

ECIU workbook - part I - 28.4.2022

Workbook modified 16.5.2022

TOKENS

```
"company": "ECIU5",  
"token": "nw8oCGWxU0S3Q0mdjEY2hrPO7zsivs95"
```

```
"company": "ECIU6",  
"token": "T6AglQFnC6FiDBcgBawNwi3M5hScAdMz"
```

```
"company": "ECIU7",  
"token": "rfIMPP7eziQ4fSzPlwiqsCVDoqlO4ldV"
```

```
"company": "ECIU8",  
"token": "OP77Kn2Eear7NFTo0aJQw69lSu0ch8v0"
```

STORY 1

1.1 BUILD GRAPH

Build Graph Map out of text. Data can be cached for future analysis purposes or result can be stored if wanted later on. Also in privacy mode nothing is stored. Send data in header or in url (get/post)

Endpoint:

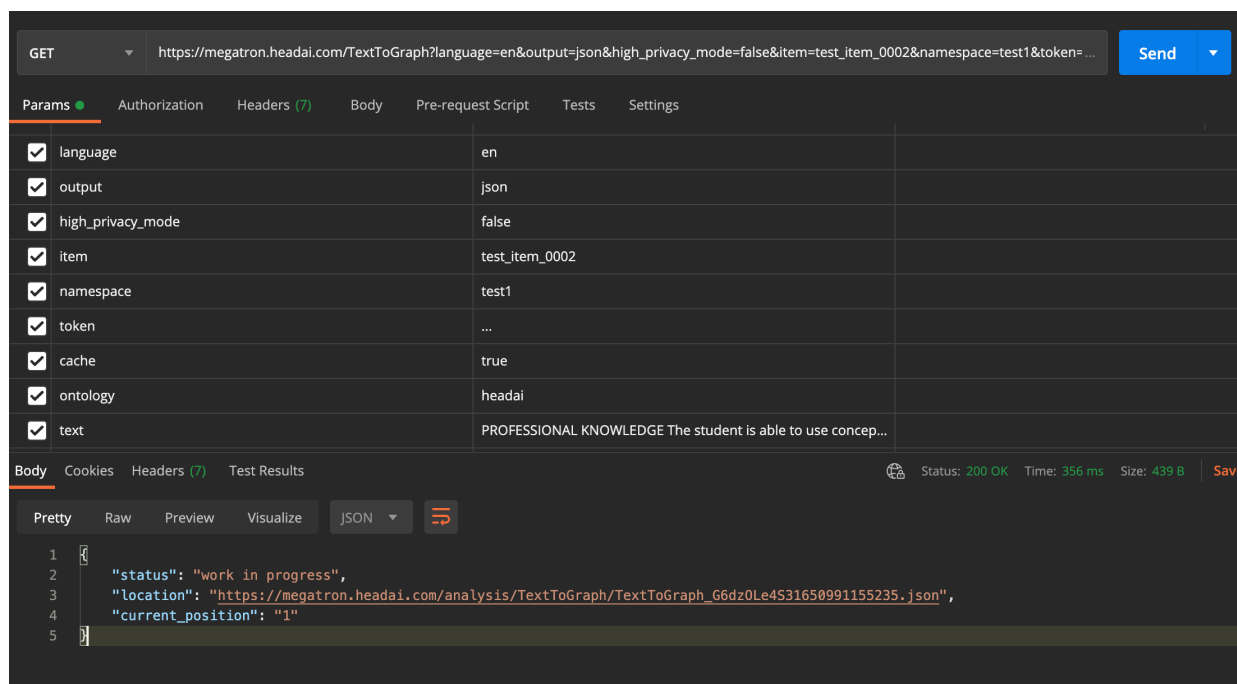
- <https://megatron.headai.com/TextToGraph?>

Variables:

- token: [token]
- language: [en, fi]
- text: [free text]
- high_privacy_mode: [true, false, empty] || false or empty -> results will be stored with private URL and into cache, true -> nothing will be stored, not even cached (overrides cache)
- namespace: [namespace to use with item, eg. school identifier]
- cache: [true -> stores path to our database for future compass]
- ontology: [default headai]
- item: [id to item, eg. course code]
- output: [json]
- update: [boolean]

Quickstart: C&P to Postman

```
https://megatron.headai.com/TextToGraph?
language=en&output=json&high_privacy_mode=true&item=item&namespace=namespace&tok
en=token&cache=true&ontology=headai&text=PROFESSIONAL KNOWLEDGE The student is
able to use concepts and knowledge in elderly care and gerontology fluently and
comprehensively assess and use information sources and research information with
a critical eye PROFESSIONAL SKILLS ...
```



Json can be accessed through the URL given in response.

https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G6dz0Le4S31650991155235.json

