

# BrainEx | Load dataset



Load an existing  
preprocessed  
dataset to start:

SART1

SART2

SART3

# BrainEx

## Ver 1.0.4

 Preprocess a new dataset

Load another  
preprocessed  
dataset

Files on the left have already  
been imported from the local  
machine

# BrainEx I File Browser



Navigation icons: back, forward, computer icon, address bar: > Computer, refresh icon, search icon

Organize   System Properties   Uninstall or change a program   Map network drive   Open Control Panel

- ★ Favorites
  - Recently Changed
  - Desktop
- Libraries
  - Documents
  - Music
  - Pictures
  - Movies

| Name               | Date Modified  | File Type   |
|--------------------|----------------|-------------|
| Loreem ipsum dolor | 1/13/2012 9:00 | File Folder |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| SART4.gxdb         | 1/13/2012 9:00 | GXDB File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |

Upload a file:

SART4.gxdb

Import

Cancel



# BrainEx I Select Dataset



Previously imported  
unprocessed CSV  
files:

Dataset1

Dataset2

Dataset3

Back

Upload new file

Next



For simplicity, click on SART2 if you want to  
click on an existing dataset on the side  
bar



◀ ▶ &lt; Computer

[Organize](#) [System Properties](#) [Uninstall or change a program](#) [Map network drive](#) [Open Control Panel](#)

## ★ Favorites

Recently Changed

Desktop

## 📁 Libraries

Documents

Music

Pictures

Movies

| Name               | Date Modified  | File Type   |
|--------------------|----------------|-------------|
| Loreem ipsum dolor | 1/13/2012 9:00 | File Folder |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Dataset4.csv       | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |

Upload a file:

Dataset4.csv

Upload

Cancel





# BrainEx I Preprocessing Options

② Similarity Threshold:  0.1  0.2  Custom: \_\_\_\_

② Type of Distance: 

Warped Euclidean ▼

Warped Euclidean

Warped City Block (manhattan)

Warped Minkowski

Warped Chebyshev

② Sequence Length of Interest: between  and

Back

Start Preprocessing

Question: what are the true names of the distances?

Length of interest means the number of seconds of how long the sequence lasted that the user wants to see

BrainEx



Preprocessing In Progress...



Working dataset: dataset4.csv

Cancel Preprocessing

Explore data while preprocessing

Notes:

This page is intended to automatically load and display the finished loading clusters page. However, you need to click next because of Balsamiq's (prototype website that we used for creating this mockup) limitations on transitions.

note: Explore data while preprocessing --> Explore raw data

# BrainEx I Preprocessing Progress



Preprocessing Progress...51%



Sequences Preprocessed: 102/200

Cancel

Next

Notes:

This page is intended to automatically load and display the finished loading clusters page. However, you need to click next because of Balsamiq's (prototype website that we used for creating this mockup) limitations on transitions.

## Current Selection



## Filter

Channel

- Channel1  
 Channel2  
 Channel3  
 Channel4  
 Channel5

SubjectID

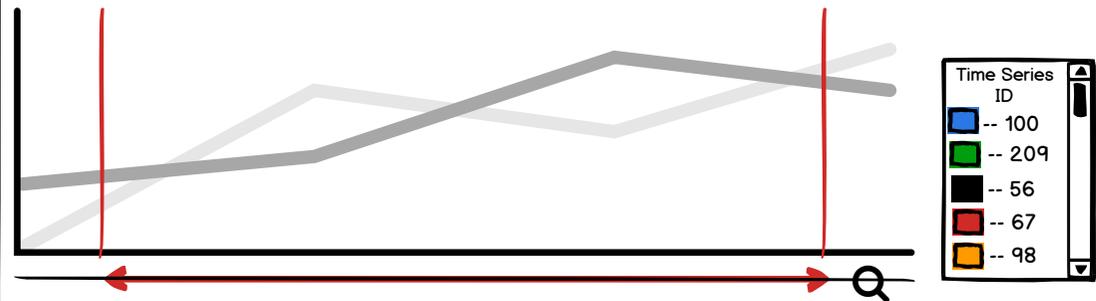
Events

- Correct  
 Incorrect  
 No Response

## Statistics

Total Number of Data  
 Records: 2000  
 Average length of time: 121  
 seconds  
 Minimum: 222 seconds  
 Maximum: 800 seconds

## Data Visualizer



## Data Viewer

| SubjectID | Event Name         | Channel Name   | Start Time | End Time |
|-----------|--------------------|----------------|------------|----------|
| 101 HART  | target correct     | Channel-1 HBO  | 300        | 332      |
| 93 SART   | target incorrect   | Channel-4 VBO  | 789        | 800      |
| 34 TART   | target no response | Channel-18 JVO | 210        | 222      |
|           |                    |                |            |          |
|           |                    |                |            |          |
|           |                    |                |            |          |

Back

Save selected sequence for search

Find Similar Sequences

## Notes:

Sort the data here in descending order of (end time - start time)  
 Do not show all data at once, let the user filter first and then show the data

## Design Justification:

We wanted to make the screen straightforward, simple to look at and easy to navigate. Keeping these goals in mind, we put all the user parameter selections on one side (the left) and visualizations on the other (the right). After performing necessary functions, the user can save the file and then proceed to the next step which is querying the sequence. At the top, there is a navigation bar that allows the user to go to the main page as well as each of the explorer/query pages. We chose a slider instead of brushing on chart region so it does not interfere with selecting an actual sequence from the chart.

Question: Legend? How to choose ID here so user can see which color corresponds to data? Should we use subject ID?

