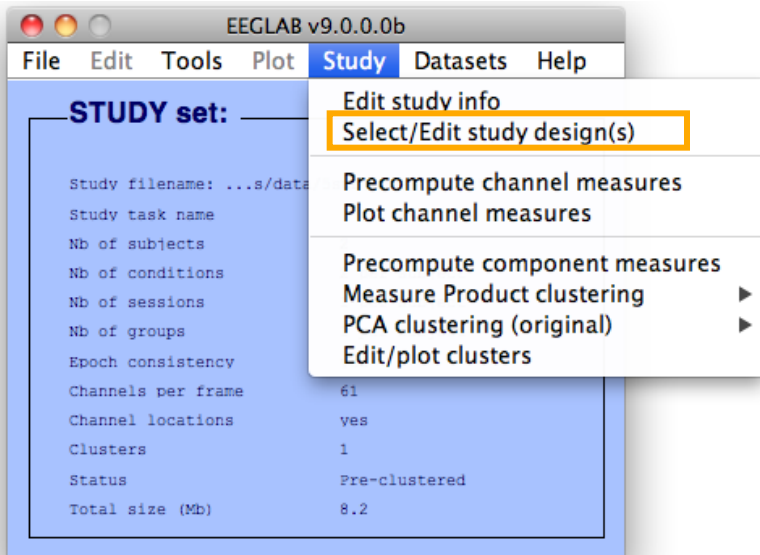
	Stim A	Stim B
Drug A		
Drug B		

2x2 unpaired

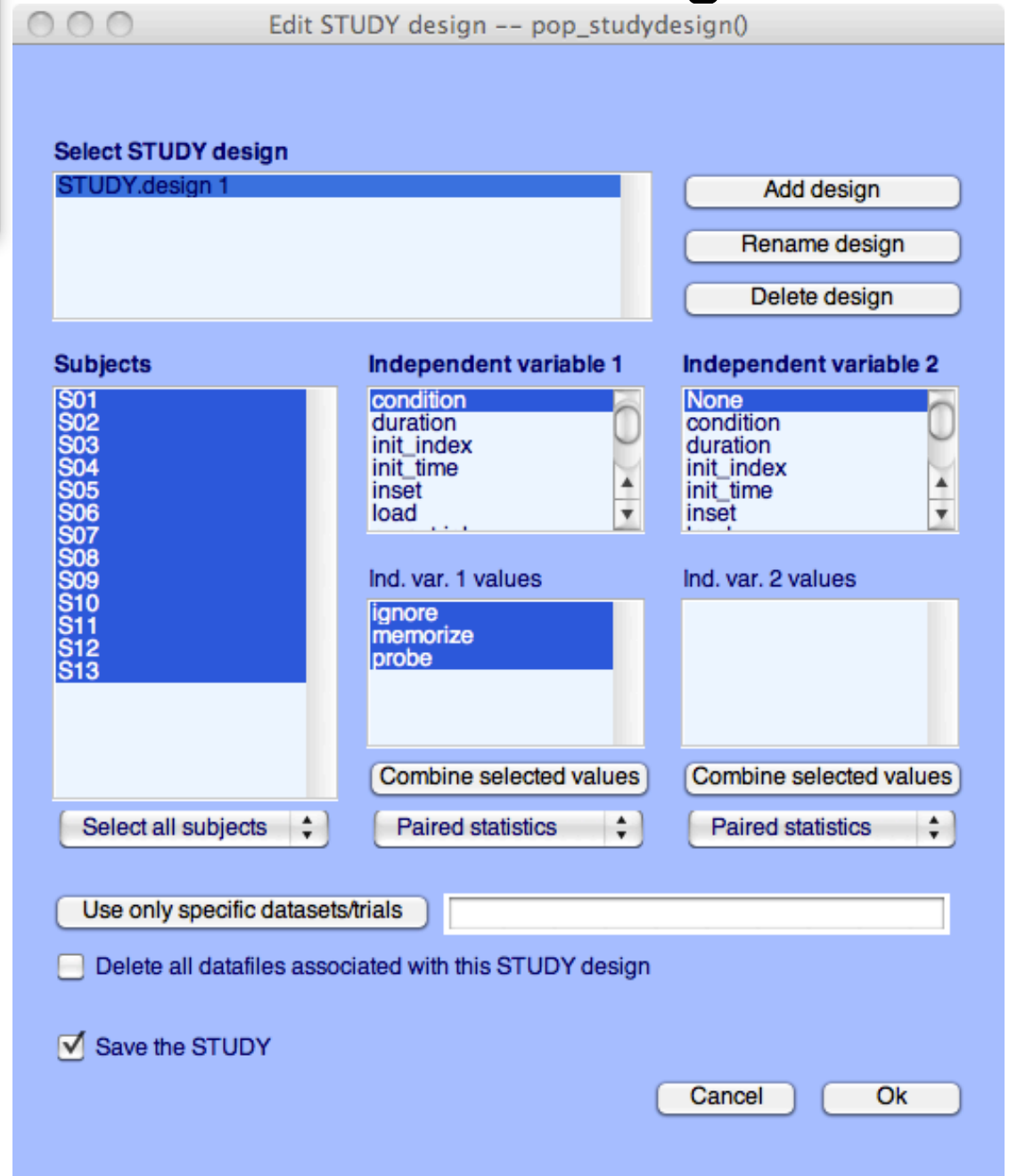
	Patients	Controls
Old	Group A	Group B
Young	Group C	Group D