1.2. CHECK & GET THE URL / ITEM IF MISSING

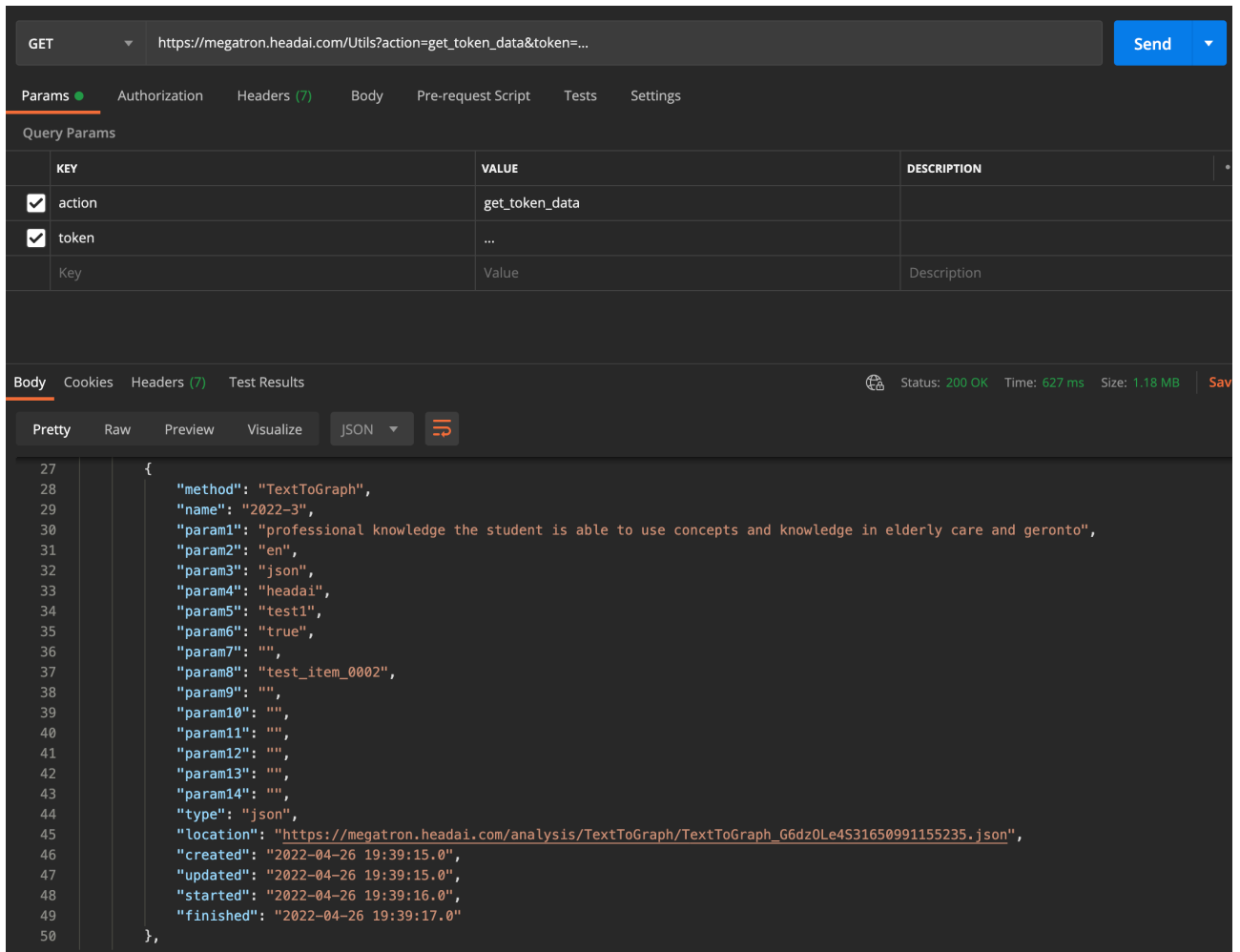
Check single piece of your data or any of your processed data sets. High_privacy_mode=true disables this and no data is collected. Not even logged, you are on your own.

Endpoint:

- <https://megatron.headai.com/Utils?>

Variables:

- token: [token]
- action: get_token_data



GET https://megatron.headai.com/Utils?action=get_token_data&token=... Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE	DESCRIPTION
☒	action	get_token_data	
☒	token	...	
	Key	Value	Description

Body Cookies Headers (7) Test Results Status: 200 OK Time: 627 ms Size: 1.18 MB Save

Pretty Raw Preview Visualize JSON

```

27 {
28   "method": "TextToGraph",
29   "name": "2022-3",
30   "param1": "professional knowledge the student is able to use concepts and knowledge in elderly care and geronto",
31   "param2": "en",
32   "param3": "json",
33   "param4": "headai",
34   "param5": "test1",
35   "param6": "true",
36   "param7": "",
37   "param8": "test_item_0002",
38   "param9": "",
39   "param10": "",
40   "param11": "",
41   "param12": "",
42   "param13": "",
43   "param14": "",
44   "type": "json",
45   "location": "https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G6dz0Le4S31650991155235.json",
46   "created": "2022-04-26 19:39:15.0",
47   "updated": "2022-04-26 19:39:15.0",
48   "started": "2022-04-26 19:39:16.0",
49   "finished": "2022-04-26 19:39:17.0"
50 },
  
```

Quickstart: C&P to Postman

https://megatron.headai.com/Utils?action=get_token_data&token=...

