

Boat buddy

API Documentation

October 28, 2019

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1 Module *angleToFunction*

1.1 Functions

angleToFunction(*angle*, *point*)

Renvoie l'équation d'une droite à partir d'un point et d'un angle ! le cas ou a = +-inf

Parameters

angle: angle par rapport au nord. (0 - 360)

(*type=float*)

point: point de la droite

(*type=tuple*)

Return Value

a et b de l'équation $f(x)=ax+b$

(*type=tuple*)

Author: Maxime Favier

Since: 0.2

Version: 0.5

1.2 Variables

Name	Description
<code>__package__</code>	Value: None
<code>e</code>	Value: 2.71828182846
<code>pi</code>	Value: 3.14159265359

2 Module functionIntersect

2.1 Functions

functionIntersect (<i>a, b, c, d</i>)
Renvoie le point d'intersection de deux fonctions $f_1(x)=ax+b$ et $f_2(x)=cx+d$
Parameters
a : coef directeur de la droite $f_1(x)$ (<i>type=float</i>)
b : coef de la droite $f_1(x)$ (<i>type=float</i>)
c : coef directeur de la droite $f_2(x)$ (<i>type=float</i>)
d : coef de la droite $f_2(x)$ (<i>type=float</i>)
Return Value
coord du point d'intersection (x,y) (<i>type=tuple</i>)
Author: Maxime Favier
Version: 0.3

2.2 Variables

Name	Description
__package__	Value: None

3 Module map

3.1 Class DrawMap

PyQt5.QtWidgets.QWidget —
map.DrawMap

3.1.1 Methods

<code>__init__(self, im)</code>

<code>init_ui(self)</code>

<code>supprimerTraces(self)</code>

<code>paintEvent(self, event)</code>

<code>mousePressEvent(self, event)</code>

4 Module *mareeCalculator*

4.1 Functions

mareCalculator(*TMarreeHaute*, *HMarreeHaute*, *TMarreeBasse*, *HMarreeBasse*, *time*)

Calcule la hauteur de l'eau

Parameters

TMarreeHaute: heure de maree haute en min

(*type=int*)

HMarreeHaute: hauteur de l'eau à maree haute

(*type=float*)

TMarreeBasse: heure de maree basse en min

(*type=int*)

HMarreeBasse: hauteur de l'eau à maree basse en min

(*type=float*)

time: temps de la journee

(*type=int*)

Return Value

hauteur de l'eau

(*type=float*)

Author: Maxime Favier

Since: 0.4

Version: 0.5

4.2 Variables

Name	Description
MAXYEAR	Value: 9999
MINYEAR	Value: 1
__package__	Value: None
datetime_CAPI	Value: <capsule object "datetime.datetime_CAPI" at 0x7f69d005a3c0>
e	Value: 2.71828182846
pi	Value: 3.14159265359

5 Module run

5.1 Class Window

PyQt5.QtWidgets.QMainWindow —
run.Window

5.1.1 Methods

__init__(self)

init_ui(self)

draw_toolbar(self)

draw_map(self)

6 Module `test_angleToFunction`

6.1 Class `AngleToFx_Test`

`unittest.TestCase` —
 `test_angleToFunction.AngleToFx_Test`

6.1.1 Methods

test_angle0(*self*)

test_angle180(*self*)

test_angle45(*self*)

test_angle225(*self*)

test_angle315(*self*)

7 Module `test_functionIntersect`

7.1 Class Intersection

`unittest.TestCase` —
`test_functionIntersect.Intersection`

7.1.1 Methods

`test_droitesParalleles(self)`

`test_intersection00(self)`

`test_intersection12(self)`

`test_intersection52(self)`

8 Module `test_marreeCalculator`

8.1 Class `MyTestCase`

`unittest.TestCase` —
`test_marreeCalculator.MyTestCase`

8.1.1 Methods

<code>test_marree1(self)</code>
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<code>test_marree2(self)</code>
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<code>test_marree3(self)</code>
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<code>test_marree4(self)</code>
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