



Experiments

New Experiment

Items per page:

10

0 of 0





Experiments

New Experiment

Items per page:

10

0 of 0



Create New Experiment

Experiment Name:

Workshop

Description

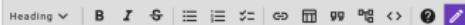
Cancel

Create Experiment

Experiment

Change Experiment

Workshop 



Type / to use the slash commands...

All Plugins

- Hello World
- MUSE

All Plugins Display All Loaded Plugins 0/20 ^

Aggregators(@v0.1.0)

Costume loader(@v0.1.0)

csv-visualization(@v0.1.0)

Entity loader/filter(@v0.1.0)

file-upload(@v0.1.0)

hello-world(@v0.1.0)

hello-world-multi-step(@v0.1.0)

Hybrid Autoencoder(@v0.1.0)

json-visualization(@v0.1.0)

Experiment Workspace

Choose a plugin.

QHAna

Info

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Template
MUSE

Search plugins

Load Data Plugin for loading costume data 0/1

Costume loader(@v0.1.0)

Data Preparation Plugins for Data Preparation 0/5

Quantum Part Plugin for Quantum Algorithm 0/2

Visualization Plugin for Visualization 0/1

Experiment Workspace

> Costume loader (@v0.1.0)

data-loading

Loads all the costumes or base elements from the MUSE database.

Costume Type

Load costumes as one costume per entity or one base element per entity.

DB host

Host of the mysql database.

DB user name

A user name for the mysql database.

DB password

Password for the database user.

DB database

Name of the mysql database.

validate **submit**

Navigating to the workspace via the the back-button will open the same template and category again.

Clicking on Workspace will open the default template

The screenshot shows the QHAna interface with the following details:

- Header:** QHAna, Info, **Workspace** (highlighted with a red circle), Data, Timeline, Workshop, gear icon.
- Page Title:** Timeline Step
- Section:** Timeline Step 1 (costume-loader@v0.1.0) ✓
- Status:** SUCCESS
- Result Quality:** unknown
- Timing:** 14:00:01 (11 October 2022) – 14:00:03 (11 October 2022)
- Processor:** costume-loader (version v0.1.0)
- Processor Location:** http://localhost:5005/plugins/costume-loader%40v0-1-0/
- Links:** Result Log, Parameters
- Notes:** A rich text editor toolbar and a text input field "Type / to use the slash commands..."
- Output:** entities.json (version 1)
 - Preview With: json-visualization
 - Visualization Options: JSON File, URL input: http://host.docker.internal:9090/experiments/t/data/entities.json/download?version=1, choose file button.

QHAna Info Workspace Data Timeline Workshop

Template MUSE

Search plugins

Load Data Plugin for loading costume data 1/1

Data Preparation Plugins for Data Preparation 0/5

- Aggregators(@v0.1.0)
- Multidimensional Scaling (MDS)(@v0.1.0)
- Similarities to distances transformers(@v0.1.0)
- Sym Max Mean attribute comparer(@v0.1.0)
- Wu Palmer similarities(@v0.1.0)**

Quantum Part Plugin for Quantum Algorithm 0/2

Visualization Plugin for Visualization 0/1

Experiment Workspace

> Wu Palmer similarities (@v0.1.0)

similarity-computation

Compares elements and returns similarity values.

Entities URL
http://host.docker.internal:9090/experiments/1/data/entities.json?download?version=1 choose file

Selected File: entities.json (v1) raw - application/json
URL to a file with entities.

Entities Attribute Metadata URL
http://host.docker.internal:9090/experiments/1/data/attribute_metadata.json?download?version=1 choose file

Selected File: attribute_metadata.json (v1) attribute-metadata - application/json
URL to a file with the attribute metadata for the entities.

Taxonomies URL
http://host.docker.internal:9090/experiments/1/data/taxonomies.zip?download?version=1 choose file

Selected File: taxonomies.zip (v1) graphs - application/zip
URL to zip file with taxonomies.