Response

```
{
  method: "TextToGraph",
  name: "2022-3",
  param1: "professional knowledge...",
  param2: "en",
  param3: "json",
  param4: "headai",
  param5: "test1",
  param6: "true",
  param7: "",
  param8: "test_item_0002",
  param9: "",
  param10: "",
  param11: "",
  param12: "",
  param13: "",
  param14: "",
  type: "json",
  location: "https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G6dzOLe4S31650991155235.json",
  created: "2022-04-26 19:39:15.0",
  updated: "2022-04-26 19:39:15.0",
  started: "2022-04-26 19:39:16.0",
  finished: "2022-04-26 19:39:17.0"
},
```

param8=item

1.3. VISUALIZE THE DATA

Name: Map Customizer for SDG

Description: A graphical interface to modify scorecard & generic graph JSONs

Endpoint: <https://megatron.headai.com/mapCustomizerForSDG.html?>

Parameters:

json_url -> URL of the JSON to visualize

type -> Defines the shape of the MindMap
Supported values are -> ['square' , 'hexagon']
Default value is 'hexagon'

scale -> Defines the numerical scale that will be used for the colors of each concept
Supported values are -> ['sqrt' , 'log' , 'linear' , 'pow' , 'flat']
Default value is 'flat'

fontFamily -> FontFamily of all the text labels in the visualization.
Supported values are ['serif' , 'sans-serif' , 'cursive' , 'monospace']

fontSize -> FontSize of all the text labels in the visualization.
Supported values are -> [10 , 11 , 12 , 13 , 14]

colors -> Hexadecimal code of the colors, separated by a comma and without character '#'.
Example: "A0A000,F000F0"

backgroundColor -> Hexadecimal color for the Background of the Map
The code of the color must be written in the URL without character '#'.
Default value is "F9F9F9"

strokeColor -> Hexadecimal color for the strokes that separate non-related concepts

hideNumbers -> Boolean that defines if the value of each concept is displayed in the title or not.
Default value is true.

cleanMode -> Boolean that defines if CleanMode is enabled or not.
Clean Mode allows you to remove concepts when you click over them.
Default value is false.

relevancyMode -> Boolean that defines if the visualization will display the 5 weights
I.e. how meaningful is each concept.
This mode shows the 5 different weights with different colors.
Default value is false.

iframe -> Boolean that defines if chart is adjusted to fit the full HTML parent container
Default value is false.

Quickstart: C&P to browser (Firefox and Chrome supported, Safari and Edge have known issues)
https://megatron.headai.com/mapCustomizerForSDG.html?json_url=https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G6dzOLe4S31650991155235.json&colors=FCC30B,c89f81,d9d9d9&iframe=true&x=100&y=0&scale=flat&type=hexagon&fontSize=12&fontFamily=arial&backgroundColor=&strokeColor=gray&hideNumbers=false&relevancyMode=false

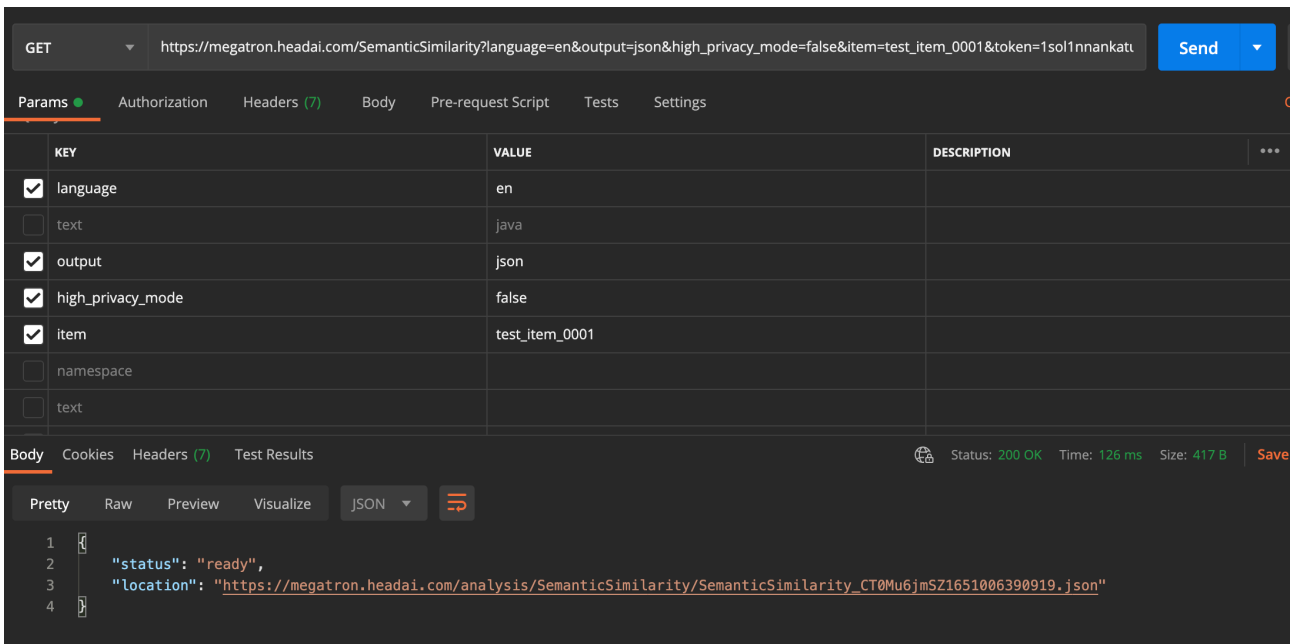
STORY 2

2.1. MATCHING WITH CACHED ITEMS

Match data and return list of matching items with score and reasoning

Variables:

token: [token]
 language: [en, fi]
 high_privacy_mode: [true, false, empty]
 false or empty -> results will be stored,
 true -> nothing will be stored
 namespace: [namespace to limit similarity check]
 cache: [true -> stores path to our database for future compass]
 ontology: [default headai]
 item: [item to be compared]
 output: [json]



