

simple_processing

April 22, 2022

1 Prétraitement des logs

Traitements de logs générés par un QCM.

```
[1]: from jyquickhelper import add_notebook_menu
      add_notebook_menu()
```

```
[1]: <IPython.core.display.HTML object>
```

```
[2]: %matplotlib inline
```

1.1 Observations brutes

```
[3]: import os
      names = [os.path.join("logs", _) for _ in os.listdir("logs") if '.log' in _]
      names = names[-1:]
      names
```

```
[3]: ['logs\\QCMApp.log']
```

```
[4]: with open(names[0], 'r', encoding="utf-8") as f:
      lines = f.readlines()
      lines[5:7]
```

```
[4]: ['2018-12-12 17:56:29,989,INFO,[DATA],{"msg":"qcm","session":{"alias":"xavierd"},
      "client":["167.220.197.38",6274],"game":"simple_french_qcm","qn":"0"}\n',
      '2018-12-12 17:56:33,130,INFO,[DATA],{"msg":"event","session":{"alias":"xavierd"},
      "client":["167.220.197.38",6274],"events":["focus:true,game:simple_french_qcm,
      qn:0"]}\n']
```

Let's retrieve the expected answers from the QCM.

```
[5]: from mathenjeu.tests import simple_french_qcm
      qcm = simple_french_qcm()
      expected = qcm.expected_answers()
      expected
```

```
[5]: [['simple_french_qcm-0-a0'],
      ['simple_french_qcm-1-a2'],
      ['simple_french_qcm-2-a2'],
      ['simple_french_qcm-3-a3'],
      ['simple_french_qcm-4-a2'],
```

```

['simple_french_qcm-5-a0', 'simple_french_qcm-5-a2'],
['simple_french_qcm-6-a5'],
['simple_french_qcm-7-a2'],
['simple_french_qcm-8-Thalès']]

```

```

[6]: import pandas
      from mathenjeu.datalog import enumerate_qcmlogdf
      dfs = pandas.concat(list(enumerate_qcmlogdf(names, expected)))
      dfs.T

```

```

[6]: person_id          c241c15008614ea67480    32606f02fa0df6aac111  \
      simple_french_qcm-0-a0                1                NaN
      simple_french_qcm-0-b                1                NaN
      simple_french_qcm-0-duration  0 days 00:00:04.266000        NaT
      simple_french_qcm-0-good                1                NaN
      simple_french_qcm-0-nbvisit            1                NaN
      simple_french_qcm-5-a0                1                NaN
      simple_french_qcm-5-a1                1                NaN
      simple_french_qcm-5-a2                1                NaN
      simple_french_qcm-5-b                1                NaN
      simple_french_qcm-5-duration    1 days 00:00:00            NaT
      simple_french_qcm-5-good                1                NaN
      simple_french_qcm-5-nbvisit            0.5                NaN
      simple_french_qcm-8-ANS                thalès            NaN
      simple_french_qcm-8-b                1                NaN
      simple_french_qcm-8-duration  0 days 00:00:04.390000        NaT
      simple_french_qcm-8-good                0                NaN
      simple_french_qcm-8-nbvisit            1                NaN
      simple_french_qcm-1-a2                NaN                1
      simple_french_qcm-1-b                NaN                1
      simple_french_qcm-1-duration  NaT  0 days 00:00:03.343000
      simple_french_qcm-1-good                NaN                1
      simple_french_qcm-1-nbvisit            NaN                1
      simple_french_qcm-2-a2                NaN                1
      simple_french_qcm-2-b                NaN                1
      simple_french_qcm-2-duration  NaT  0 days 00:00:06.750000
      simple_french_qcm-2-good                NaN                1
      simple_french_qcm-2-nbvisit            NaN                1
      simple_french_qcm-3-a2                NaN                1
      simple_french_qcm-3-a3                NaN                1
      simple_french_qcm-3-b                NaN                1
      simple_french_qcm-3-duration  NaT                1 days 00:00:00
      simple_french_qcm-3-good                NaN                1
      simple_french_qcm-3-nbvisit            NaN                0.5
      simple_french_qcm-4-a2                NaN                1
      simple_french_qcm-4-b                NaN                1
      simple_french_qcm-4-duration  NaT  0 days 00:00:09.688000
      simple_french_qcm-4-good                NaN                1
      simple_french_qcm-4-nbvisit            NaN                1
      simple_french_qcm-6-a3                NaN                1
      simple_french_qcm-6-b                NaN                1
      simple_french_qcm-6-duration  NaT                1 days 00:00:00
      simple_french_qcm-6-good                NaN                0

```

simple_french_qcm-6-nbvisit	NaN	0.5
simple_french_qcm-7-a2	NaN	1
simple_french_qcm-7-b	NaN	1
simple_french_qcm-7-duration	NaT	0 days 00:00:06.390000
simple_french_qcm-7-good	NaN	1
simple_french_qcm-7-nbvisit	NaN	1
simple_french_qcm-3-a0	NaN	NaN
simple_french_qcm-6-a2	NaN	NaN
simple_french_qcm-1-a1	NaN	NaN
simple_french_qcm-4-a0	NaN	NaN
simple_french_qcm-6-a5	NaN	NaN
simple_french_qcm-7-a0	NaN	NaN
-a1	NaN	NaN
on-a2	NaN	NaN
simple_french_qcm-0-a1	NaN	NaN
simple_french_qcm-4-a3	NaN	NaN