2x2 paired & unpaired

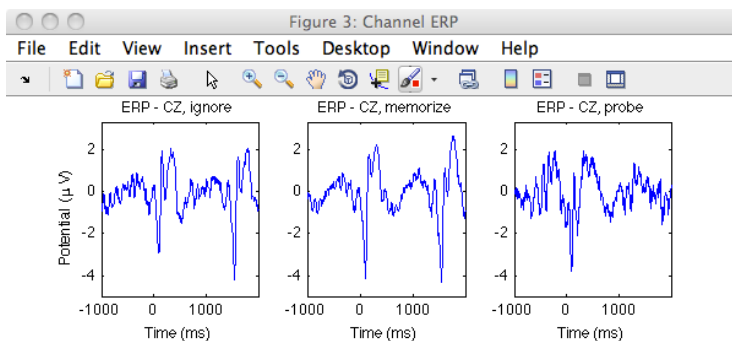
	Patients	Controls
Drug A		
Drug B		

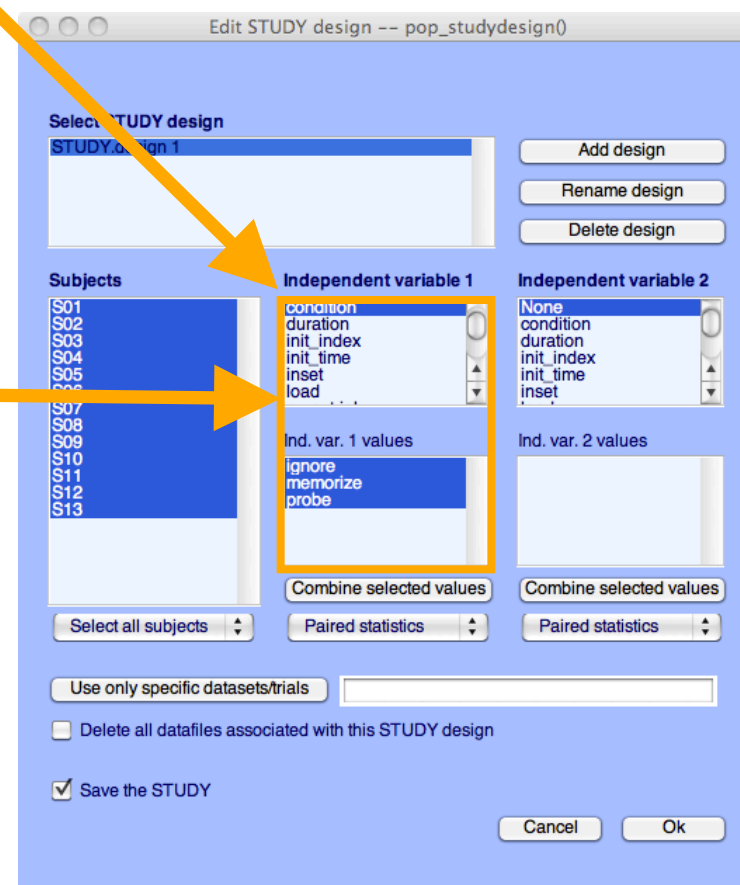
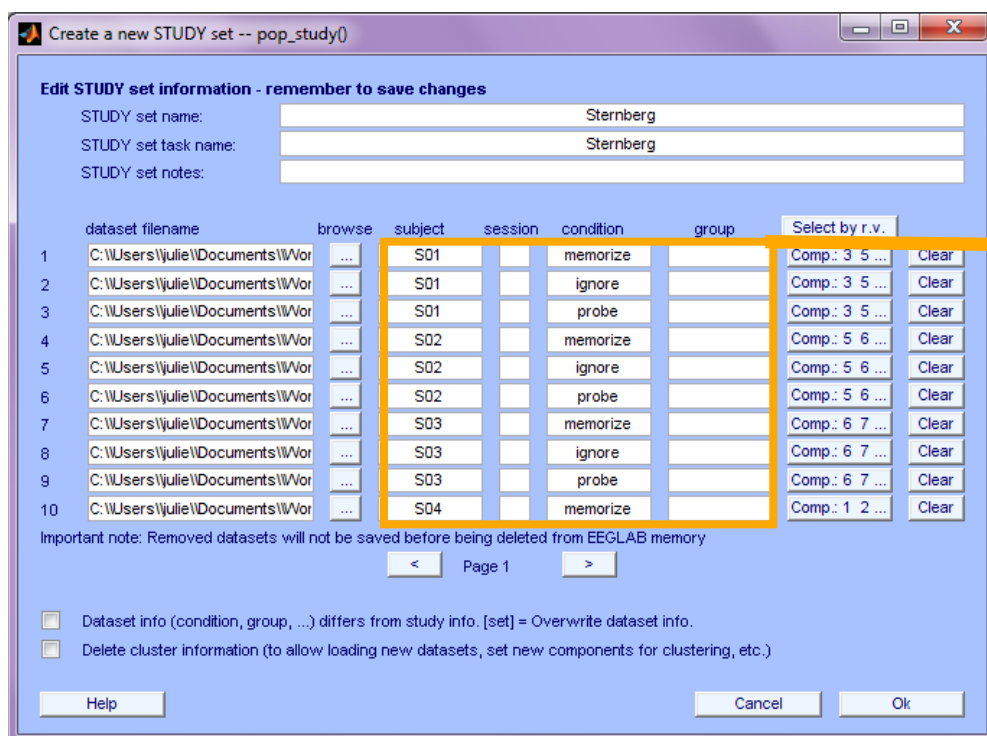
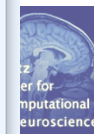
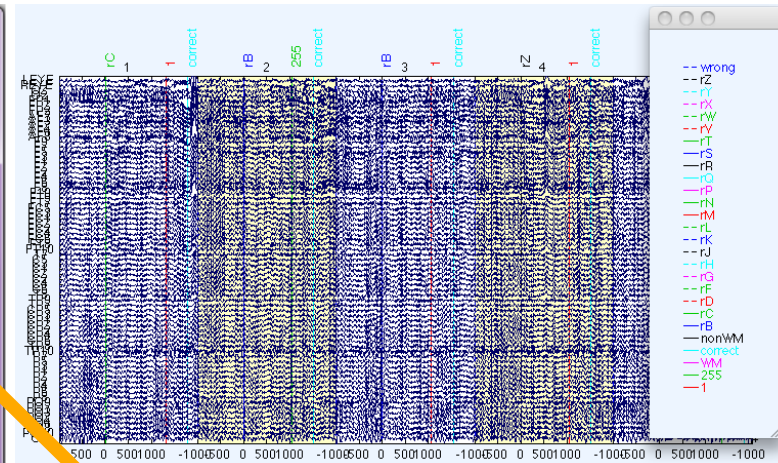
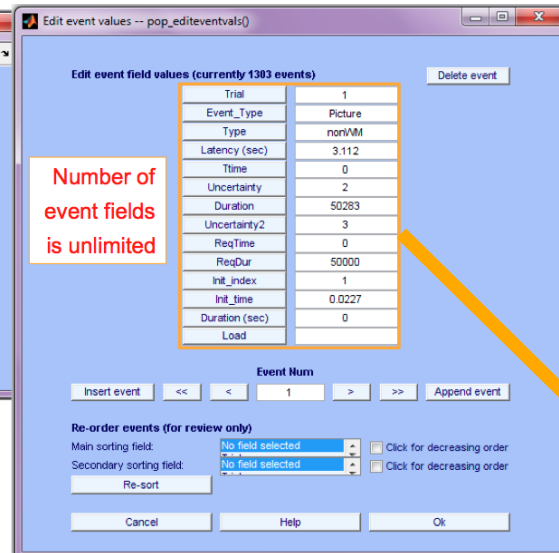
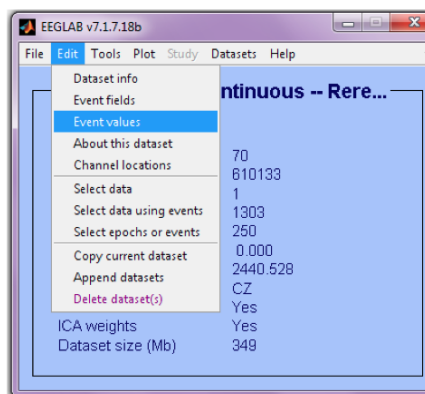


Create design

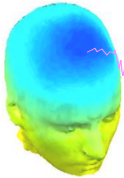


1x3 design





Build a STUDY, alternative method



Create a new STUDY set -- pop_study()

Create a new STUDY set

STUDY set name:

STUDY set task name:

STUDY set notes:

	dataset filename	browse	subject	session	condition	group	Select by r.v.	
1	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
2	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
3	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
4	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
5	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
6	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
7	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
8	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
9	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear
10	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Clear

Important note: Removed datasets will not be saved before being deleted from EEG LAB memory

< Page 1 >

☒ Update dataset info - datasets stored on disk will be overwritten (unset = Keep study info separate).