Attributes

dominantfarbe
dominantfarbe_and
dominanteCharaktereigenschaft
dominanteAltersgruppe_im_druk
genre

Attributes for which the similarity shall be computed

Consider root node as part of the hierarchy

If the root node is part of the hierarchy, then items that are direct descendants of the root node are considered similar to a certain degree. Otherwise they will be considered as not similar. e.g. when the root node of a color taxonomy also represents a color, it should be considered as part of the hierarchy.

enable disable

QHAna Info Workspace Data Timeline

Workshop

Timeline Step

Step 2 (wu-palmer@v0.1.0) ✓

Status: **SUCCESS**

Result Quality: **unknown**

Timing: 14:14:32 (11 October 2022) – 14:14:34 (11 October 2022)

Processor: wu-palmer (version v0.1.0)

Processor Location: http://localhost:5005/plugins/wu-palmer%40v0-1-0/

► Result Log
► Parameters

Notes

Type / to use the slash commands...

Output

wu_palmer.zip (version 1)

No Preview Available

Select a Preview Option

Preview With:

Input

entities.json (version 1)

Preview With:
json-visualization

▼ Visualization Options

JSON File

http://host.docker.internal:9090/experiments/1/data/entities.json/download?version=1

choose file

QHAna

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Search plugins

Load Data Plugin for loading costume data 1/1

Data Preperation Plugins for Data Preparation 1/5

Aggregators(@v0.1.0)

Multidimensional Scaling (MDS)(@v0.1.0)

Similarities to distances transformers(@v0.1.0)

Sym Max Mean attribute comparer(@v0.1.0) (selected)

Wu Palmer similarities(@v0.1.0) ✓ 6 minutes ago

Quantum Part Plugin for Quantum Algorithm 0/2

Visualization Plugin for Visualization 0/1

Experiment Workspace

> Sym Max Mean attribute comparer (@v0.1.0)

attribute-similarity-comparison

Compares attributes and returns similarity values.

Entities URL:
 choose file

Selected File: entities.json (v1) raw - application/json
URL to a file with entities.

Element similarities URL:
 choose file

Selected File: wu_palmer.zip (v1) element-similarities - application/zip
URL to a zip file with the element similarities for the entities.

Attributes

`dominanterFarbe
dominanterZustand
dominantereCharaktereigenschaft
dominanterAlterserindruck
genre`

Attributes that shall be compared with Sym Max Mean.

validate submit

localhost:4200/experiments/1/workspace/muse/data-preparation/sym-max-mean@v0.1.0

QHAna Info Workspace Data Timeline

Workshop

Timeline Step

Step 3 (sym-max-mean@v0.1.0) ✓

Status: **SUCCESS**

Result Quality: unknown

Timing: 14:22:01 (11 October 2022) – 14:22:03 (11 October 2022)

Processor: sym-max-mean (version v0.1.0)

Processor Location: http://localhost:5003/plugins/sym-max-mean%40v0-1-0/

► Result Log
► Parameters

Notes

Type / to use the slash commands...

Output

[sym_max_mean.zio \(version 1\)](#) Preview With:

No Preview Available
Select a Preview Option

Input

[entities.json \(version 1\)](#) Preview With: json-visualization

▼ Visualization Options

JSON File choose file

Template
MUSE

Search plugins

Load Data Plugin for loading costume data 1/1 ▾

Data Preparation Plugins for Data Preparation 2/5 ▾

Aggregators(@v0.1.0)

Multidimensional Scaling (MDS)(@v0.1.0)

Similarities to distances transformers(@v0.1.0) (1)

Sym Max Mean attribute comparer(@v0.1.0) ✓ just now

Wu Palmer similarities(@v0.1.0) ✓ 8 minutes ago

Quantum Part Plugin for Quantum Algorithm 0/2 ▾

Visualization Plugin for Visualization 0/1 ▾

Experiment Workspace

> Similarities to distances transformers (@v0.1.0)

sim-to-dist

Transforms similarities to distances.

▶ Help

Attribute similarities URL:

choose file

Selected File: sym_max_mean.zip (v1) attribute_similarities – application/zip

URL to a zip file with the attribute similarities.