GET https://megatron.headai.com/SemanticSimilarity?language=en&output=json&high_privacy_mode=false&item=test_item_0001&token=1sol1nnankati Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

KEY	VALUE	DESCRIPTION	...
☒ language	en		
☐ text	java		
☒ output	json		
☒ high_privacy_mode	false		
☒ item	test_item_0001		
☐ namespace			
☐ text			

Body Cookies Headers (7) Test Results Status: 200 OK Time: 126 ms Size: 417 B Save

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": "ready",
3   "location": "https://megatron.headai.com/analysis/SemanticSimilarity/SemanticSimilarity_CT0Mu6jmSZ1651006390919.json"
4 }
  
```

Quickstart: C&P to Postman

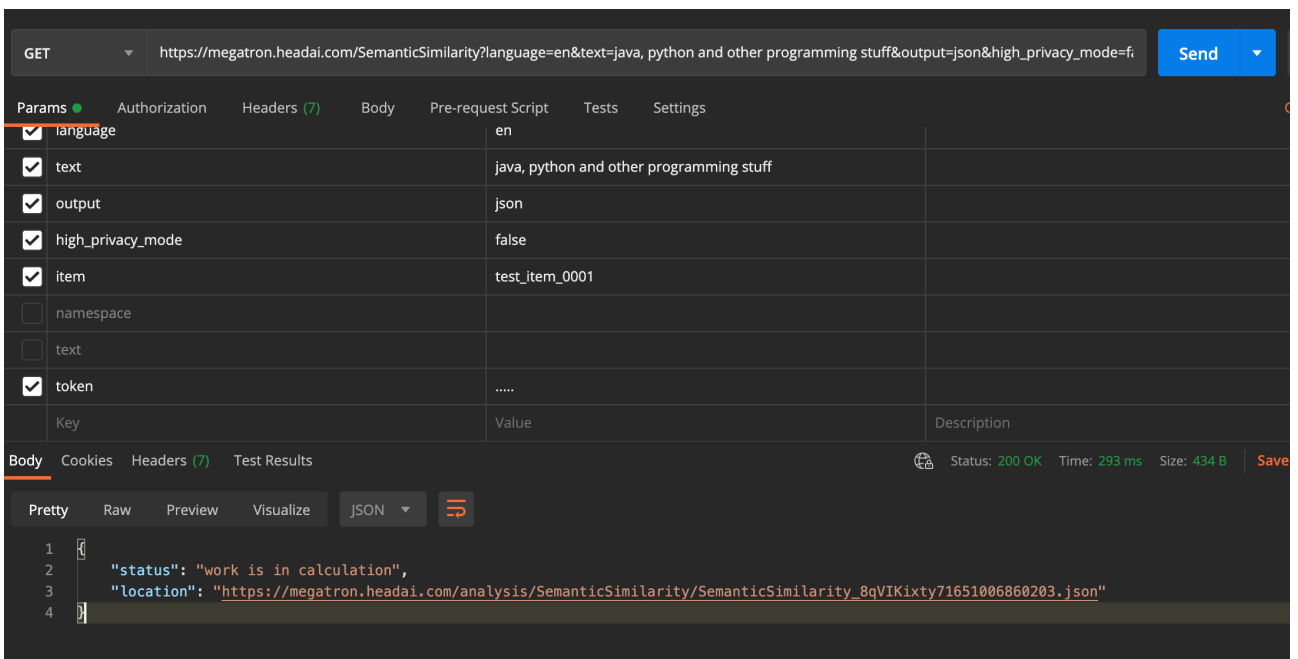
[https://megatron.headai.com/SemanticSimilarity?](https://megatron.headai.com/SemanticSimilarity?language=en&output=json&high_privacy_mode=false&item=test_item_0001&token=...)
[language=en&output=json&high_privacy_mode=false&item=test_item_000](https://megatron.headai.com/SemanticSimilarity?language=en&output=json&high_privacy_mode=false&item=test_item_0001&token=...)
[1&token=...](https://megatron.headai.com/SemanticSimilarity?language=en&output=json&high_privacy_mode=false&item=test_item_0001&token=...)

Match data and return list of matching items with score and reasoning

2.2. MATCHING WITH SEARCH TEXT

Variables:

token: [token]
 language: [en, fi]
 text: [free text, if given -> ignores item and does check with given text]
 namespace: [namespace to limit similarity check]
 cache: [true -> stores path to our database for future compass]
 ontology: [default headai]
 item: [item to be compared]
 output: [json]



GET https://megatron.headai.com/SemanticSimilarity?language=en&text=java, python and other programming stuff&output=json&high_privacy_mode=false&item=test_item_0001&token=..... Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Key	Value	Description
☒ language	en	
☒ text	java, python and other programming stuff	
☒ output	json	
☒ high_privacy_mode	false	
☒ item	test_item_0001	
☐ namespace		
☐ text		
☒ token		

Body Cookies Headers (7) Test Results

Status: 200 OK Time: 293 ms Size: 434 B Save

Pretty Raw Preview Visualize JSON