☐ Delete cluster information (to allow loading new datasets, set new components for clustering, etc.)

Help Cancel Ok

Choose dataset to add to STUDY -- pop_study()

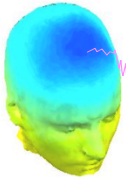
S01

Name	Date Modified
Memorize.icaspec	Thursday, November 12, 2009 9:08 PM
Memorize.icatopo	Monday, November 16, 2009 9:43 PM
Memorize.set	Sunday, November 8, 2009 8:06 AM
Probe.daterp	Monday, June 14, 2010 11:45 PM
Probe.fdt	Thursday, November 12, 2009 11:02 AM
Probe.icaerp	Monday, November 16, 2009 10:01 PM
Probe.icaersp	Tuesday, November 17, 2009 12:05 PM
Probe.icaitc	Tuesday, November 17, 2009 12:05 PM
Probe.icaspec	Thursday, November 12, 2009 9:09 PM
Probe.icatopo	Monday, November 16, 2009 9:44 PM
Probe.set	Thursday, November 12, 2009 11:02 AM
S01.fdt	Tuesday, November 9, 2010 12:05 PM
S01.set	Tuesday, November 9, 2010 12:05 PM

File Format: (*.set, *.SET)

Cancel Open

Edit dataset info



Create a new STUDY set -- pop_study()

Edit STUDY set information - remember to save changes

STUDY set name:

STUDY set task name:

STUDY set notes:

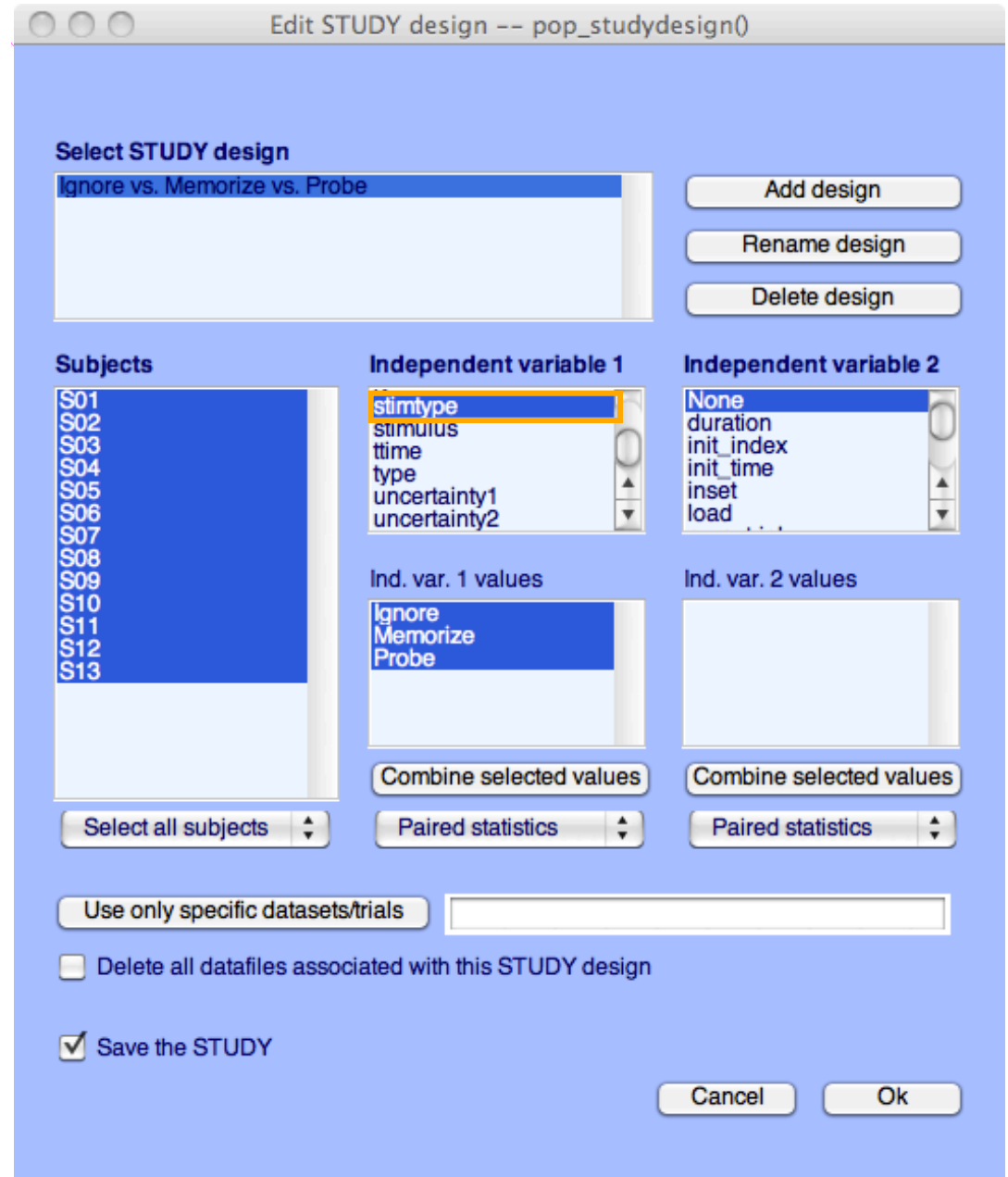
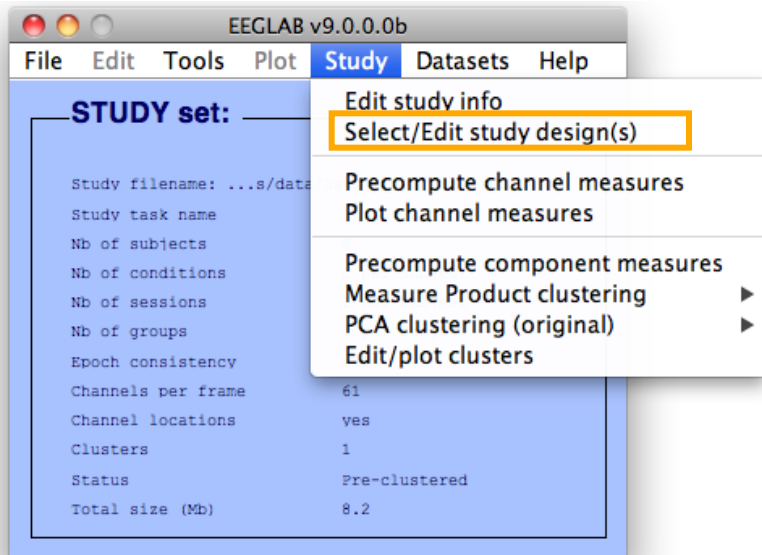
	dataset filename	browse	subject	session	condition	group	Select by r.v.	
1	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S01"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
2	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S02"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
3	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S03"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
4	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S04"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
5	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S05"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
6	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S06"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
7	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S07"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
8	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S08"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
9	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S09"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>
10	<input type="text" value="/Volumes/donnees/data/STU[..."/>	<input type="button" value="..."/>	<input type="text" value="S10"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Comp.: 1 2 ..."/>	<input type="button" value="Clear"/>

Important note: Removed datasets will not be saved before being deleted from EEGLAB memory

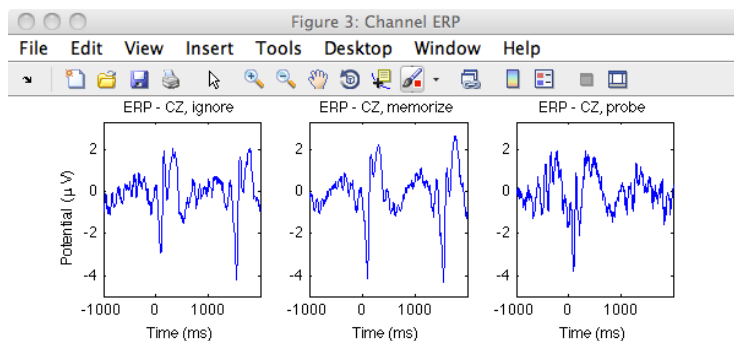
☒ Update dataset info - datasets stored on disk will be overwritten (unset = Keep study info separate).

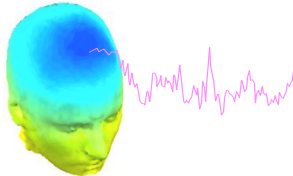
☐ Delete cluster information (to allow loading new datasets, set new components for clustering, etc.)