CHANGE: Add ID as column in data viewer table

## Current Selection



## Filter

Channel

- Channel1  
 Channel2  
 Channel3  
 Channel4  
 Channel5

SubjectID

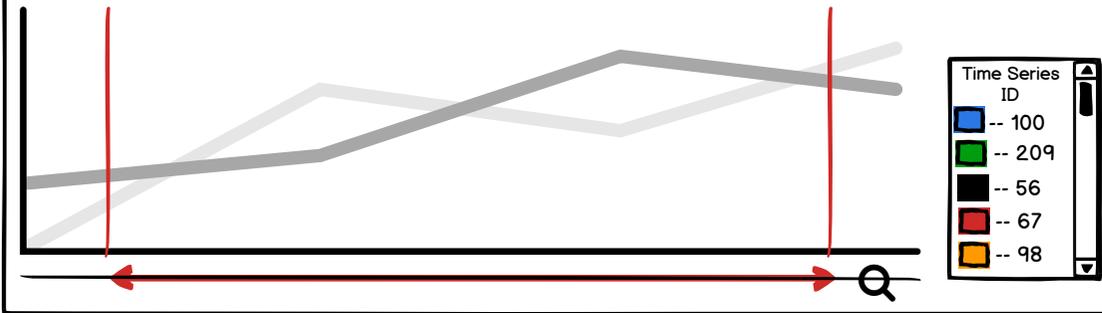
Events

- Correct  
 Incorrect  
 No Response

## Statistics

Total Number of Data  
 Records: 2000  
 Average length of time: 121  
 seconds  
 Minimum: 222 seconds  
 Maximum: 800 seconds

## Data Visualizer



## Data Viewer

| SubjectID | Event Name         | Channel Name   | Start Time | End Time |
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|           |                    |                |            |          |
|           |                    |                |            |          |
|           |                    |                |            |          |
|           |                    |                |            |          |

Back

Save selected sequence for search

Find Similar Sequences

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After performing necessary functions, the user can save the file and then proceed to the next step which is querying the sequence.

At the top, there is a navigation bar that allows the user to go to the main page as well as each of the explorer/query pages.

We chose a slider instead of brushing on chart region so it does not interfere with selecting an actual sequence from the chart.

Question: Legend? How to choose ID here so user can see which color corresponds to data? Should we use subject ID?

**Preprocessing stage is complete!**

Sequences Preprocessed: 20065/20065

Restart with another Dataset

Explore Loaded Data

Find Similar Sequences

**Please select from  
one of the tabs  
above to proceed**

Pick an option to explore the  
loaded data:

Dataset Explorer ?

Cluster Explorer ?

← Back



## Current Selection



## Filter

Channel

- Channel1
- Channel2
- Channel3
- Channel4
- Channel5

SubjectID

Events

- Correct
- Incorrect
- No Response

## Statistics

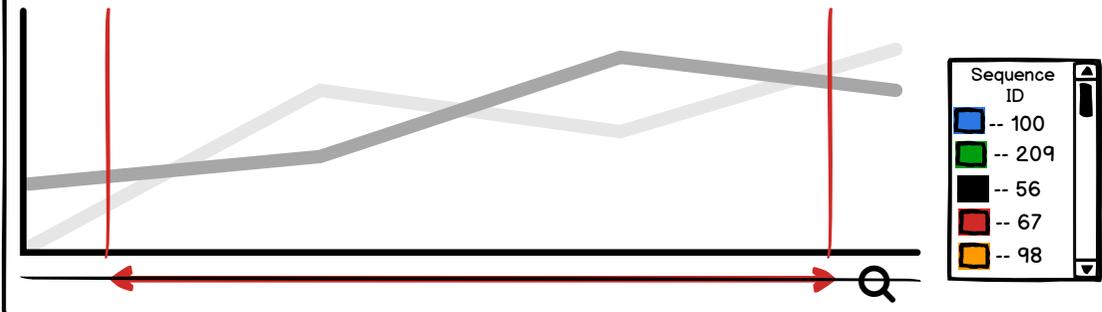
Total Number of Data  
Records: 2000

Average length of time: 121  
seconds

Minimum: 222 seconds

Maximum: 800 seconds

## Data Visualizer



## Data Viewer

| SubjectID | Event Name         | Channel Name   | Start Time | End Time |
|-----------|--------------------|----------------|------------|----------|
| 101 HART  | target correct     | Channel-1 HBO  | 300        | 332      |
| 93 SART   | target incorrect   | Channel-4 VBO  | 789        | 800      |
| 34 TART   | target no response | Channel-18 JVO | 210        | 222      |
|           |                    |                |            |          |
|           |                    |                |            |          |
|           |                    |                |            |          |
|           |                    |                |            |          |

Back

Save selected sequence for search

Find Similar Sequences

## Notes:

Sort the data here in descending order of (end time - start time) -> cannot do this because they are strings in the gxdb

Do not show all data at once, let the user filter first and then show the data

## Design Justification:

We wanted to make the screen straightforward, simple to look at and easy to navigate. Keeping these goals in mind, we put all the user parameter selections on one side (the left) and visualizations on the other (the right).

After performing necessary functions, the user can save the file and then proceed to the next step which is querying the sequence.

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## Current Selection



## Filter

Channel

- Channel1
- Channel2
- Channel3
- Channel4
- Channel5

SubjectID

Events

- Correct
- Incorrect
- No Response

## Statistics

Total Number of Data  
Records: 2000  
Average length of time: 121  
seconds  
Minimum: 222 seconds  
Maximum: 800 seconds

## Data Visualizer

Please narrow down your selection  
to a maximum of 12 points before  
viewing the data more closely

## Data Viewer

| SubjectID | Event Name         | Channel Name   | Start Time | End Time |
|-----------|--------------------|----------------|------------|----------|
| 101 HART  | target correct     | Channel-1 HBO  | 300        | 332      |
| 93 SART   | target incorrect   | Channel-4 VBO  | 789        | 800      |
| 34 TART   | target no response | Channel-18 JVO | 210        | 222      |
|           |                    |                |            |          |
|           |                    |                |            |          |
|           |                    |                |            |          |
|           |                    |                |            |          |

Back

Save selected sequence for search

Find Similar Sequences

## Notes:

Sort the data here in descending order of (end time - start time) -> cannot do this because they are strings in the gxdb

Do not show all data at once, let the user filter first and then show the data

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Question: Legend? How to choose ID here so user can see which color corresponds to data? Should we use subject ID?

