

Epydoc

API Documentation

July 14, 2017

Contents

Contents	1
1 Package UnblockMeSolver	2
1.1 Modules	2
1.2 Variables	2
2 Package UnblockMeSolver.Map	3
2.1 Modules	3
2.2 Variables	3
3 Module UnblockMeSolver.Map.Map	4
3.1 Variables	4
3.2 Class Map	4
3.2.1 Methods	4
3.2.2 Properties	4
4 Module UnblockMeSolver.Map.mapReader	5
4.1 Variables	5
4.2 Class MapReader	5
4.2.1 Methods	5
4.2.2 Properties	5
4.2.3 Class Variables	6
5 Package UnblockMeSolver.Solver	7
5.1 Variables	7
6 Package UnblockMeSolver.test	8
6.1 Modules	8
6.2 Variables	8
7 Package UnblockMeSolver.test.MapTests	9
7.1 Modules	9
7.2 Variables	9
8 Module UnblockMeSolver.test.MapTests.mapTests	10
8.1 Variables	10
8.2 Class TestMap	10
8.2.1 Methods	10

8.2.2	Properties	10
8.2.3	Class Variables	11
9	Module UnblockMeSolver.test.MapTests.readerTests	12
9.1	Variables	12
9.2	Class TestReader	12
9.2.1	Methods	12
9.2.2	Properties	13
9.2.3	Class Variables	13
10	Package UnblockMeSolver.test.Sample	14
10.1	Modules	14
10.2	Variables	14
11	Module UnblockMeSolver.test.Sample.sampleTests	15
11.1	Variables	15
11.2	Class TestStringMethods	15
11.2.1	Methods	15
11.2.2	Properties	16
11.2.3	Class Variables	16
12	Module UnblockMeSolver.test.files	17
12.1	Variables	17

1 Package UnBlockMeSolver

1.1 Modules

- **Map** (*Section 2, p. 3*)
 - **Map** (*Section 3, p. 4*)
 - **mapReader** (*Section 4, p. 5*)
- **Solver** (*Section 5, p. 7*)
- **test** (*Section 6, p. 8*)
 - **MapTests** (*Section 7, p. 9*)
 - * **mapTests** (*Section 8, p. 10*)
 - * **readerTests** (*Section 9, p. 12*)
 - **Sample** (*Section 10, p. 14*)
 - * **sampleTests** (*Section 11, p. 15*)
 - **files** (*Section 12, p. 17*)

1.2 Variables

Name	Description
<code>--package--</code>	Value: None

2 Package UnBlockMeSolver.Map

2.1 Modules

- **Map** (Section 3, p. 4)
- **mapReader** (Section 4, p. 5)

2.2 Variables

Name	Description
<code>--package--</code>	Value: None

3 Module UnblockMeSolver.Map.Map

3.1 Variables

Name	Description
<code>--package--</code>	Value: None

3.2 Class Map



3.2.1 Methods

<code>--init--</code> <i>(self, graph, delimiter='\\n')</i>
Initialize the Map class and set the graph by either getting a a string from either a map reader or string as the graph and breaking if not valid.
Parameters
graph: Represents the board that the game will be played on <i>(type=string MapReader)</i>
delimiter: how to split the string <i>(type=string)</i>
Overrides: <code>object.--init--</code>

<code>isValid</code> <i>(self)</i>
Test if the graph in the map class is valid or not
Return Value
graph is valid or not <i>(type=boolean)</i>

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

3.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

4 Module UnblockMeSolver.Map.mapReader

4.1 Variables

Name	Description
<code>--package--</code>	Value: <code>'UnblockMeSolver.Map'</code>

4.2 Class MapReader



4.2.1 Methods

<code>--init--(self)</code>
Initialize MapReader class
Overrides: <code>object.--init--</code>

<code>load(self, file_name)</code>
Set flags and test if the file given exists. Throws IOError on file not existing.
Parameters
<code>file_name</code>: Name of the file that contains definition of the map.
<i>(type=string)</i>

<code>get(self)</code>
Read the file and return the string inside
Return Value
string inside of the specified file
<i>(type=string)</i>

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,
`--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

4.2.2 Properties

Name	Description
<i>Inherited from object</i> __class__	

4.2.3 Class Variables

Name	Description
loaded	Value: False
file_found	Value: False

5 Package UnBlockMeSolver.Solver

5.1 Variables

Name	Description
<code>--package--</code>	Value: None

6 Package UnblockMeSolver.test

6.1 Modules

- **MapTests** (*Section 7, p. 9*)
 - **mapTests** (*Section 8, p. 10*)
 - **readerTests** (*Section 9, p. 12*)
- **Sample** (*Section 10, p. 14*)
 - **sampleTests** (*Section 11, p. 15*)
- **files** (*Section 12, p. 17*)

6.2 Variables

Name	Description
<code>--package--</code>	Value: None

7 Package `UnBlockMeSolver.test.MapTests`

7.1 Modules

- `mapTests` (*Section 8, p. 10*)
- `readerTests` (*Section 9, p. 12*)