Create design



1x3 design





Edit STUDY design -- pop_studydesign()

Select STUDY design

Audio versus light all subjects
 All stimulus type - non dual subjects only
 Blank versus other stimulus type - non dual subjects only
 Audio preceded by different stimulus types
 Audio versus light across sessions - non dual subjects only
 Audio versus light across presentation - non dual subjects only

Add design
 Rename design
 Delete design

Subjects

c1
c2
c3
c4
c5
c6
c7
c8
nd1
nd2
nd3
nd4
nd5
nd6
nd7
nd8

Select all subjects

Independent variable 1

None
group
stimulusType
presentation
session
preevent

Ind. var. 1 values

audio
blank
both
light
audio - light

Combine selected values
 Unpaired statistics

Independent variable 2

None
group
stimulusType
presentation
session
preevent

Ind. var. 2 values

control
nondual

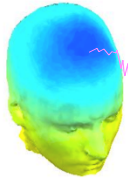
Combine selected values
 Unpaired statistics

Use only specific datasets/trials

☐ Delete all datafiles associated with this STUDY design

☒ Save the STUDY

Cancel Ok



Edit STUDY design -- pop_studydesign()

Select STUDY design

Audio versus light all subjects
All stimulus type - non dual subjects only
Blank versus other stimulus type - non dual subjects only
Audio preceeded by different stimulus types
Audio versus ligh accross sessions - non dual subjects only
Audio versus light accross presentation - non dual subjects only

Add design
Rename design
Delete design

Subjects

c1
c2
c3
c4
c5
c6
c7
c8
nd1
nd2
nd3
nd4
nd5
nd6
nd7
nd8

Select all subjects

Independent variable 1

None
group
stimulusType
presentation
session
prevevent

Ind. var. 1 values

audio
blank
both
light
audio - light

Combine selected values
Unpaired statistics

Independent variable 2

None
group
stimulusType
presentation
session
prevevent

Ind. var. 2 values

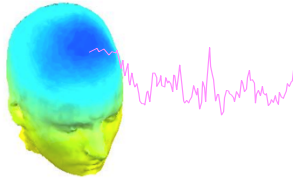
Combine selected values
Unpaired statistics

Use only specific datasets/trials

☐ Delete all datafiles associated with this STUDY design

☒ Save the STUDY

Cancel Ok



Edit STUDY design -- pop_studydesign()

Select STUDY design

Audio versus light all subjects
All stimulus type - non dual subjects only
Blank versus other stimulus type - non dual subjects only
Audio preceeded by different stimulus types
Audio versus ligh accross sessions - non dual subjects only
Audio versus light accross presentation - non dual subjects only

Add design
Rename design
Delete design

Subjects

c1
c2
c3
c4
c5
c6
c7
c8
nd1
nd2
nd3
nd4
nd5
nd6
nd7
nd8

Select all subjects

Independent variable 1

None
group
stimulusType
presentation
session
preevent

Ind. var. 1 values

audio
blank
both
light
audio - light

Combine selected values
Unpaired statistics

Independent variable 2

None
group
stimulusType
presentation
session
preevent

Ind. var. 2 values

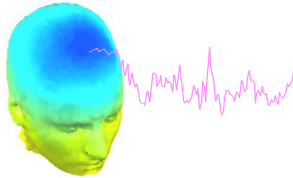
Combine selected values
Unpaired statistics

Use only specific datasets/trials

☐ Delete all datafiles associated with this STUDY design

☒ Save the STUDY

Cancel Ok



Edit STUDY design -- pop_studydesign0

Select STUDY design

Audio versus light all subjects
All stimulus type - non dual subjects only
Blank versus other stimulus type - non dual subjects only
Audio preceeded by different stimulus types
Audio versus ligh accross sessions - non dual subjects only
Audio versus light accross presentation - non dual subjects only

Add design
Rename design
Delete design

Subjects

c1
c2
c3
c4
c5
c6
c7
c8
nd1
nd2
nd3
nd4
nd5
nd6
nd7
nd8

Select all subjects

Independent variable 1

None
group
stimulusType
presentation
session
prevevent

Ind. var. 1 values

audio
blank
both
light

Combine selected values
Unpaired statistics

Independent variable 2

None
group
stimulusType
presentation
session
prevevent

Ind. var. 2 values

Combine selected values
Unpaired statistics

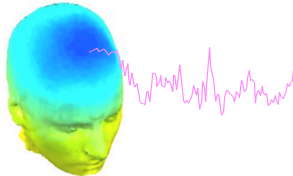
Use only specific datasets/trials

'stimulusType',{'audio'}

☐ Delete all datafiles associated with this STUDY design

☒ Save the STUDY

Cancel Ok



Edit STUDY design -- pop_studydesign()

Select STUDY design

Audio versus light all subjects
All stimulus type - non dual subjects only
Blank versus other stimulus type - non dual subjects only
Audio preceeded by different stimulus types
Audio versus ligh accross sessions - non dual subjects only
Audio versus light accross presentation - non dual subjects only

Add design
Rename design
Delete design

Subjects

c1
c2
c3
c4
c5
c6
c7
c8
nd1
nd2
nd3
nd4
nd5
nd6
nd7
nd8

Select all subjects

Independent variable 1

None
group
stimulusType
presentation
session
prevevent

Ind. var. 1 values

audio
blank
both
light
audio - light

Combine selected values
Unpaired statistics

Independent variable 2

None
group
stimulusType
presentation
session
prevevent

Ind. var. 2 values

1
2

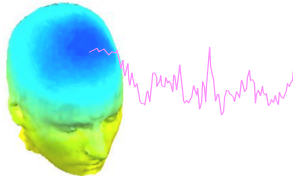
Combine selected values
Unpaired statistics

Use only specific datasets/trials

☐ Delete all datafiles associated with this STUDY design

☒ Save the STUDY

Cancel Ok



Edit STUDY design -- pop_studydesign()

Select STUDY design

Audio versus light all subjects
All stimulus type - non dual subjects only
Blank versus other stimulus type - non dual subjects only
Audio preceeded by different stimulus types
Audio versus ligh accross sessions - non dual subjects only
Audio versus light accross presentation - non dual subjects only

Add design
Rename design
Delete design

Subjects

c1
c2
c3
c4
c5
c6
c7
c8
nd1
nd2
nd3
nd4
nd5
nd6
nd7
nd8

Select all subjects

Independent variable 1

None
group
stimulusType
presentation
session
preevent

Ind. var. 1 values

audio
blank
both
light
audio - light

Combine selected values
Unpaired statistics

Independent variable 2

None
group
stimulusType
presentation
session
preevent

Ind. var. 2 values

evoked
spontaneous

Combine selected values
Unpaired statistics

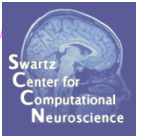
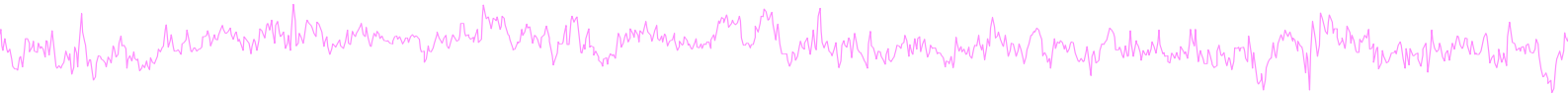
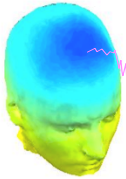
Use only specific datasets/trials

☐ Delete all datafiles associated with this STUDY design

☒ Save the STUDY

Cancel Ok

STUDY design and plotting overview



STEP 1

Build a STUDY

STEP 2

Build design(s)