# BrainEx I Data Explorer

Load Dataset | Explore Data | Find Similar Sequences

Explore raw data | Explore clustered data

**Filter**

Number of Clusters to Display:

1  20

Display clusters of length:

6  100

**Clusters**

Number of time series: 60 

Number of time series: 50 

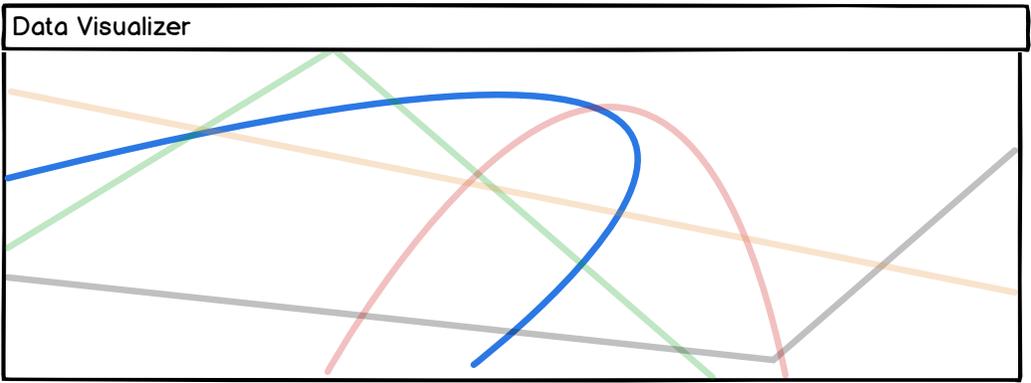
Number of time series: 45 

Number of time series: 

**Statistics**

Number of clusters: 3456  
 Sequences  
 Mean: 354  
 Minimum: 5  
 Maximum: 500

**Data Visualizer**



**Cluster ID**

- -- 100
- -- 209
- -- 56
- -- 67
- -- 98

**Data Viewer**

| ClusterID | Sequence Length (in seconds) | Number of Sequences |
|-----------|------------------------------|---------------------|
| 1         | 100                          | 5                   |
| 2         | 209                          | 60                  |
| 3         | 56                           | 45                  |
| 4         | 67                           | 16                  |
| 5         | 98                           | 78                  |
| 6         | 509                          | 109                 |
| 7         | 290                          | 32                  |
| 8         | 876                          | 12                  |
| 9         | 487                          | 9                   |
| 10        | 1067                         | 10                  |

← Back

Next →

**Notes:**

Data Visualizer will display the user specified amount of cluster representatives

Data Table will have length (time) of sequences and number of sequences

There will never be a cluster with the same length so can just use length as unique cluster ID -> this is false

There can be multiple clusters with the same length as long as they are not similar in shape

All sequences in a cluster will have the same length

Selecting cluster and representative will highlight it on the data visualizer graph

**Filters:**

- Number of clusters (top 15 or 20)
- Range of length (slider)

**Statistics:**

- Show the cluster with the most/least sequences
- Show the top 3/least 3 with the greatest/least length of sequences

**Question:**

How do we decide how many representatives to display to the user (maybe ask to input a number from 1-10) and on what basis (show representatives of the top 10 clusters with most data points)?

If we have 30,000 clusters, how do we filter them down to approx 20? Should we ask for user input or another screen?

How to identify each cluster? Should we assign an id to each?

**Design Justification:**

To keep the UI simple, this cluster explorer screen as well as the rest of the explorer/query finder screens have the same layout with user inputs on the left and visualizations on the right

The view data shapes area displays the data shape of the representative of each cluster which would make it simpler for the user to view and easier to pick which area to investigate more

The number of sequences in each cluster is displayed as the label for the view data shapes area to make it easier for users to view that information. The filters are meant to allow the user to narrow down the number of clusters to view at a time

# BrainEx I Cluster Explorer

Load Dataset | Explore Data | Find Similar Sequences

Explore raw data | Explore clustered data



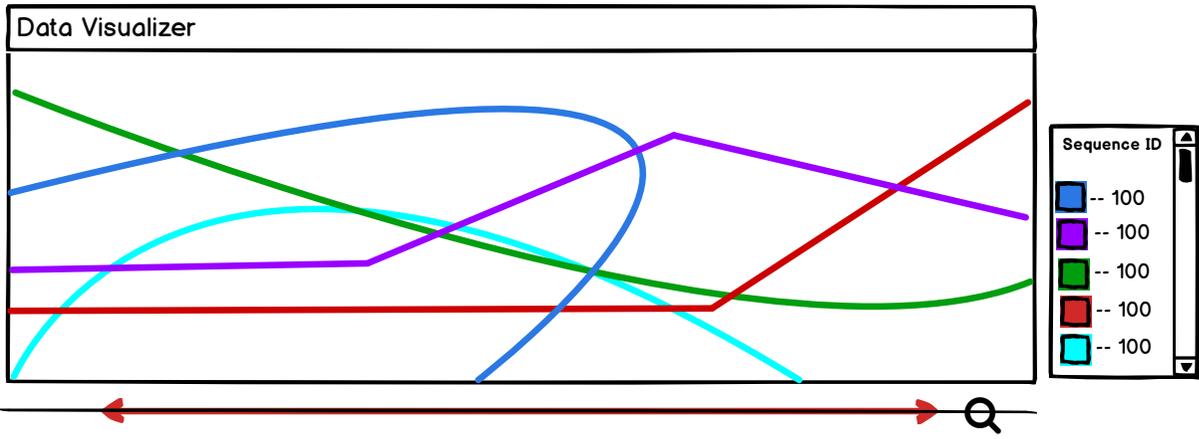
Filter

Maximum number of time series from this cluster to display:

- Clusters
- Number: 60
  - Number: 50
  - Number: 45
  - Number: 32

Statistics

Number of Sequences in the cluster: 5  
 Mean:  
 Standard Deviation:  
 Variance:



Data Viewer

| SubjectID | Event Name         | Channel Name   | Start Time | End Time | Sequence Length (in seconds) |
|-----------|--------------------|----------------|------------|----------|------------------------------|
| 101 HART  | target correct     | Channel-1 HBO  | 300        | 400      | 100                          |
| 93 SART   | target incorrect   | Channel-4 VBO  | 789        | 889      | 100                          |
| 34 TART   | target no response | Channel-18 JVO | 210        | 310      | 100                          |
| 101 HART  | target correct     | Channel-1 HBO  | 350        | 450      | 100                          |
| 93 SART   | target incorrect   | Channel-4 VBO  | 675        | 775      | 100                          |

Notes:

Data Visualizer will display the sequences in the cluster selected

Data Table will have data information for each sequence in the cluster selected

Design Justification:

In order to make the cluster explorer more understandable and easy to use, we have a graph that displays the current user selection at the top of the screen.