7.2 Variables

Name	Description
<code>--package--</code>	Value: <code>None</code>

8 Module `UnBlockMeSolver.test.MapTests.mapTests`

8.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'UnBlockMeSolver.test.MapTests'</code>

8.2 Class `TestMap`



8.2.1 Methods

<code>test_init(self)</code>

Inherited from `unittest.case.TestCase`

`__call__()`, `__eq__()`, `__hash__()`, `__init__()`, `__ne__()`, `__repr__()`, `__str__()`, `addCleanup()`, `addTypeEqualityFunc()`, `assertAlmostEqual()`, `assertAlmostEquals()`, `assertDictContainsSubset()`, `assertDictEqual()`, `assertEqual()`, `assertEquals()`, `assertFalse()`, `assertGreater()`, `assertGreaterEqual()`, `assertIn()`, `assertIs()`, `assertIsInstance()`, `assertIsNone()`, `assertIsNot()`, `assertIsNotNone()`, `assertItemsEqual()`, `assertLess()`, `assertLessEqual()`, `assertListEqual()`, `assertMultiLineEqual()`, `assertNotAlmostEqual()`, `assertNotAlmostEquals()`, `assertNotEqual()`, `assertNotEquals()`, `assertNotIn()`, `assertNotIsInstance()`, `assertNotRegexpMatches()`, `assertRaises()`, `assertRaisesRegexp()`, `assertRegexpMatches()`, `assertSequenceEqual()`, `assertSetEqual()`, `assertTrue()`, `assertTupleEqual()`, `assert_()`, `countTestCases()`, `debug()`, `defaultTestResult()`, `doCleanups()`, `fail()`, `failIf()`, `failIfAlmostEqual()`, `failIfEqual()`, `failUnless()`, `failUnlessAlmostEqual()`, `failUnlessEqual()`, `failUnlessRaises()`, `id()`, `run()`, `setUp()`, `setUpClass()`, `shortDescription()`, `skipTest()`, `tearDown()`, `tearDownClass()`

Inherited from `object`

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

8.2.2 Properties

Name	Description
<i>Inherited from object</i> __class__	

8.2.3 Class Variables

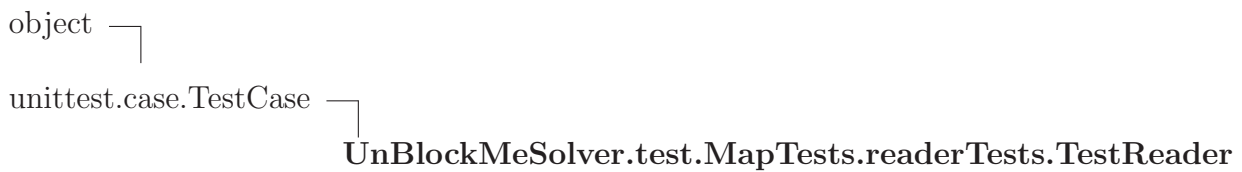
Name	Description
<i>Inherited from unittest.case.TestCase</i> longMessage, maxDiff	

9 Module `UnBlockMeSolver.test.MapTests.readerTests`

9.1 Variables

Name	Description
<code>--package--</code>	Value: <code>'UnBlockMeSolver.test.MapTests'</code>

9.2 Class `TestReader`



9.2.1 Methods

<code>test_is_loaded(self)</code>

<code>test_is_found(self)</code>

<code>test_get(self)</code>

Inherited from `unittest.case.TestCase`

`--call--()`, `--eq--()`, `--hash--()`, `--init--()`, `--ne--()`, `--repr--()`, `--str--()`, `addCleanup()`, `addTypeEqualityFunc()`, `assertAlmostEqual()`, `assertAlmostEquals()`, `assertDictContainsSubset()`, `assertDictEqual()`, `assertEqual()`, `assertEquals()`, `assertFalse()`, `assertGreater()`, `assertGreaterEqual()`, `assertIn()`, `assertIs()`, `assertIsInstance()`, `assertIsNone()`, `assertIsNot()`, `assertIsNotNone()`, `assertItemsEqual()`, `assertLess()`, `assertLessEqual()`, `assertListEqual()`, `assertMultiLineEqual()`, `assertNotAlmostEqual()`, `assertNotAlmostEquals()`, `assertNotEqual()`, `assertNotEquals()`, `assertNotIn()`, `assertNotIsInstance()`, `assertNotRegexpMatches()`, `assertRaises()`, `assertRaisesRegexp()`, `assertRegexpMatches()`, `assertSequenceEqual()`, `assertSetEqual()`, `assertTrue()`, `assertTupleEqual()`, `assert_()`, `countTestCases()`, `debug()`, `defaultTestResult()`, `doCleanups()`, `fail()`, `failIf()`, `failIfAlmostEqual()`, `failIfEqual()`, `failUnless()`, `failUnlessAlmostEqual()`, `failUnlessEqual()`, `failUnlessRaises()`, `id()`, `run()`, `setUp()`, `setUpClass()`, `shortDescription()`, `skipTest()`, `tearDown()`, `tearDownClass()`