Attributes

dominanteFarbe
 dominanterZustand
 dominanteCharaktereigenschaft
 dominanterAltersindruck
 genre

Attributes for which the similarity shall be transformed to distance.

Transformer

Transformer that shall be used to transform the similarities to distances.

validate

submit (1)

QHAna Info Workspace Data Timeline

Timeline Step

Step 4 (sim-to-dist-transformers@v0.1.0) ✓

Status: **SUCCESS**

Result Quality: **unknown**

Timing: 14:23:12 (11 October 2022) – 14:23:14 (11 October 2022)

Processor: sim-to-dist-transformers (version v0.1.0)

Processor Location: http://localhost:5005/plugins/sim-to-dist-transformers%40v0-1-0/

► Result Log
► Parameters

Notes

Type / to use the slash commands...

Output

[attr_dist.zip \(version 1\)](#) Preview With:

No Preview Available
Select a Preview Option

Input

[sym_max_mean_zie.zip \(version 1\)](#) Preview With:

No Preview Available
Select a Preview Option

QHAna Info Workspace Data Timeline Workshop

Template MUSE

Search plugins

Load Data Plugin for loading costume data 1/1

Data Preparation Plugins for Data Preparation 3/5

Aggregators(@v0.1.0) **(circled)**

Multidimensional Scaling (MDS)(@v0.1.0)

Similarities to distances transformers(@v0.1.0) **(green checkmark)**

Sym Max Mean attribute comparer(@v0.1.0) **(green checkmark)**

Wu Palmer similarities(@v0.1.0) **(green checkmark)**

Quantum Part Plugin for Quantum Algorithm 0/2

Visualization Plugin for Visualization 0/1

Experiment Workspace

> Aggregators (@v0.1.0)

aggregator

Aggregates attribute distances to entity distances.

Attribute distances URL: choose file

Selected File: attr_dist.zip (v1) attribute_distances – application/zip
URL to a zip file with the attribute distances.

Aggregator:

Aggregator that shall be used to aggregate the attribute distances to a single distance value.

validate submit **(circled)**

QHAna Info Workspace Data Timeline

Workshop

Timeline Step

Step 5 (distance-aggregator@v0.1.0) ✓

Status: **SUCCESS**

Result Quality: unknown

Timing: 14:24:13 [11 October 2022] – 14:24:14 [11 October 2022]

Processor: distance-aggregate (version v0.1.0)

Processor Location: http://localhost:5005/plugins/distance-aggregator%40v0-1-0/

► Result Log
► Parameters

Notes

Type / to use the slash commands...

Output

[entity_distances.json \(version 1\)](#) Preview With: json-visualization

▼ Visualization Options

JSON File

choose file

The URL to a JSON file.

QHAna Info Workspace Data Timeline Workshop

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Search plugins

Load Data Plugin for loading costume data 1/1

Data Preperation Plugins for Data Preparation 4/5

Aggregators(@v0.1.0) ✓ just now

Multidimensional Scaling (MDS)(@v0.1.0) **(circled)**

Similarities to distances transformers(@v0.1.0) ✓ 1 minute ago

Sym Max Mean attribute comparer(@v0.1.0) ✓ 3 minutes ago

Wu Palmer similarities(@v0.1.0) ✓ 10 minutes ago

Quantum Part Plugin for Quantum Algorithm 0/2

Visualization Plugin for Visualization 0/1

Experiment Workspace

> Multidimensional Scaling (MDS) (@v0.1.0)

dist-to-points

Converts distance values (distance matrix) to points in a space.

Entity distances URL
http://host.docker.internal:9090/experiments/1/data/entity_distances.json/download?version=1 choose file

Selected File: entity_distances.json (v1) entity-distances - application/json URL to a json file with the entity distances.

Dimensions
2

Number of dimensions the output will have.

Metric
Metric MDS

Type of MDS that will be used.

SMACOF executions
4

Number of times SMACOF will be executed with different initial values.