The user can filter some options and select the number of sequences to view in the cluster as well as the range of the sequence length. This part is to allow the user to narrow down the number of sequences to view at a time

Question: If each sequence in one cluster has the same length, how do we identify?

Is sequence length end-start time?

Doesn't the graph need a slider?

"range of sequence length" is confusing. Is altering this slider altering the length of clusters displayed or length of sequences within cluster displayed. If all sequences within a cluster are the same length that doesn't make sense. Makes people think of individual sequences and not whole clusters



Clusters

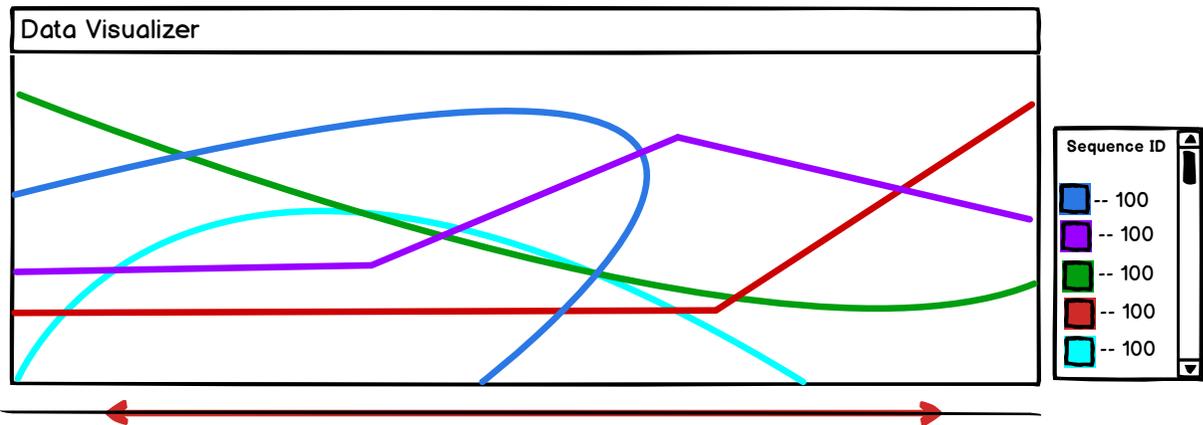
- Number: 5
- Number: 60
- Number: 45
- Number: 16

Filter

Maximum Number of Sequences from this Cluster displayed:

Statistics

Number of Sequences in the cluster: 5  
 Mean:  
 Standard Deviation:  
 Variance:



Data Viewer

| SubjectID | Event Name         | Channel Name   | Start Time | End Time | Sequence Length (in seconds) |
|-----------|--------------------|----------------|------------|----------|------------------------------|
| 101 HART  | target correct     | Channel-1 HBO  | 300        | 400      | 100                          |
| 101 HART  | target correct     | Channel-1 HBO  | 350        | 450      | 100                          |
| 93 SART   | target incorrect   | Channel-4 VBO  | 675        | 775      | 100                          |
| 93 SART   | target incorrect   | Channel-4 VBO  | 789        | 889      | 100                          |
| 34 TART   | target no response | Channel-18 JVO | 210        | 310      | 100                          |

Notes:  
 Data Visualizer will display the sequences in the cluster selected  
 Data Table will have data information for each sequence in the cluster selected

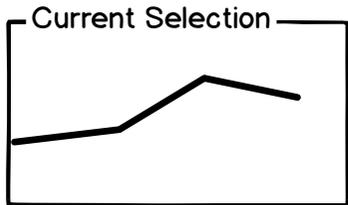
Design Justification:  
 In order to make the cluster explorer more understandable and easy to use, we have a graph that displays the current user selection at the top of the screen.  
 The user can filter some options and select the number of sequences to view in the cluster as well as the range of the sequence length. This part is to allow the user to narrow down the number of sequences to view at a time

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Is sequence length end-start time?

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"range of sequence length" is confusing. Is altering this slider altering the length of clusters displayed or length of sequences within cluster displayed. If all sequences within a cluster are the same length that doesn't make sense. Makes people think of individual sequences and not whole clusters



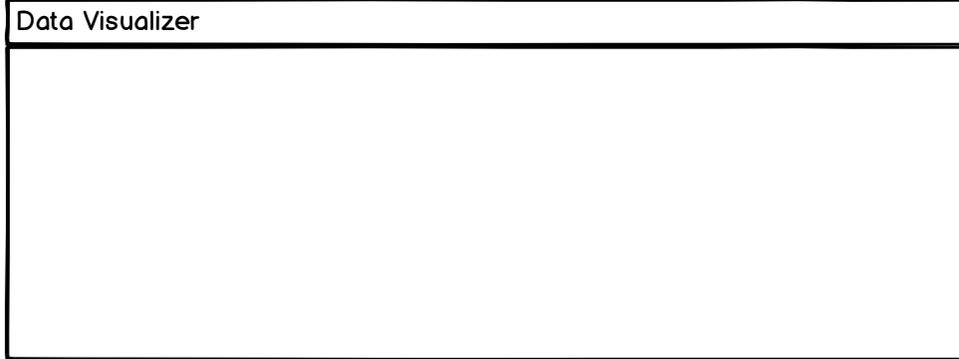
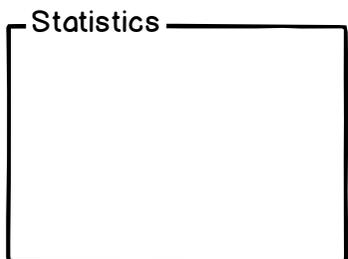
#### 1. Sequence Selection