person_id	5bd96adafa694996027d	753a507a9205e4c196fa	\
simple_french_qcm-0-a0	1	1	
simple_french_qcm-0-b	1	1	
simple_french_qcm-0-duration	0 days 00:00:06.904000	0 days 00:00:16.530000	
simple_french_qcm-0-good	1	1	
simple_french_qcm-0-nbvisit	1	1	
simple_french_qcm-5-a0	NaN	1	
simple_french_qcm-5-a1	1	NaN	
simple_french_qcm-5-a2	NaN	NaN	
simple_french_qcm-5-b	1	1	
simple_french_qcm-5-duration	0 days 00:00:10.153000	0 days 00:00:11.740000	
simple_french_qcm-5-good	0	1	
simple_french_qcm-5-nbvisit	1	1	
simple_french_qcm-8-ANS	Astérix et Cléopâtre	Prout	
simple_french_qcm-8-b	1	1	
simple_french_qcm-8-duration	0 days 00:03:02.506000	0 days 00:00:14.483000	
simple_french_qcm-8-good	0	0	
simple_french_qcm-8-nbvisit	1	1	
simple_french_qcm-1-a2	2	NaN	
simple_french_qcm-1-b	1001	1	
simple_french_qcm-1-duration	0	0 days 00:00:14.010000	
simple_french_qcm-1-good	2	0	
simple_french_qcm-1-nbvisit	3	1	
simple_french_qcm-2-a2	1	1	
simple_french_qcm-2-b	1	1	
simple_french_qcm-2-duration	0 days 00:00:31.978000	0 days 00:00:28.765000	
simple_french_qcm-2-good	1	1	
simple_french_qcm-2-nbvisit	2	1	
simple_french_qcm-3-a2	NaN	NaN	
simple_french_qcm-3-a3	NaN	NaN	
simple_french_qcm-3-b	1	1	
simple_french_qcm-3-duration	0 days 00:00:19.246000	0 days 00:00:19.492000	
simple_french_qcm-3-good	0	0	
simple_french_qcm-3-nbvisit	1	1	
simple_french_qcm-4-a2	1	NaN	
simple_french_qcm-4-b	1	1	

simple_french_qcm-4-duration	0 days 00:00:21.230000	0 days 00:03:19.593000
simple_french_qcm-4-good	1	0
simple_french_qcm-4-nbvisit	1	1
simple_french_qcm-6-a3	NaN	NaN
simple_french_qcm-6-b	1	1
simple_french_qcm-6-duration	0 days 00:00:20.314000	0 days 00:00:21.868000
simple_french_qcm-6-good	0	1
simple_french_qcm-6-nbvisit	1	1
simple_french_qcm-7-a2	1	NaN
simple_french_qcm-7-b	1	1
simple_french_qcm-7-duration	0 days 00:00:17.141000	0 days 00:00:20.923000
simple_french_qcm-7-good	1	0
simple_french_qcm-7-nbvisit	1	1
simple_french_qcm-3-a0	1	1
simple_french_qcm-6-a2	1	NaN
simple_french_qcm-1-a1	NaN	1
simple_french_qcm-4-a0	NaN	1
simple_french_qcm-6-a5	NaN	1
simple_french_qcm-7-a0	NaN	1
-a1	NaN	NaN
on-a2	NaN	NaN
simple_french_qcm-0-a1	NaN	NaN
simple_french_qcm-4-a3	NaN	NaN

person_id	8a8c40ad28eb1206efd5
simple_french_qcm-0-a0	NaN
simple_french_qcm-0-b	1
simple_french_qcm-0-duration	0 days 00:00:02.920000
simple_french_qcm-0-good	0
simple_french_qcm-0-nbvisit	1
simple_french_qcm-5-a0	NaN
simple_french_qcm-5-a1	NaN
simple_french_qcm-5-a2	NaN
simple_french_qcm-5-b	1000
simple_french_qcm-5-duration	0 days 00:00:02.247000
simple_french_qcm-5-good	0
simple_french_qcm-5-nbvisit	2
simple_french_qcm-8-ANS	
simple_french_qcm-8-b	1
simple_french_qcm-8-duration	0 days 00:00:01.422000
simple_french_qcm-8-good	0
simple_french_qcm-8-nbvisit	1
simple_french_qcm-1-a2	NaN
simple_french_qcm-1-b	NaN
simple_french_qcm-1-duration	NaN
simple_french_qcm-1-good	NaN
simple_french_qcm-1-nbvisit	NaN
simple_french_qcm-2-a2	NaN
simple_french_qcm-2-b	NaN
simple_french_qcm-2-duration	NaN
simple_french_qcm-2-good	NaN
simple_french_qcm-2-nbvisit	NaN
simple_french_qcm-3-a2	1

simple_french_qcm-3-a3	1
simple_french_qcm-3-b	1000
simple_french_qcm-3-duration	0 days 00:00:09.323000
simple_french_qcm-3-good	1
simple_french_qcm-3-nbvisit	3
simple_french_qcm-4-a2	1
simple_french_qcm-4-b	2
simple_french_qcm-4-duration	0
simple_french_qcm-4-good	1
simple_french_qcm-4-nbvisit	5
simple_french_qcm-6-a3	NaN
simple_french_qcm-6-b	1
simple_french_qcm-6-duration	0 days 00:00:00.750000
simple_french_qcm-6-good	0
simple_french_qcm-6-nbvisit	1
simple_french_qcm-7-a2	NaN
simple_french_qcm-7-b	1
simple_french_qcm-7-duration	0 days 00:00:01.188000
simple_french_qcm-7-good	0
simple_french_qcm-7-nbvisit	1
simple_french_qcm-3-a0	NaN
simple_french_qcm-6-a2	NaN
simple_french_qcm-1-a1	NaN
simple_french_qcm-4-a0	NaN
simple_french_qcm-6-a5	NaN
simple_french_qcm-7-a0	NaN
-a1	NaN
on-a2	NaN
simple_french_qcm-0-a1	1
simple_french_qcm-4-a3	1

[7]:

[8]: