Boat buddy

API Documentation

January 3, 2020

Contents

1   Module WGS84DecToDeg

1.1   Functions

WGS84DecToDeg(*Ddec*)

Convertis les degrés decimal en degrés sexadecimal

Parameters
    `Ddec:` angle en WGS84 decimal

        (type=float)

Return Value
    variable WGS84 sexadecimal

    (type=tuple)

Note: Ddec=D+M/60+S/3600

Since: 0.8

Version: 0.9

Author: Maxime Favier

1.2   Variables

Name	Description
___package___	**Value:** `None`

2 Module WGS84DegToDec

2.1 Functions

WGS84DegToDec(D, M, S)

Convertis les degrés sexadecimal en degrés decimal

Parameters

    `D:` WGS84 degrés

        (type=int)

    `M:` WGS84 minutes

        (type=int)

    `S:` WGS84 secondes

        (type=float)

Return Value

    variable WGS84 decimal

    (type=float)

Note: Ddec=D+M/60+S/3600

Since: 0.9

Version: 0.9

Author: Maxime Favier

2.2 Variables

Name	Description
___package___	**Value:** `None`

3 Module angleToFunction

3.1 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

3.2 Variables

Name	Description
___package___	**Value:** `None`

4   Module functionIntersect

4.1   Functions

---

functionIntersect(*a*, *b*, *c*, *d*)

Renvoie le point d'intersection de deux fonctions f1(x)=ax+b et f2(x)=cx+d

Parameters
- `a:` coef directeur de la droite f1(x)

  (type=float)
- `b:` coef de la droite f1(x)

  (type=float)
- `c:` coef directeur de la droite f2(x)

  (type=float)
- `d:` coef de la droite f2(x)

  (type=float)

Return Value
coord du point d'intersection (x,y)

(type=tuple)

Author: Maxime Favier

Version: 0.3

4.2   Variables

Name	Description
___package___	**Value:** `None`

5 Module map

5.1 Class DrawMap

PyQt5.QtWidgets.QWidget ⌐

map.DrawMap

widget de la carte

Author: Maxime Favier

5.1.1 Methods

___init___(*self, im, parentClass*)

Initialisation du widget pour la carte

Parameters

    `im:`   Chemain d'acces de la carte

                         (type=str)

    `parentClass:` classe principale de l'UI

                         (type=Window)

---

supprimerTraces(*self*)

supprime le tracé des amers

---

paintEvent(*self, event*)

impressions des formes sur la carte

Parameters

    `event:` *(type=QPaintEvent)*

---

amerCreation(*self, event*)

Creation du trace des amers et determination de la position

Parameters

    `event:` objet clic de souris

               (type=QMouseEvent)

---

gpsDialogManager(*self*)

Hook pour la fenetre de dialogue GPS

---

getGpsCoordinates(*self, ncord, wcord*)

Affiche le point GPS sur la carte

Parameters
    `ncord:` Cordonée sexadecimal Nord

           (type=tuple)

    `wcord:` Cordonée sexadecimal ouest

           (type=tuple)

---

computeAmerGPSError(*self*)

Calcul l'erreur entre le relevé des amers et la position GPS

---

mousePressEvent(*self, event*)

Hook evenement clic de souris

Parameters
    `event:` objet clic de souris

           (type=QMouseEvent)

---

mareeDialogManager(*self*)

Hook pour la fenetre de dialogue marée

---

mareeProcessing(*self, TMarreeHaute, HMarreeHaute, TMarreeBasse, HMarreeBasse, time*)

Manager de calcul des informations de marée

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)

---

posTheoriqueDialogManager(*self*)

Hook pour la fenetre de dialogue de calcul de la position théorique

posTheoriqueProcessing(*self, ncoord, wcoord, angleCourant, vitesseCourant, capCompas, declinaison, deviation, deriveVent, xMin*)

Manager de calcul des information pour la position théorique

Parameters

ncoord:	Cordonée sexadecimal Nord	
	(type=tuple)	
wcoord:	Cordonée sexadecimal Ouest	
	(type=tuple)	
angleCourant:	angle du courant	
	(type=float)	
vitesseCourant:	vitesse du courant m/s	
	(type=float)	
capCompas:	cap compas (deg)	
	(type=float)	
declinaison:	declinaison	
	(type=float)	
deviation:	déviation	
	(type=float)	
deriveVent:	derive du vent	
	(type=float)	
xMin:	min de simulation	
	(type=int)	

Author: Maxime Favier

capTheoriqueManager(*self*)

Hook pour la fenetre de dialogue pour le calcul du cap

capTheoriqueProcessing(*self, ncoord1, wcoord1, ncoord2, wcoord2, d, D, Der*)
Manager du calcul de cap
Parameters