- Upload a sequence file
- Use selection from raw data
- Use selection from clustered data

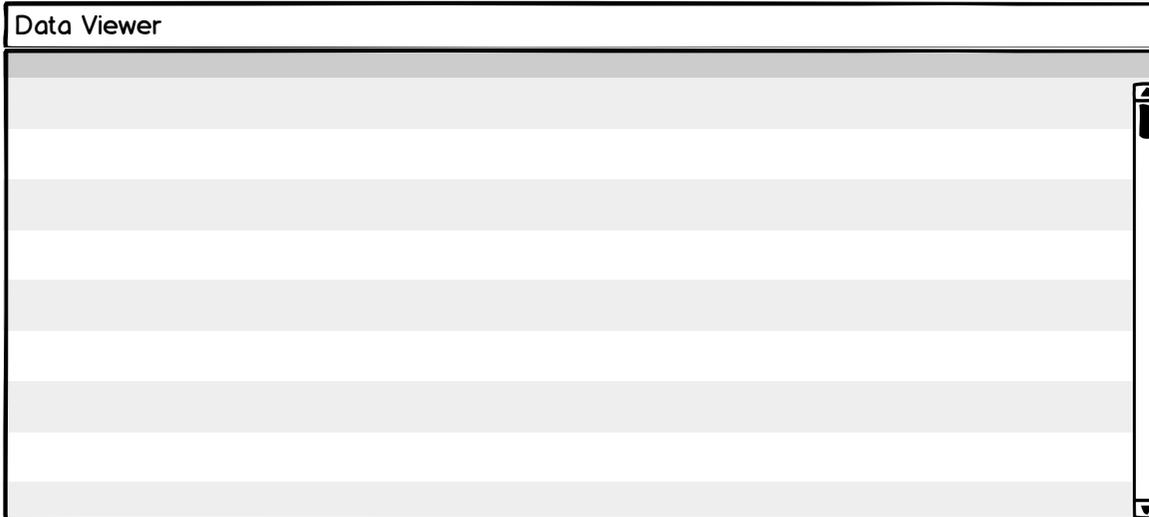
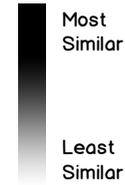
#### 2. Enter Parameters

- ? Number of best sequence matches:
- ? Exclude sequences from selected time series
- ? Overlap allowed:
- ? Length of Interest:

Show Query Results



#### Similarity



#### Notes:

Show query result is disabled on this page because parameters have not been entered. Gray out selection if selection not made in cluster explorer/dataset explorer.

#### Design Justification:

The input required for query is setup as an accordion because we wanted to show the sequential order of input that is required for this step.



## Current Selection



### 1. Sequence Selection

- Upload a sequence file
- Use selection from raw data
- Use selection from clustered data

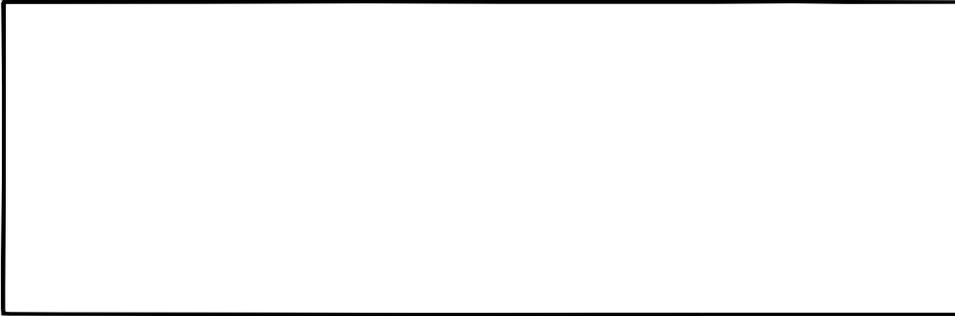
### 2. Enter Parameters

- Number of best sequence matches:
- Exclude sequences from selected time series
- Overlap allowed:
- Length of Interest:

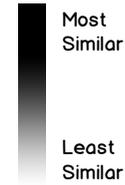
Show Query Results

## Statistics

## Data Visualizer



## Similarity



## Data Viewer



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## Current Selection

### 1. Sequence Selection

- Upload a sequence file
- Use selection from raw data
- Use selection from clustered data

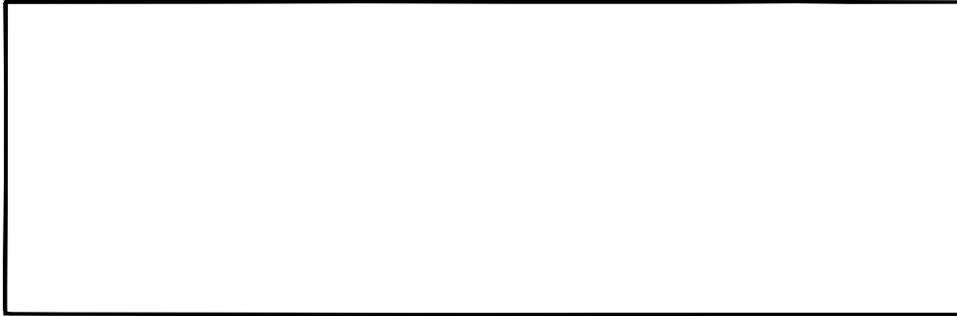
### 2. Enter Parameters

- Number of best sequence matches:
- Exclude sequences from selected time series
- Overlap allowed:
- Length of Interest:

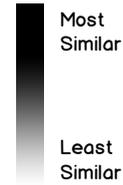
Show Query Results

## Statistics

## Data Visualizer



### Similarity



## Data Viewer

### Notes:

Show query result is disabled on this page because parameters have not been entered. Gray out selection if selection not made in cluster explorer/dataset explorer.

### Design Justification:

The input required for query is setup as an accordion because we wanted to show the sequential order of input that is required for this step.