```

1  {
2    "status": "work is in calculation",
3    "location": "https://megatron.headai.com/analysis/SemanticSimilarity/SemanticSimilarity_8qVIKixty71651006860203.json"
4  }
  
```

Quickstart: C&P to Postman

https://megatron.headai.com/SemanticSimilarity?language=en&text=java, python and other programming stuff&output=json&high_privacy_mode=false&item=test_item_0001&token=.....

2.3. MATCHING WITH SEARCH TEXT SETS

Variables:

- token: [token]
- language: [en, fi]
- text: [free text, if given -> ignores item and does check with given text]
- namespace: [namespace to limit similarity check]
- cache: [true -> stores path to our database for future compass]
- ontology: [default headai]
- output: [json]
- compare_list: [TODO to be announced]

Quickstart: C&P to Postman

TODO

STORY 7

7.1. BUILD A SCORECARD WITH ITEM -ID

endpoint: https://megatron.headai.com/mc_api?action=DoScorecard

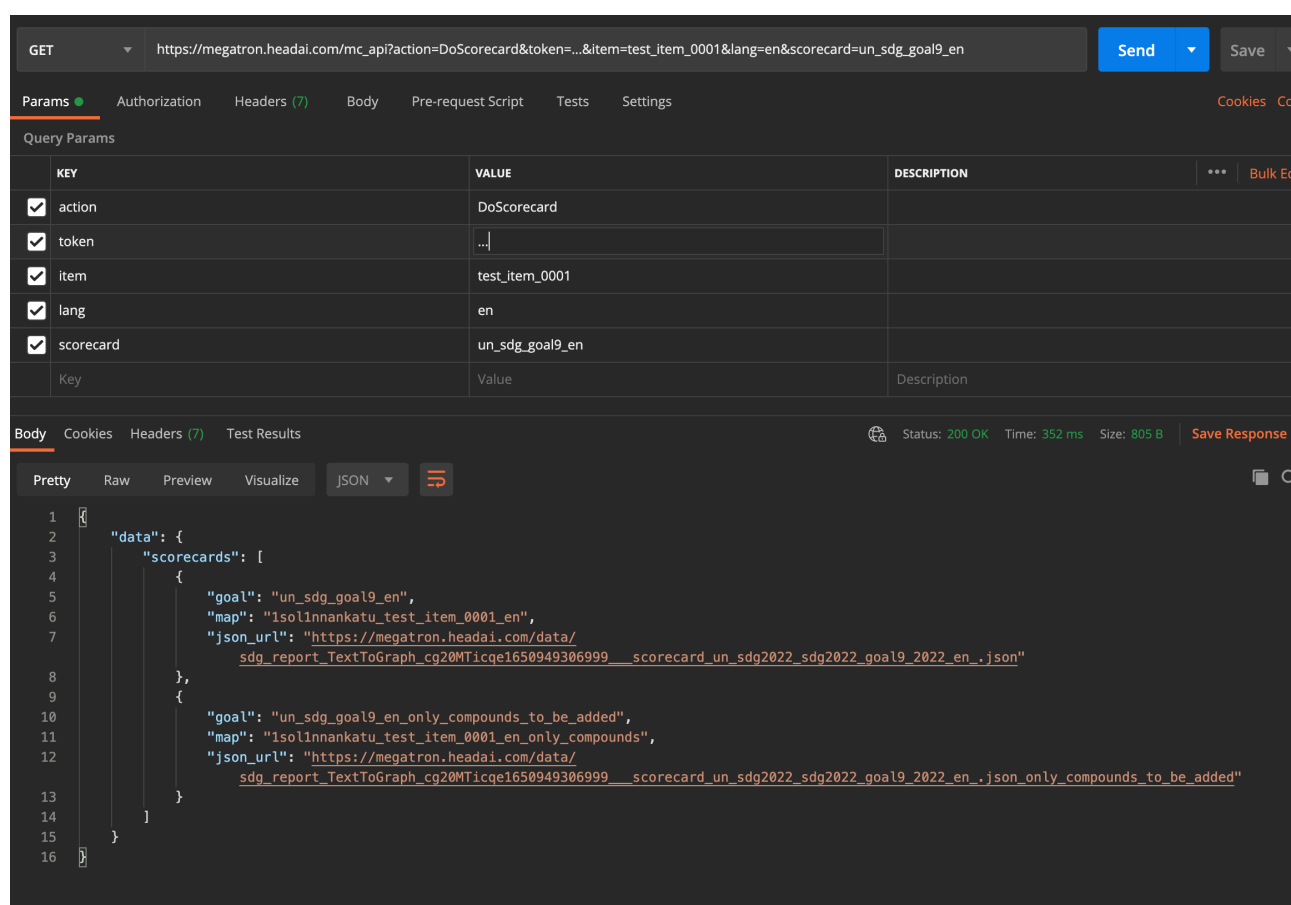
Parameters:

token: given token

item: item -id given when building a map with TextToGraph

lang: [en,fi]

scorecard: name from scorecard list, section 7.4. Available Scorecards



The screenshot shows a Postman interface for a GET request to `https://megatron.headai.com/mc_api?action=DoScorecard&token=...&item=test_item_0001&lang=en&scorecard=un_sdg_goal9_en`. The query parameters are listed in a table below.

KEY	VALUE	DESCRIPTION
☒ action	DoScorecard	
☒ token	...	
☒ item	test_item_0001	
☒ lang	en	
☒ scorecard	un_sdg_goal9_en	
Key	Value	Description

The response body is shown in JSON format:

