GroPro

API Documentation

May 16, 2019

Contents

Co	Contents		
1	Module Berechnung 1.1 Variables 1.2 Class Berechnung 1.2.1 Methods 1.3 Class StandardBerechnung 1.3.1 Methods		
2	Module InputReader 2.1 Functions 2.2 Variables 2.3 Class InputReader 2.3.1 Methods 2.3.2 Class Variables		
3	Module Karte 3.1 Variables 3.2 Class Karte 3.2.1 Methods 3.2.2 Class Variables		
4	Module Land 4.1 Variables 4.2 Class Land 4.2.1 Methods 4.2.2 Class Variables		
5	Module Main 5.1 Functions 5.2 Variables 5.3 Class Main 5.3.1 Methods 5.3.2 Class Variables		
6	Module OutputWrite 6.1 Variables		

CONTENTS	CONT	TENTS
	Methods	
Index		8

Class Berechnung Module Berechnung

1 Module Berechnung

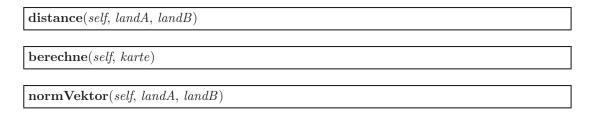
1.1 Variables

Name	Description
package	Value: None

1.2 Class Berechnung

Known Subclasses: Berechnung.StandardBerechnung

1.2.1 Methods

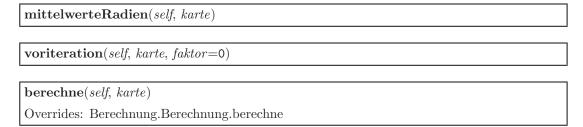


1.3 Class StandardBerechnung

Berechnung.Berechnung

Berechnung.StandardBerechnung

1.3.1 Methods



Inherited from Berechnung.Berechnung(Section 1.2)

 ${\it distance}(),\,{\it normVektor}()$

2 Module InputReader

2.1 Functions

addNachbarnToLand(self, nachbarn, heimatland)

2.2 Variables

Name	Description
package	Value: None

2.3 Class InputReader

2.3.1 Methods

__init__(self, filename)

 $\mathbf{read}(\mathit{self})$

2.3.2 Class Variables

Name	Description
mFilename	Value: ''

Class Karte Module Karte

3 Module Karte

3.1 Variables

Name	Description
package	Value: None

3.2 Class Karte

3.2.1 Methods

```
\_\_init\_\_(self, l, kennzBz)
```

3.2.2 Class Variables

Name	Description
laenderliste	Value: []
kennzahlBz	Value: ''
xmin	Value: 0.0
xmax	Value: 0.0
ymin	Value: 0.0
ymax	Value: 0.0

Class Land Module Land

4 Module Land

4.1 Variables

Name	Description
package	Value: None

4.2 Class Land

4.2.1 Methods

$_$ init $_$ (self, x , y , $kennZe$, $kennZa$)	
-str $(self)$	
$-$ _repr $_{-}(self)$	
$\boxed{\mathbf{addNachbar}(\mathit{self}, \mathit{nachbar})}$	
containsNachbar(self, nachbar)	

4.2.2 Class Variables

Name	Description
xPos	Value: 0.0
yPos	Value: 0.0
kennzeichen	Value: ''
kennzahl	Value: 0
kraftX	Value: 0.0
kraftY	Value: 0.0
radius	Value: 0.0
nachbarlaender	Value: []

Class Main Module Main

5 Module Main

5.1 Functions

$\boxed{\mathbf{main}(arguments)}$	

 $\mathbf{scale}(karte)$

 ${\bf berechne Minimum}(karte)$

5.2 Variables

Name	Description
ap	Value: ArgumentParser(prog='Hello
	there!', usage=None, descripti
results	Value: Namespace(input=None,
	iterationen=100, output=None, skali
package	Value: None

5.3 Class Main

5.3.1 Methods

 $\mathbf{printUsage}(self)$

5.3.2 Class Variables

Name	Description
mFilename	Value: ''
mInput	Value: None
mOutput	Value: None
mBerechnung	Value: None
karte	Value: None
iterationen	Value: 100

6 Module OutputWrite

6.1 Variables

Name	Description
package	Value: None

6.2 Class OutputWriter

6.2.1 Methods

init(self, iFilename,	$iTemplate,\ iKarte,\ iIterationen)$

write(self)

6.2.2 Class Variables

Name	Description
mFilename	Value: ''
mTemplate	Value: ''
mKarte	Value: Karte([], "")
mIterationen	Value: 0

Index

OutputWrite (module), 7

```
Berechnung (module), 2
                                               OutputWrite.OutputWriter (class), 7
   Berechnung.Berechnung (class), 2
                                                 OutputWrite.OutputWriter.__init__ (method),
     Berechnung.Berechnung.berechne (method),
                                                 OutputWrite.OutputWriter.write (method),
     Berechnung.Berechnung.distance (method),
     Berechnung.Berechnung.normVektor (method),
   Berechnung.StandardBerechnung (class),
     Berechnung.StandardBerechnung.mittelwerteRadien
       (method), 2
     Berechnung.StandardBerechnung.voriteration
       (method), 2
InputReader (module), 3
   InputReader.addNachbarnToLand (func-
       tion), 3
   InputReader.InputReader (class), 3
     InputReader.__init__ (method),
     InputReader.InputReader.read (method),
       3
Karte (module), 4
   Karte.Karte (class), 4
     Karte.Karte.__init__ (method), 4
Land (module), 5
   Land.Land (class), 5
     Land.Land.__init__ (method), 5
     Land.Land._repr_ (method), 5
     Land.Land._str_ (method), 5
     Land.Land.addNachbar (method), 5
     Land.Land.containsNachbar (method), 5
Main (module), 6
   Main.berechneMinimum (function), 6
   Main.Main (class), 6
     Main.Main.printUsage (method), 6
   Main.main (function), 6
   Main.scale (function), 6
```