SMACOF max iterations
300

Maximum number of SMACOF iterations.

validate submit **(circled)**

QHAna Info Workspace Data Timeline

Workshop

Timeline Step

Step 6 (mds@v0.1.0) ✓

Status: **SUCCESS**

Result Quality: unknown

Timing: 14:25:23 (11 October 2022) – 14:25:25 (11 October 2022)

Processor: mds (version v0.1.0)

Processor Location: http://localhost:5005/plugins/mds%40v0-1-0/

► Result Log
► Parameters

Notes

Type / to use the slash commands...

Output

[entity_points.json \(version 1\)](#) Preview With: json-visualization

▼ Visualization Options

JSON File

choose file

The URL to a JSON file.

QHAna Info Workspace Data Timeline Workshop

Template MUSE

Search plugins

Load Data Plugin for loading costume data 1/1

Data Preparation Plugins for Data Preparation 5/5

Quantum Part Plugin for Quantum Algorithm 0/2

nisq-analyzer(@v0.1.0)

Quantum k-means(@v0.1.0)

Visualization Plugin for Visualization 0/1

Experiment Workspace

> Quantum k-means (@v0.1.0)

points-to-clusters k-means

K-means algorithms that can run on quantum computers.

Entity points URL
http://host.docker.internal:9090/experiments/1/data/entity_points.json?download?version=1 choose file

Selected File: entity_points.json (v1) entity-points - application/json
URL to a json file with the entity points.

Number of clusters
2

Number of clusters that shall be found.

Variant
Negative Rotation

Variant of quantum k-means that will be used.

Backend
aer_statevector_simulator

QC or simulator that will be used.

IBMQ Token

Token for IBMQ.

Custom backend

Custom backend for IBMQ.

validate submit

QHAna Info Workspace Data Timeline

Workshop

Timeline Step

Step 7 (quantum-k-means@v0.1.0) ✓

Status: ✓ SUCCESS

Result Quality: unknown

Timing: 14:26:53 (11 October 2022) – 14:26:56 (11 October 2022)
Processor: quantum-k-means (version v0.1.0)
Processor Location: http://localhost:5005/plugins/quantum-k-means%40v0-1-0/
► Result Log
► Parameters

Notes

Type / to use the slash commands...

Output

[clusters.json \(version 1\)](#) Preview With: json-visualization

▼ Visualization Options

JSON File: choose file

The URL to a JSON file.

Template
MUSE

Search plugins

Load Data	Plugin for loading costume data	1/1
Data Preparation	Plugins for Data Preparation	5/5
Quantum Part	Plugin for Quantum Algorithm	1/2
Visualization	Plugin for Visualization	0/1
Visualization(@v0.1.0)		

Experiment Workspace

> Visualization (@v0.1.0)

visualization

Plots points with cluster information.

Entity points URL:

`http://host.docker.internal:9090/experiments/1/data/entity_points.json/download?version=1`

choose file

Selected File: entity_points.json (v1) entity-points - application/json

URL to a json file with the entity points.

Clusters URL:

`http://host.docker.internal:9090/experiments/1/data/clusters.json/download?version=1`

choose file

Selected File: clusters.json (v1) clusters - application/json

URL to a json file with the clusters.

validate

submit

QHAna Info Workspace Data Timeline

Workshop

Timeline Step

Step 8 (visualization@v0.1.0) ✓

Status: **SUCCESS**

Result Quality: unknown

Timing: 14:28:13 (11 October 2022) - 14:28:15 (11 October 2022)

Processor: visualization (version v0.1.0)

Processor Location: http://localhost:5005/plugins/visualization%40v0-1-0/

► Result Log
► Parameters

Notes

Type / to use the slash commands...

Output

plot.html (version 1)

Preview With: **HTML Preview**

A scatter plot with a light blue background grid. The x-axis has tick marks at 0.1, 0.2, and 0.3. The y-axis has tick marks at 0.1, 0.2, and 0.3. There are two distinct clusters of data points. Cluster 0, represented by blue circles, has points located at approximately (0.12, 0.1), (0.15, 0.1), (0.18, 0.1), (0.22, 0.1), (0.25, 0.15), (0.28, 0.25), and (0.3, 0.3). Cluster 1, represented by red diamonds, has points located at approximately (0.22, 0.25), (0.25, 0.28), and (0.28, 0.28).