```

1  {
2    "data": {
3      "scorecards": [
4        {
5          "goal": "un_sdg_goal9_en",
6          "map": "isolinnankatu_test_item_0001_en",
7          "json_url": "https://megatron.headai.com/data/
8            sdg_report_TextToGraph_cg20MTicqe1650949306999__scorecard_un_sdg2022_sdg2022_goal9_2022_en.json"
9        },
10       {
11         "goal": "un_sdg_goal9_en_only_compounds_to_be_added",
12         "map": "isolinnankatu_test_item_0001_en_only_compounds",
13         "json_url": "https://megatron.headai.com/data/
14           sdg_report_TextToGraph_cg20MTicqe1650949306999__scorecard_un_sdg2022_sdg2022_goal9_2022_en.json_only_compounds_to_be_added"
15       }
16     ]
17   }
18 }

```

Quickstart: C&P to Postman

`https://megatron.headai.com/Scorecard&token=.....&item=https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G6dzOLe4S31650991155235.json&lang=en&scorecard=un_sdg_goal9_en`

7.2 BUILD A SCORECARD WITH URL

endpoint: https://megatron.headai.com/mc_api?action=DoScorecard

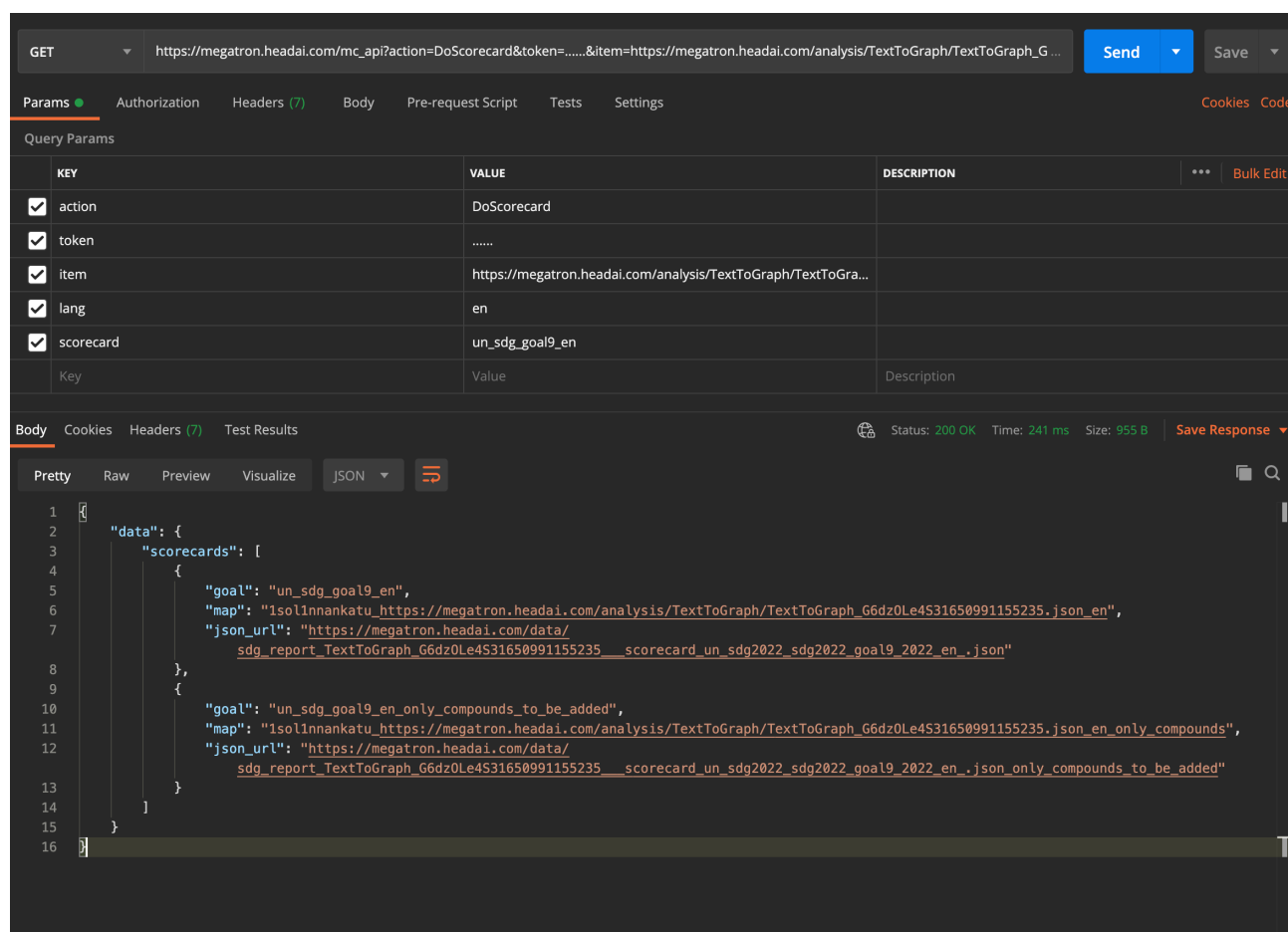
Parameters:

token: given token

item: Json URL (can be located in any domain)

lang: [en,fi]

scorecard: name from scorecard list, section 7.4. Available Scorecards



GET https://megatron.headai.com/mc_api?action=DoScorecard&token=.....&item=https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G... Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
☒ action	DoScorecard	
☒ token		
☒ item	https://megatron.headai.com/analysis/TextToGraph/TextToGra...	
☒ lang	en	
☒ scorecard	un_sdg_goal9_en	
Key	Value	Description

Body Cookies Headers (7) Test Results Status: 200 OK Time: 241 ms Size: 955 B Save Response

Pretty Raw Preview Visualize JSON

```

1  {
2    "data": {
3      "scorecards": [
4        {
5          "goal": "un_sdg_goal9_en",
6          "map": "isolinnankatu_https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G6dz0Le4S31650991155235.json_en",
7          "json_url": "https://megatron.headai.com/data/
8            sdg_report_TextToGraph_G6dz0Le4S31650991155235_scorecard_un_sdg2022_sdg2022_goal9_2022_en.json"
9        },
10       {
11         "goal": "un_sdg_goal9_en_only_compounds_to_be_added",
12         "map": "isolinnankatu_https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G6dz0Le4S31650991155235.json_en_only_compounds",
13         "json_url": "https://megatron.headai.com/data/
14           sdg_report_TextToGraph_G6dz0Le4S31650991155235_scorecard_un_sdg2022_sdg2022_goal9_2022_en.json_only_compounds_to_be_added"
15       }
16     ]
17   }

```

Quickstart: C&P to Postman

https://megatron.headai.com/Scorecard&token=...&item=https://megatron.headai.com/analysis/TextToGraph/TextToGraph_G6dz0Le4S31650991155235.json&lang=en&scorecard=un_sdg_goal9_en

Response in both cases:

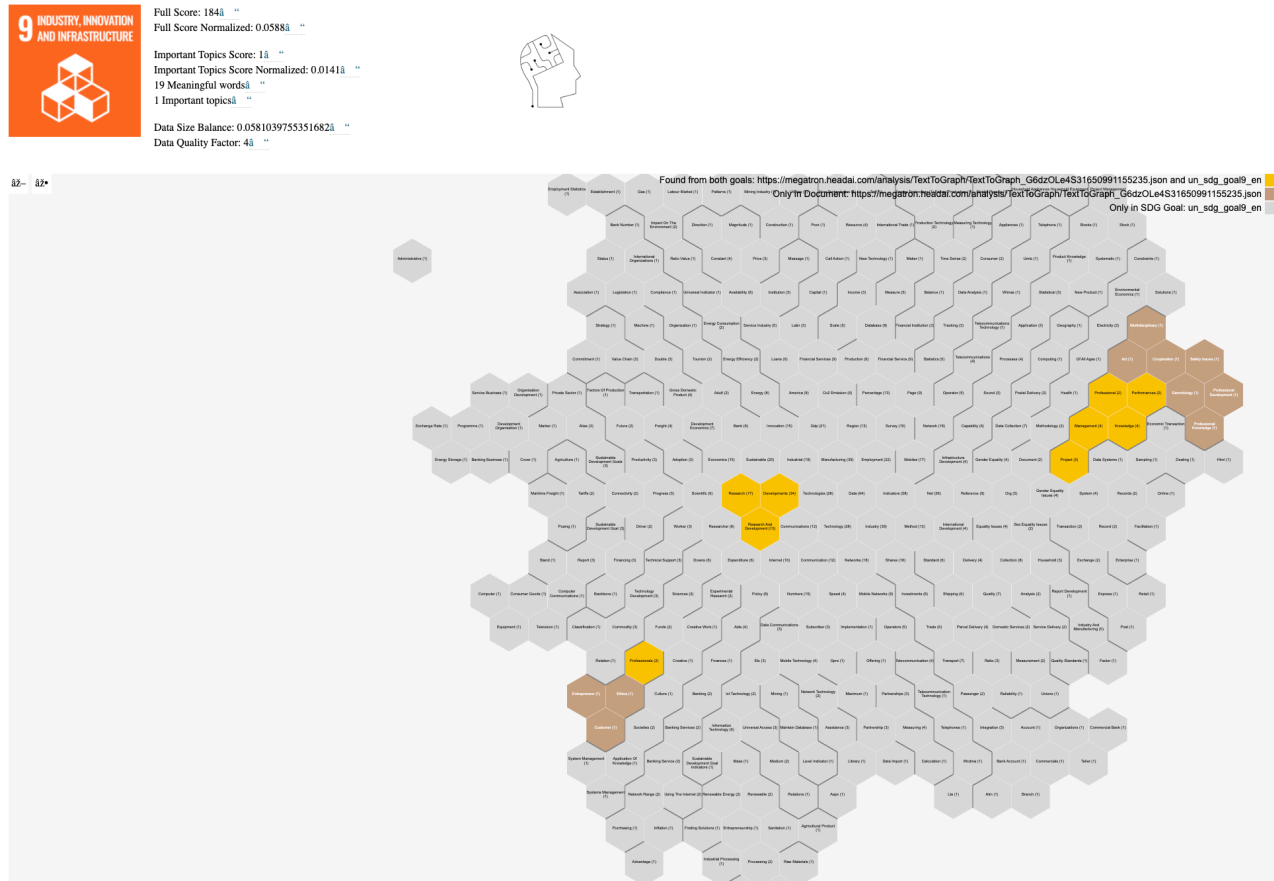
```
{
  "data": {
    "scorecards": [
      {
        "goal": "un_sdg_goal9_en",
        "map": "token_https://megatron.headai.com/analysis/TextT...",
        "json_url": "https://megatron.headai.com/data/sdg_report_TextToG..."
      },
      {
        "goal": "un_sdg_goal9_en_only_compounds",
        "map": "token_https://megatron.headai.com/analysis/TextToGraph/TextTo...",
        "json_url": "https://megatron.headai.com/data/sdg_report_TextToGraph_G..."
      }
    ]
  }
}
```

Scorecards will be stored into "1.2. CHECK & GET THE URL / ITEM IF MISSING" if "high_privacy_mode=false" or parameter is missing (default=false)

7.3. VISUALIZE THE DATA

https://megatron.headai.com/mapCustomizerForSDG.html?json_url=https://megatron.headai.com/data/sdg_report_TextToGraph_G6dzOLe4S31650991155235__scorecard_un_sdg2022_sdg2022_goal9_2022_en_.json&colors=FCC30B,c89f81,d9d9d9&iframe=true&x=100&y=0&scale=flat&type=hexagon&fontSize=12&fontFamily=arial&backgroundcolor=&strokeColor=gray&hideNumbers=false&relevancyMode=false

HeadAI SDG MindSet



Name: Map Customizer for SDG

Description: A graphical interface to modify scorecard & generic graph JSONs

Endpoint: [https://megatron.headai.com/mapCustomizerForSDG.html?](https://megatron.headai.com/mapCustomizerForSDG.html?https://megatron.headai.com/IFrame.html?)
<https://megatron.headai.com/IFrame.html?>

Parameters:

json_url -> URL of the JSON to visualize

type -> Defines the shape of the MindMap

Supported values are -> ['square', 'hexagon']

Default value is 'hexagon'

- scale -> Defines the numerical scale that will be used for the colors of each concept