    `ncoord1:` coordonnées deg/min/sec nord du pt A

               (type=tuple)

    `wcoord1:` coordonnées deg/min/sec ouest du pt A

               (type=tuple)

    `ncoord2:` coordonnées deg/min/sec nord du pt B

               (type=tuple)

    `wcoord2:` coordonnées deg/min/sec ouest du pt B

               (type=tuple)

    `d:` déviation

               (type=float)

    `D:` déclinaison

               (type=float)

    `Der:` dérive au vent

               (type=float)

Author: Maxime Favier

5.2 Class Arrow

Classe pour la création de fleches

Author: Maxime Favier

Note: Inspiré de https://gist.github.com/reusee/2406975

5.2.1 Methods

__**init**__(*self, painter, pos1, pos2*)

paint(*self, painter*)

6 Module mareeCalculator

6.1 Functions

---

marreCalculator(*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

6.2 Variables

Name	Description
___package___	**Value:** `None`

7   Module routeFond

7.1   Functions

route__compas(*xd, yd, xa, ya*)

cap__compas(*Rs, Der, D, d*)

route__surface(*Cc, d, D, Der*)

7.2   Variables

Name	Description
___package___	**Value:** `None`

8 Module run

8.1 Class Window

PyQt5.QtWidgets.QMainWindow ———┐

run.Window

Classe principale du GUI

Author: Maxime Favier

8.1.1 Methods

___**init**___(*self*)

---

init_ui(*self*)

definitions des proprietés du GUI

---

draw_toolbar(*self*)

Creation des bouttons de la barre de tache

---

draw_map(*self*)

positionement de la carte

---

draw_dock(*self*)

Initialisation du dock

---

groupePosition(*self*)

Initialisation des widgets du groupe position du bateau - Amers

---

groupeGPS(*self*)

Initialisation des widgets du groupe GPS

---

groupeAmersError(*self*)

Initialisation des widgets du groupe erreur amers

---

groupeMaree(*self*)

Initialisation des widgets du groupe Marée

---

groupeCap(*self*)

Initialisation des widgets du groupe Cap

updateLabelsAmer(*self*, *pos1*, *pos2*)

mise à jour des labels du groupe position amer

Parameters

    pos1: position en deg, min, sec au nord

        (type=str)

    pos2: position en deg, min, sec a l'ouest

        (type=str)

---

updateLabelsGPS(*self*, *pos1*, *pos2*)

mise à jour des labels du groupe position GPS

Parameters

    pos1: position en deg, min, sec au nord

        (type=str)

    pos2: position en deg, min, sec a l'ouest

        (type=str)

---

updateLabelsError(*self*, *pos1*, *pos2*)

mise à jour des labels du groupe position GPS

Parameters

    pos1: position en deg, min, sec au nord

        (type=str)

    pos2: position en deg, min, sec a l'ouest

        (type=str)

---

updateMarre(*self*, *lbl1*=None, *lbl2*=None)

mise à jour des labels du groupe marée

Parameters

    lbl1: contenu du lbl1

        (type=str)

    lbl2: contenu du lbl2

        (type=str)

---

updateCap(*self, capCompas=*`""`*, routeSurface=*`""`*, routeFond=*`"Non Impl\xc3\xa9ment\xc3\xa9"`)

---

mise à jour des labels du groupe cap

Parameters

`capCompas:`	contenu du label
	(type=str)
`routeSurface:`	label route de surface
	(type=str)
`routeFond:`	label route de fond
	(type=str)

9 Module test_WGS84DecToDeg

9.1 Class WGS84Dec_Test

unittest.TestCase

test_WGS84DecToDeg.WGS84Dec_Test

Tests automatiques pour la fonction WGS84DecToDeg qui convertit les degrés WGS84 decimal en sexadécimal

9.1.1 Methods

test_1($self$)
38.8897 = 38 53' 23"

test_2($self$)
-77.0089 = -77 00' 32"

test_3($self$)
47.494128 = 47 29' 39"

test_4($self$)
3.043041 = 3 2' 35"

10 Module test_WGS84DegToDec

10.1 Class WGS84Deg_Test

unittest.TestCase ┐

test_WGS84DegToDec.WGS84Deg_Test

Tests automatiques pour la fonction WGS84DegToDec qui convertit les degrés WGS84 sexadécimal en décimal

10.1.1 Methods

test_1(*self*)
38.8897 = 38 53' 23"

test_2(*self*)
-77.0089 = -77 00' 32"

test_3(*self*)
47.494128 = 47 29' 39"

test_4(*self*)
3.043041 = 3 2' 35"