Inherited from `object`

`--delattr--()`, `--format--()`, `--getattrattribute--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,

`__setattr__()`, `__sizeof__()`, `__subclasshook__()`

9.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

9.2.3 Class Variables

Name	Description
<i>Inherited from unittest.case.TestCase</i>	
<code>longMessage</code> , <code>maxDiff</code>	

10 Package UnblockMeSolver.test.Sample

10.1 Modules

- `sampleTests` (*Section 11, p. 15*)

10.2 Variables

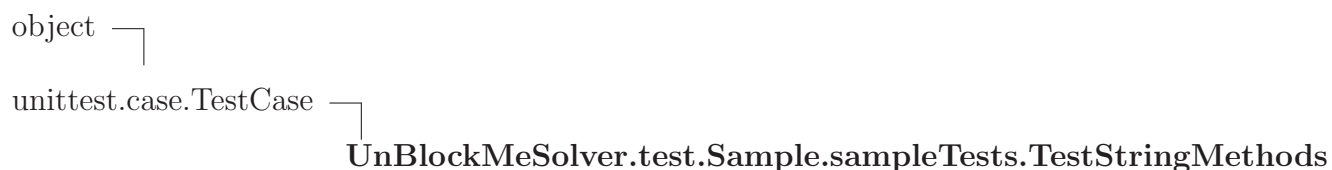
Name	Description
<code>--package--</code>	Value: None

11 Module `UnBlockMeSolver.test.Sample.sampleTests`

11.1 Variables

Name	Description
<code>--package--</code>	Value: <code>'UnBlockMeSolver.test.Sample'</code>

11.2 Class `TestStringMethods`



11.2.1 Methods

<code>test_upper(self)</code>

<code>test_isupper(self)</code>

<code>test_split(self)</code>

Inherited from `unittest.case.TestCase`

`--call--()`, `--eq--()`, `--hash--()`, `--init--()`, `--ne--()`, `--repr--()`, `--str--()`, `addCleanup()`, `addTypeEqualityFunc()`, `assertAlmostEqual()`, `assertAlmostEquals()`, `assertDictContainsSubset()`, `assertDictEqual()`, `assertEqual()`, `assertEquals()`, `assertFalse()`, `assertGreater()`, `assertGreaterEqual()`, `assertIn()`, `assertIs()`, `assertIsInstance()`, `assertIsNone()`, `assertIsNot()`, `assertIsNotNone()`, `assertItemsEqual()`, `assertLess()`, `assertLessEqual()`, `assertListEqual()`, `assertMultiLineEqual()`, `assertNotAlmostEqual()`, `assertNotAlmostEquals()`, `assertNotEqual()`, `assertNotEquals()`, `assertNotIn()`, `assertNotIsInstance()`, `assertNotRegexMatches()`, `assertRaises()`, `assertRaisesRegex()`, `assertRegexMatches()`, `assertSequenceEqual()`, `assertSetEqual()`, `assertTrue()`, `assertTupleEqual()`, `assert_()`, `countTestCases()`, `debug()`, `defaultTestResult()`, `doCleanups()`, `fail()`, `failIf()`, `failIfAlmostEqual()`, `failIfEqual()`, `failUnless()`, `failUnlessAlmostEqual()`, `failUnlessEqual()`, `failUnlessRaises()`, `id()`, `run()`, `setUp()`, `setUpClass()`, `shortDescription()`, `skipTest()`, `tearDown()`, `tearDownClass()`

Inherited from `object`

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`,
`__setattr__()`, `__sizeof__()`, `__subclasshook__()`

11.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

11.2.3 Class Variables

Name	Description
<i>Inherited from unittest.case.TestCase</i>	
<code>longMessage</code> , <code>maxDiff</code>	

12 Module `UnBlockMeSolver.test.files`

12.1 Variables

Name	Description
<code>real_file</code>	Value: <code>'test/Maps/good_map.map'</code>
<code>bad_file</code>	Value: <code>'test/Maps/doesnt_exist.map'</code>
<code>sample_file</code>	Value: <code>'test/Maps/sample_string.map'</code>
<code>__package__</code>	Value: <code>None</code>

Index

- UnBlockMeSolver (*package*), 2
 - UnBlockMeSolver.Map (*package*), 3
 - UnBlockMeSolver.Map.Map (*module*), 4
 - UnBlockMeSolver.Map.mapReader (*module*), 5–6
 - UnBlockMeSolver.Solver (*package*), 7
 - UnBlockMeSolver.test (*package*), 8
 - UnBlockMeSolver.test.files (*module*), 17
 - UnBlockMeSolver.test.MapTests (*package*), 9
 - UnBlockMeSolver.test.Sample (*package*), 14