Rune

0.0.1

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# Namespace Index

### 1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

helpers							 										 						 				??
runes																											??
runetrac	cet	es	t				 	 									 						 _				?

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# **Hierarchical Index**

### 2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

runes.Fire	 	??
Tk		
runetracetest.App	 	??

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# **Class Index**

### 3.1 Class List

Here are the classes, structs,	unions and interfaces with brief descriptions	

runetracetest.App							 												 			?1
runes.Fire							 															?

6 Class Index

# File Index

### 4.1 File List

Here is a list of all files with brief descriptions:

python/helpers.py	??
python/runes.py	??
python/runetracetest.py	??

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## **Namespace Documentation**

### 5.1 helpers Namespace Reference

#### **Functions**

```
def distance (x1, y1, x2, y2)def midpoint (x1, y1, x2, y2)
```

#### 5.1.1 Detailed Description

```
@package docstring
helpers.py
@date Jan 8, 2022
@author Harper Weigle
@brief miscellaneous functions that are heavily repeated to clean up main code base. Mostly common equations
```

#### 5.1.2 Function Documentation

#### 5.1.2.1 distance()

#### 5.1.2.2 midpoint()

#### 5.2 runes Namespace Reference

#### **Classes**

· class Fire

#### 5.2.1 Detailed Description

```
@package docstring
runes.py
@date Jan 8, 2022
@author Harper Weigle
@brief file to contain rune specific equations
```

### 5.3 runetracetest Namespace Reference

#### **Classes**

class App

#### **Functions**

• def main ()

#### **Variables**

- int CANVASWIDTH = 800
- int CANVASHEIGHT = 400
- int RESOLUTION = 100
- int WIGGLE = 20

#### 5.3.1 Detailed Description

```
@package docstring
runetracetest.py
@date Jan 8, 2022
@author Harper Weigle
@brief main app for rune trace test. Handles main loop and core app functions
```

#### 5.3.2 Function Documentation

#### 5.3.2.1 main()

```
def runetracetest.main ( )

@brief initializes app, starts app.update recursive cycle, executes mainloop
@param None
@returns None
```

#### 5.3.3 Variable Documentation

#### 5.3.3.1 CANVASHEIGHT

```
int runetracetest.CANVASHEIGHT = 400
```

#### 5.3.3.2 CANVASWIDTH

```
int runetracetest.CANVASWIDTH = 800
```

#### 5.3.3.3 RESOLUTION

```
int runetracetest.RESOLUTION = 100
```

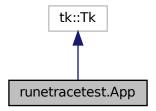
#### 5.3.3.4 WIGGLE

int runetracetest.WIGGLE = 20

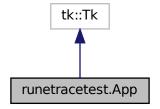
## **Class Documentation**

### 6.1 runetracetest.App Class Reference

Inheritance diagram for runetracetest.App:



Collaboration diagram for runetracetest.App:



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#### **Public Member Functions**

- def \_\_init\_\_ (self)
- def update (self)
- def drawCoordPlane (self)
- def checkCursor (self, e)
- def drawFireRune (self)
- def zeroToTrueCoord (self, x, y)
- def trueToZeroCoord (self, x, y)

#### **Public Attributes**

- canvas
- scale
- scale\_mod
- status
- statusLabel

#### 6.1.1 Detailed Description

 $\hbox{\tt @brief} \quad \hbox{\tt core app class handles tkinter root functions as well as core app functions. Must be initialized before \\ \quad \hbox{\tt Child of tk.Tk}$ 

#### 6.1.2 Constructor & Destructor Documentation

```
6.1.2.1 __init__()
```

#### 6.1.3 Member Function Documentation

#### 6.1.3.1 checkCursor()

#### 6.1.3.2 drawCoordPlane()

#### 6.1.3.3 drawFireRune()

#### 6.1.3.4 trueToZeroCoord()

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#### 6.1.3.5 update()

```
def runetracetest.App.update ( self \ ) @brief clears canvas, redraws canvas items, and reschedules self @param None @returns None
```

#### 6.1.3.6 zeroToTrueCoord()

#### 6.1.4 Member Data Documentation

#### 6.1.4.1 canvas

runetracetest.App.canvas

#### 6.1.4.2 scale

 ${\tt runetracetest.App.scale}$ 

#### 6.1.4.3 scale\_mod

 $\verb|runetracetest.App.scale_mod|\\$ 

#### 6.1.4.4 status

```
runetracetest.App.status
```

#### 6.1.4.5 statusLabel

```
{\tt runetracetest.App.statusLabel}
```

The documentation for this class was generated from the following file:

python/runetracetest.py

#### 6.2 runes. Fire Class Reference

#### **Public Member Functions**

```
• def stageOneY (x, s1)
```

- def stageOneX (y, s1)
- def stageTwoY (x, s1, s2, s3)
- def stageTwoX (y, s1, s2)
- def stageThreeY (x, s1, s3)
- def stageThreeX (y, s1, s3, s4)
- def stageFourY (x, s4)
- def stageFourX (y, s4)
- def stageFiveY (x, s4)
- def stageFiveX (y, s4)
- def stageSixY (x, s1)
- def stageSixX (y, s1, s4)

#### 6.2.1 Detailed Description

@brief class has no initialization because it does not store member variables. It simply organizes stages of t

#### 6.2.2 Member Function Documentation

#### 6.2.2.1 stageFiveX()

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#### 6.2.2.2 stageFiveY()

#### 6.2.2.3 stageFourX()

#### 6.2.2.4 stageFourY()

#### 6.2.2.5 stageOneX()

#### 6.2.2.6 stageOneY()

#### 6.2.2.7 stageSixX()

#### 6.2.2.8 stageSixY()

#### 6.2.2.9 stageThreeX()

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#### 6.2.2.10 stageThreeY()

#### 6.2.2.11 stageTwoX()

#### 6.2.2.12 stageTwoY()

The documentation for this class was generated from the following file:

python/runes.py

## **File Documentation**

### 7.1 python/helpers.py File Reference

#### **Namespaces**

• helpers

#### **Functions**

- def helpers.distance (x1, y1, x2, y2)
- def helpers.midpoint (x1, y1, x2, y2)

### 7.2 python/runes.py File Reference

#### Classes

• class runes.Fire

#### **Namespaces**

• runes

### 7.3 python/runetracetest.py File Reference

#### **Classes**

· class runetracetest.App

#### **Namespaces**

· runetracetest

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#### **Functions**

• def runetracetest.main ()

#### **Variables**

- int runetracetest.CANVASWIDTH = 800
- int runetracetest.CANVASHEIGHT = 400
- int runetracetest.RESOLUTION = 100
- int runetracetest.WIGGLE = 20