Navigation icons: back, forward, computer icon, address bar: > Computer, refresh icon, search icon

Organize   System Properties   Uninstall or change a program   Map network drive   Open Control Panel

- ★ Favorites
  - Recently Changed
  - Desktop
- Libraries
  - Documents
  - Music
  - Pictures
  - Movies

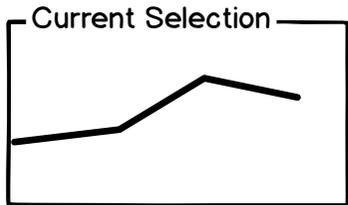
| Name               | Date Modified  | File Type   |
|--------------------|----------------|-------------|
| queryseq1.csv      | 1/13/2012 9:00 | File Folder |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |
| Loreem ipsum dolor | 1/13/2012 9:00 | Text File   |

Upload a file:

queryseq1.csv

Upload   Cancel





## 1. Sequence Selection

- Upload a sequence file
- Use selection from raw data
- Use selection from clustered data

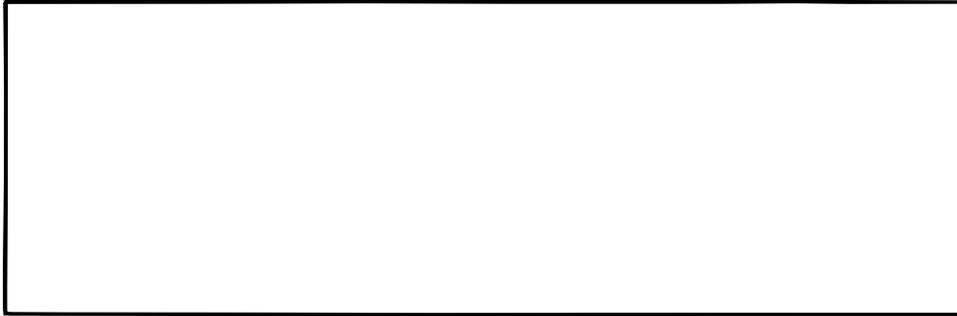
## 2. Enter Parameters

- ? Number of best sequence matches:
- ?  Exclude sequences from selected time series
- ? Overlap allowed:
- ? Length of Interest:

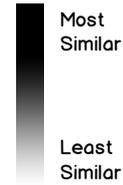
Show Query Results

### Statistics

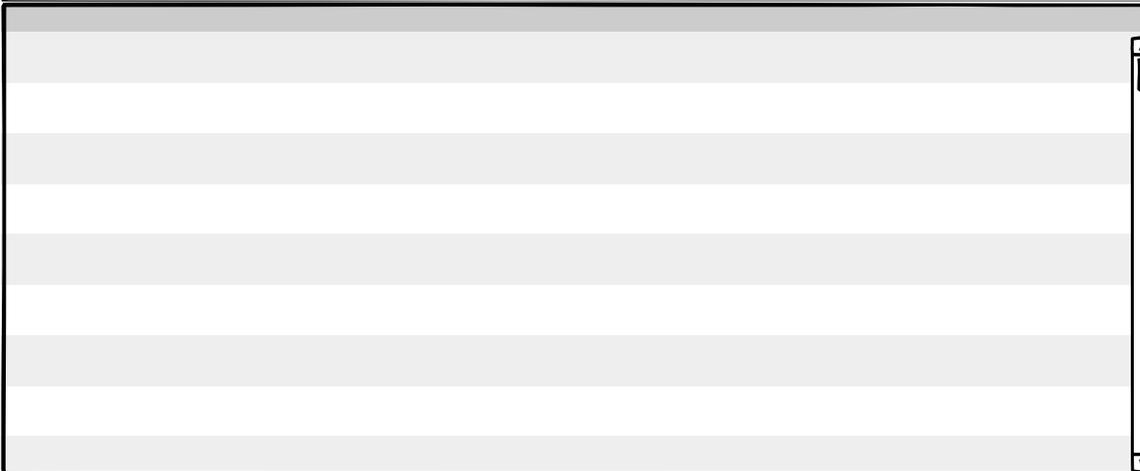
### Data Visualizer



### Similarity



### Data Viewer



A table with 10 rows and 1 column. The rows are shaded in alternating light and dark gray, representing a list of results.

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**1. Sequence Selection**

- Upload a sequence file
- Use selection from raw data
- Use selection from clustered data

**2. Enter Parameters**

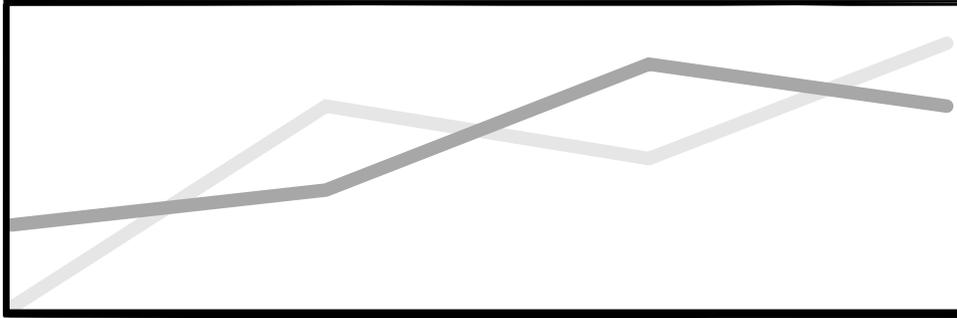
- Number of best sequence matches:
- Exclude sequences from selected time series
- Overlap allowed:
- Length of Interest:

Show Query Results

**Statistics**

Similarity  
 Mean: 67%  
 Standard Deviation: 3.2  
 Variance: 10.24

**Data Visualizer**



**Similarity**



**Data Viewer**

| SubjectID | Best | Overla | Similarit | Event Name       | Channel        | Start | End |
|-----------|------|--------|-----------|------------------|----------------|-------|-----|
| 101 HART  | 5    | 20%    | 65%       | target correct   | Channel-1 HBO  | 300   | 345 |
| 93 SARTO  | 6    | 40%    | 75%       | target incorrect | Channel-4 VBO  | 789   | 876 |
| 34 TART   | 4    | 39%    | 85%       | target no        | Channel-18 JVO | 210   | 322 |
| 103 HARTO | 2    | 36%    | 95%       | target correct   | Channel-1 HBO  | 300   | 333 |
| 96 SARTI  | 3    | 31%    | 55%       | target incorrect | Channel-4 VBO  | 716   | 723 |

Clear Results

Save sequence results

Notes:

Data Table: Best matches, overlap, similarity (95% similar), subject ID, channel, start, end  
 Visualization: data points in each explorer are displayed in graph (same as graph in cluster explorer copy)

Design Justification:

A slider is used here instead of the brushing on chart region for consistency with the previous screens, also making it easier for the user to select one specific sequence.

Question:

Takes time to extract things from results and require more functionality on backend. What if i want to see top 5, middle 3, bottom 3? (talk this over with Leo about feasibility of our current idea, but Rodica brought up a good point on being able to select specific sequences that are not adjacent in the table/ranking)



**1. Sequence Selection**

- Upload a sequence file
- Use selection from raw data
- Use selection from clustered data

**2. Enter Parameters**

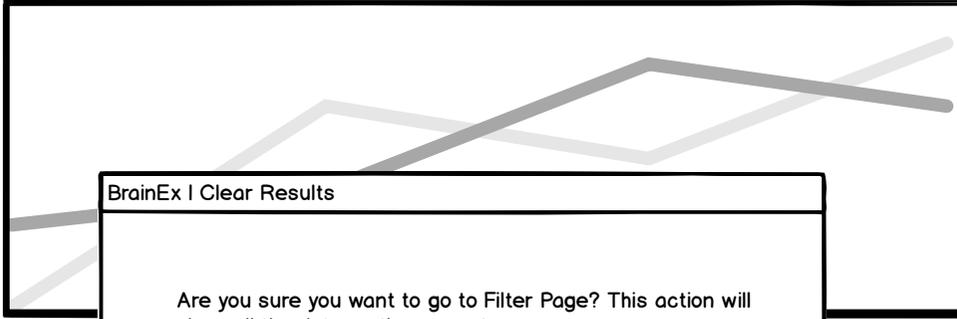
- Number of best sequence matches:
- Exclude sequences from selected time series
- Overlap allowed:
- Length of Interest:

Show Query Results

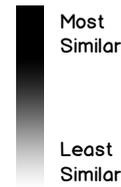
**Statistics**

Similarity  
 Mean: 67%  
 Standard Deviation: 3.2  
 Variance: 10.24

**Data Visualizer**



**Similarity**



**BrainEx | Clear Results**

Are you sure you want to go to Filter Page? This action will clear all the data on the current page.

**Yes, go to Filter Page**      **No, cancel this action**

| Subject ID | Number of Sequences | Overlap | Similarity | Target Status    | Channel        | Start | End |
|------------|---------------------|---------|------------|------------------|----------------|-------|-----|
| 101 HARTO  | 6                   | 40%     | 75%        | target incorrect | Channel-4 VBO  | 300   | 345 |
| 93 SARTO   | 4                   | 39%     | 85%        | target no        | Channel-18 JVO | 789   | 876 |
| 34 TART    | 2                   | 36%     | 95%        | target correct   | Channel-1 HBO  | 210   | 322 |
| 103 HARTO  | 3                   | 31%     | 55%        | target incorrect | Channel-4 VBO  | 300   | 333 |
| 96 SARTI   |                     |         |            |                  |                | 716   | 723 |

Clear Results

Save sequence results

Notes:

Data Table: Best matches, overlap, similarity (95% similar), subject ID, channel, start, end  
 Visualization: data points in each explorer are displayed in graph (same as graph in cluster explorer copy)

Design Justification:

A slider is used here instead of the brushing on chart region for consistency with the previous screens, also making it easier for the user to select one specific sequence.

Question:

Takes time to extract things from results and require more functionality on backend. What if i want to see top 5, middle 3, bottom 3? (talk this over with Leo about feasibility of our current idea, but Rodica brought up a good point on being able to select specific sequences that are not adjacent in the table/ranking)



**1. Sequence Selection**

- Upload a sequence file
- Use selection from raw data
- Use selection from clustered data

**2. Enter Parameters**

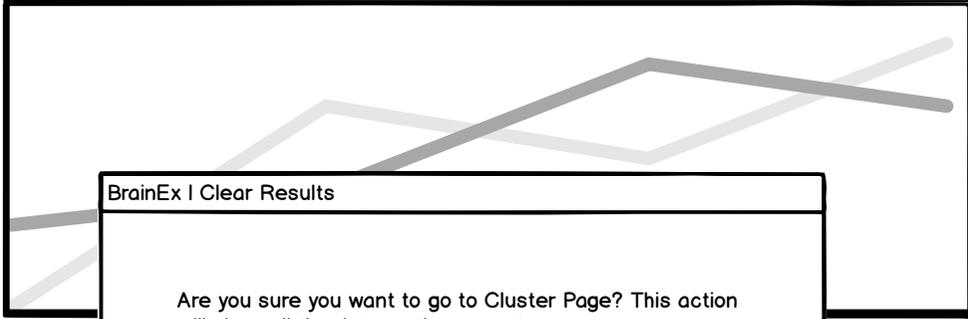
- Number of best sequence matches:
- Exclude sequences from selected time series
- Overlap allowed:
- Length of Interest:

Show Query Results

**Statistics**

Similarity  
 Mean: 67%  
 Standard Deviation: 3.2  
 Variance: 10.24

Data Visualizer



**Similarity**



BrainEx | Clear Results

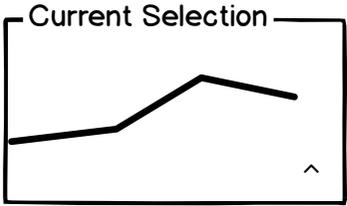
Are you sure you want to go to Cluster Page? This action will clear all the data on the current page.

| Subject ID | Start | End  |
|------------|-------|--|
| 101 HARTO  | HBO   | 300 345  |
| 93 SARTO   | 6     | 40% 75% target incorrect Channel-4 VBO 789 876 |
| 34 TART    | 4     | 39% 85% target no Channel-18 JVO 210 322       |
| 103 HARTO  | 2     | 36% 95% target correct Channel-1 HBO 300 333   |
| 96 SARTI   | 3     | 31% 55% target incorrect Channel-4 VBO 716 723 |

Notes:  
 Data Table: Best matches, overlap, similarity (95% similar), subject ID, channel, start, end  
 Visualization: data points in each explorer are displayed in graph (same as graph in cluster explorer copy)

Design Justification:  
 A slider is used here instead of the brushing on chart region for consistency with the previous screens, also making it easier for the user to select one specific sequence.