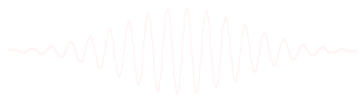
STEP 3

Precompute the data

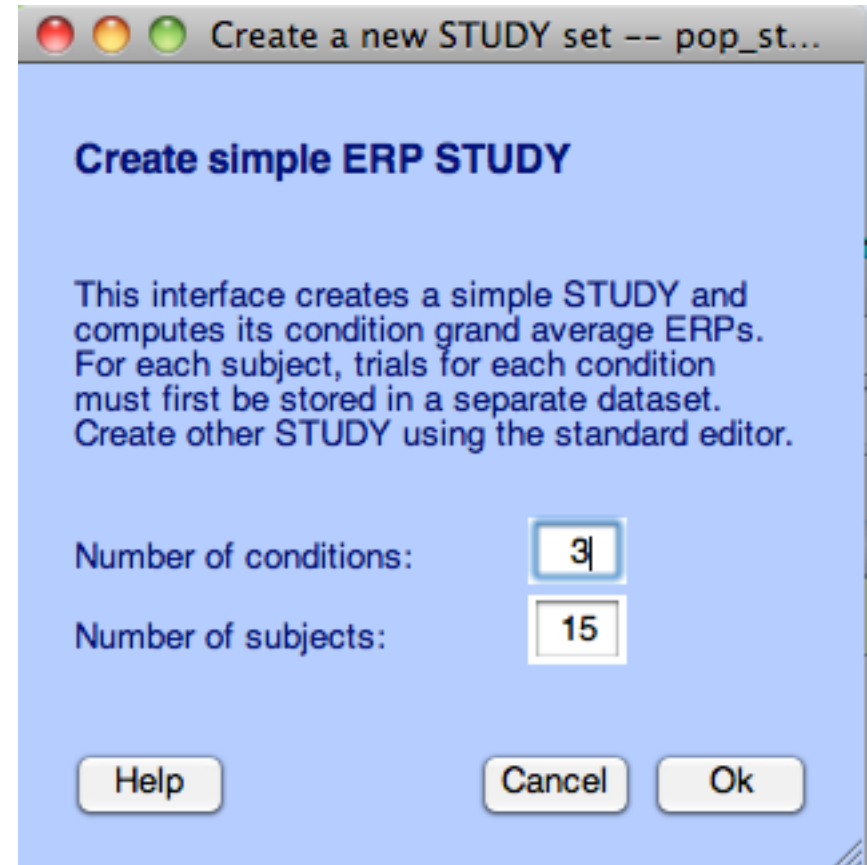
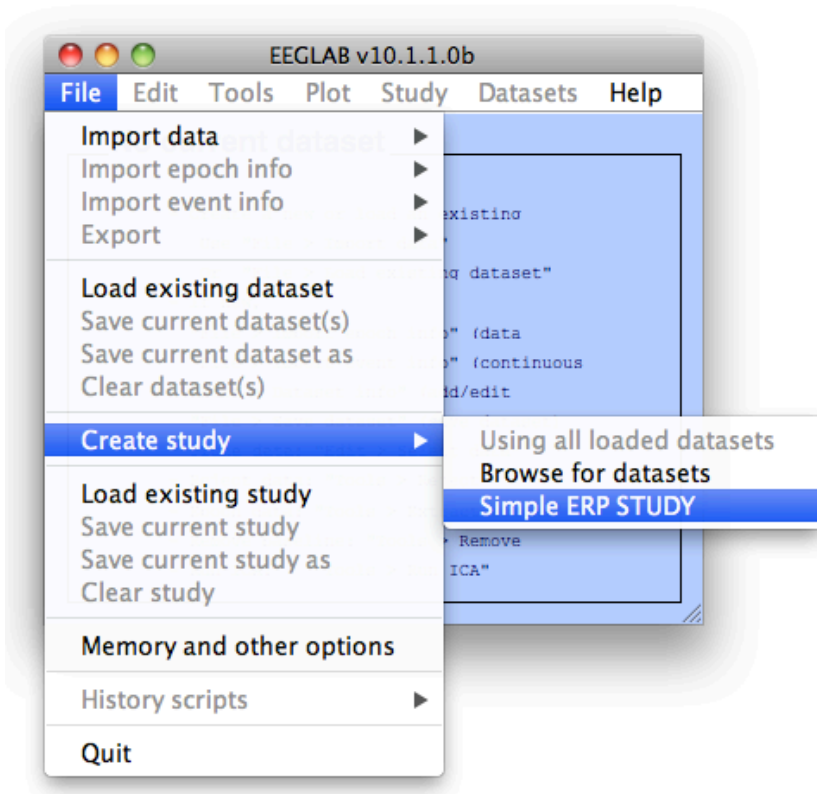
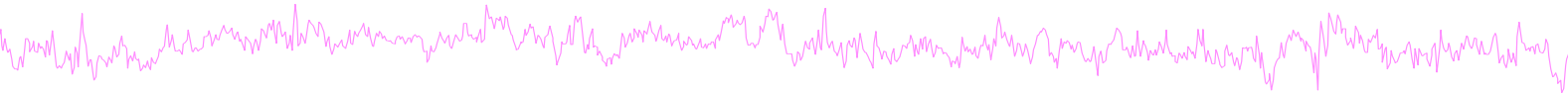
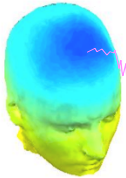
STEP 4

Plot the data

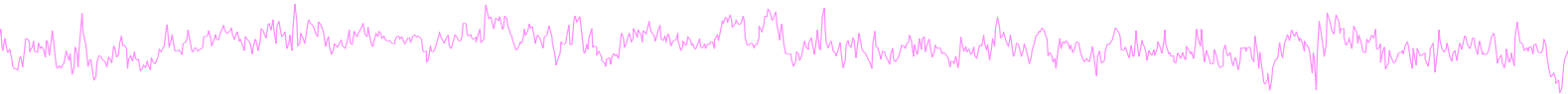
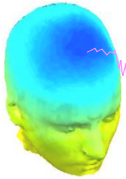
Exercise...



Create simple ERP STUDY



Create simple ERP STUDY



Create a new STUDY set -- pop_studyerp()

Create simple ERP STUDY

STUDY set name:

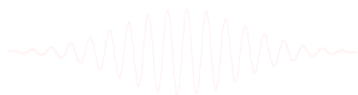
Condition 1 name: Condition 2 name: Condition 3 name:

Condition 1 datasets: ...
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Condition 2 datasets: ...
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Condition 3 datasets: ...
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When using more than 1 condition, datasets on each line must correspond to the same subject.



Create simple ERP STUDY