Supported values are -> ['sqrt' , 'log' , 'linear' , 'pow' , 'flat']
Default value is 'flat'
- fontFamily -> FontFamily of all the text labels in the visualization.
Supported values are ['serif' , 'sans-serif' , 'cursive' , 'monospace']
- fontSize -> FontSize of all the text labels in the visualization.
Supported values are -> [10 , 11 , 12 , 13 , 14]
- colors -> Hexadecimal code of the colors, separated by a comma and without character '#'.
Example: "A0A000,F000F0"
- backgroundColor -> Hexadecimal color for the Background of the Map
The code of the color must be written in the URL without character '#'.
Default value is "F9F9F9"
- strokeColor -> Hexadecimal color for the strokes that separate non-related concepts
- hideNumbers -> Boolean that defines if the value of each concept is displayed in the title or not.
Default value is true.
- cleanMode -> Boolean that defines if CleanMode is enabled or not.
Clean Mode allows you to remove concepts when you click over them.
Default value is false.
- relevancyMode -> Boolean that defines if the visualization will display the 5 weights
I.e. how meaningful is each concept.
This mode shows the 5 different weights with different colors.
Default value is false.
- iframe -> Boolean that defines if chart is adjusted to fit the full HTML parent container
Default value is false.

Spider & Radar

Match/matc+sdg

Jessica handpicks the concepts, she decides the number of cluster centers
Andres designs a d3js radar

SummarizeMaps

7.4 AVAILABLE SCORECARDS

- un_sdg_goal1_en
- un_sdg_goal2_en
- un_sdg_goal3_en
- un_sdg_goal4_en
- un_sdg_goal5_en
- un_sdg_goal6_en
- un_sdg_goal7_en
- un_sdg_goal8_en
- un_sdg_goal9_en
- un_sdg_goal10_en
- un_sdg_goal11_en
- un_sdg_goal12_en
- un_sdg_goal13_en
- un_sdg_goal14_en
- un_sdg_goal15_en
- un_sdg_goal16_en
- un_sdg_goal17_en
-
- community_sdg2022_goal1_en
- community_sdg2022_goal2_en
- community_sdg2022_goal3_en
- community_sdg2022_goal4_en
- community_sdg2022_goal5_en
- community_sdg2022_goal6_en
- community_sdg2022_goal7_en
- community_sdg2022_goal8_en
- community_sdg2022_goal9_en
- community_sdg2022_goal10_en
- community_sdg2022_goal11_en
- community_sdg2022_goal12_en
- community_sdg2022_goal13_en
- community_sdg2022_goal14_en
- community_sdg2022_goal15_en
- community_sdg2022_goal16_en
- community_sdg2022_goal17_en
-
- un_sdg_goal1_fi
- un_sdg_goal2_fi
- un_sdg_goal3_fi
- un_sdg_goal4_fi
- un_sdg_goal5_fi
- un_sdg_goal6_fi
- un_sdg_goal7_fi
- un_sdg_goal8_fi
- un_sdg_goal9_fi
- un_sdg_goal10_fi
- un_sdg_goal11_fi
- un_sdg_goal12_fi
- un_sdg_goal13_fi
- un_sdg_goal14_fi
- un_sdg_goal15_fi
- un_sdg_goal16_fi
- un_sdg_goal17_fi

STORY 3