Question:  
 Takes time to extract things from results and require more functionality on backend. What if i want to see top 5, middle 3, bottom 3? (talk this over with Leo about feasibility of our current idea, but Rodica brought up a good point on being able to select specific sequences that are not adjacent in the table/ranking)



1. Sequence Selection

- Upload a sequence file
- Use selection from raw data
- Use selection from clustered data

2. Enter Parameters

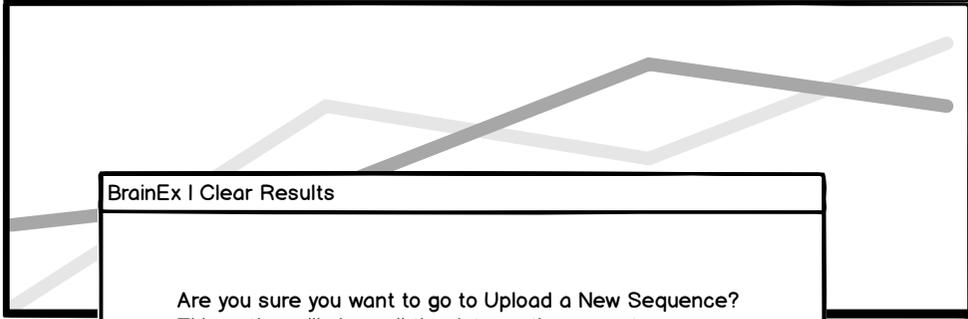
- Number of best sequence matches:
- Exclude sequences from selected time series
- Overlap allowed:
- Length of Interest:

Show Query Results

**Statistics**

Similarity  
 Mean: 67%  
 Standard Deviation: 3.2  
 Variance: 10.24

Data Visualizer



Similarity



BrainEx | Clear Results

Are you sure you want to go to Upload a New Sequence?  
 This action will clear all the data on the current page.

Yes, upload new sequence    No, cancel this action

| Subject ID | Start | End  |
|------------|-------|--|
| 101 HARTO  | HBO   | 300 - 345                                    |
| 93 SARTO   | 6     | 40% - 75% - target incorrect - Channel-4 VBO |
| 34 TART    | 4     | 39% - 85% - target no - Channel-18 JVO       |
| 103 HARTO  | 2     | 36% - 95% - target correct - Channel-1 HBO   |
| 96 SARTI   | 3     | 31% - 55% - target incorrect - Channel-4 VBO |

Clear Results

Save sequence results

Notes:  
 Data Table: Best matches, overlap, similarity (95% similar), subject ID, channel, start, end  
 Visualization: data points in each explorer are displayed in graph (same as graph in cluster explorer copy)

Design Justification:  
 A slider is used here instead of the brushing on chart region for consistency with the previous screens, also making it easier for the user to select one specific sequence.

Question:  
 Takes time to extract things from results and require more functionality on backend. What if i want to see top 5, middle 3, bottom 3? (talk this over with Leo about feasibility of our current idea, but Rodica brought up a good point on being able to select specific sequences that are not adjacent in the table/ranking)



1. Sequence Selection

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- Use selection from raw data
- Use selection from clustered data

2. Enter Parameters

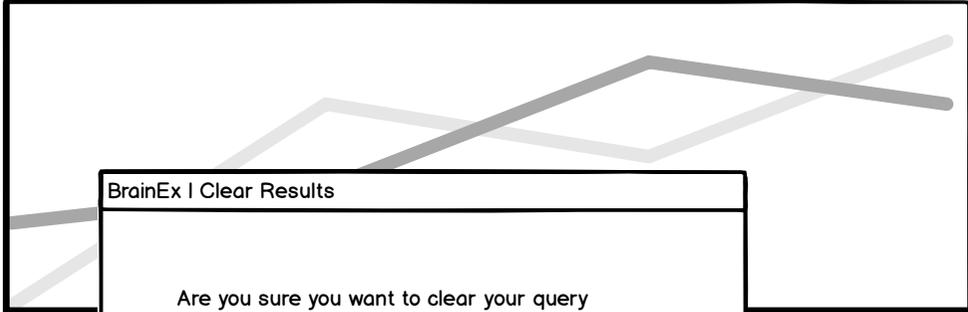
- Number of best sequence matches:
- Exclude sequences from selected time series
- Overlap allowed:
- Length of Interest:

Show Query Results

**Statistics**

Similarity  
 Mean: 67%  
 Standard Deviation: 3.2  
 Variance: 10.24

Data Visualizer



Similarity



BrainEx | Clear Results

Are you sure you want to clear your query results? This action will clear Statistics, Data Visualizer, and Data Viewer, but will NOT clear current selection.

Yes, clear results    No, cancel this action

Data Viewer

| Subject ID | Channel        | Start | End |
|------------|----------------|-------|-----|
| 101 HARTO  | Channel-1 HBO  | 300   | 345 |
| 93 SARTO   | Channel-4 VBO  | 789   | 876 |
| 34 TART    | Channel-18 JVO | 210   | 322 |
| 103 HARTO  | Channel-1 HBO  | 300   | 333 |
| 96 SARTI   | Channel-4 VBO  | 716   | 723 |

Clear Results

Save sequence results

Notes:  
 Data Table: Best matches, overlap, similarity (95% similar), subject ID, channel, start, end  
 Visualization: data points in each explorer are displayed in graph (same as graph in cluster explorer copy)

Design Justification:  
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Question:  
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