11   Module test_angleToFunction

11.1   Class AngleToFx_Test

unittest.TestCase

test_angleToFunction.AngleToFx_Test

tests automatiques de angleToFunction qui renvoie l'equation affine d'une droite à partir de l'angle par rapport au nord et la position d'un point

11.1.1   Methods

---

test_angle0(*self*)

teste que quand l'angle est 0, a tend vers l'infini

---

test_angle180(*self*)

teste quand l'angle est 180, a tend vers moins l'infini

---

test_angle45(*self*)

teste quand l'angle est 45, a=1

---

test_angle225(*self*)

teste quand l'angle est 255 au point (1,1), a=1 et b=2

---

test_angle315(*self*)

teste quand l'angle est 315 au point (1,0), a=-1 et b=-1

---

12   Module test_functionIntersect

12.1   Class Intersection

unittest.TestCase ────┐

                   test_functionIntersect.Intersection

tests automatiques de la fonction d'intersection qui calcule le point d'intersection avec de deux fonctions affines

12.1.1   Methods

---

test_droitesParalleles(*self*)

teste que la fonction retourne une erreur lorsque les deux droites sont parralles

---

test_intersection00(*self*)

teste que la fonction retourne (0,0) comme point d'intersection pour les fonctions y=x et y=-4x

---

test_intersection12(*self*)

teste que la fonction retourne (1,2) comme point d'intersection pour les fonctions y=-2x+4 et y=3x-1

---

test_intersection52(*self*)

teste que la fonction retourne (5,-2) comme point d'intersection pour les fonctions y=-5/7x+11/7 et y=3/5x-5

13   Module test_mareeCalculator

13.1   Class Maree_Test

unittest.TestCase

test_mareeCalculator.Maree_Test

tests automatiques de la fonction qui calcule la hauteur de l'eau à toute heure avec les informations de marée

13.1.1   Methods

---

test_maree1(*self*)

v. les exercices pour préparer le permis hauturier p17-18 BM 4h57 3.45m PM 11h03 7.05m
la hauteur de l'eau à 7h45 est -+5.03m

---

test_maree2(*self*)

v. les exercices pour préparer le permis hauturier p19-20 BM 13h18 2.25m PM 19h06 5.85m
la hauteur de l'eau à 16h20 est +-4.18m

---

test_maree3(*self*)

v. les exercices pour préparer le permis hauturier p23-24 PM 18h14 5.70m BM 12h08 1.85m
la hauteur de l'eau à 15h est +- 3.60m
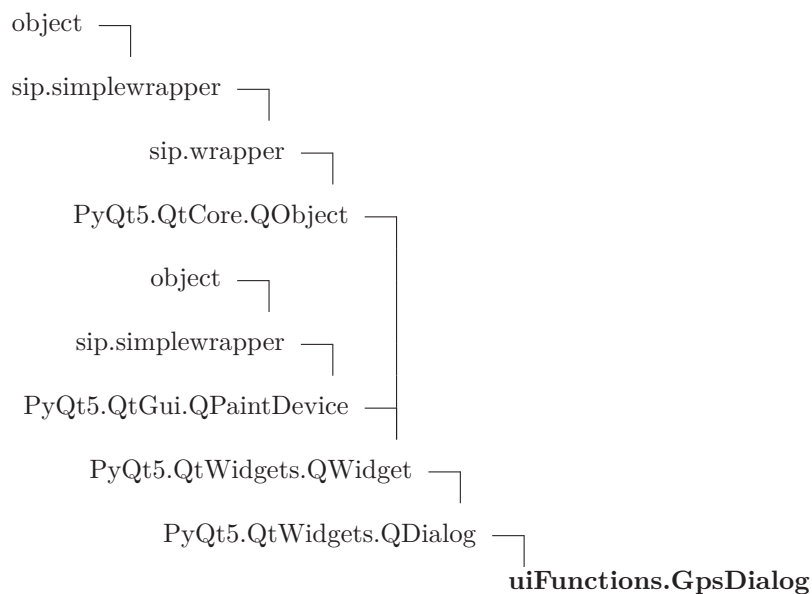
---

test_maree4(*self*)

v. les exercices pour préparer le permis hauturier p25-26 PM 12h04 7.3m BM 17h52 1.6m la
hauteur de l'eau à 16h10 est +-2.81

---

14 Module uiFunctions

14.1 Variables

Name	Description
___package___	**Value:** `None`

14.2 Class GpsDialog

object ─┐

sip.simplewrapper ─┐

    sip.wrapper ─┐

       PyQt5.QtCore.QObject ─┐

          object ─┐

      sip.simplewrapper ─┐

  PyQt5.QtGui.QPaintDevice ─┤

    PyQt5.QtWidgets.QWidget ─┐

      PyQt5.QtWidgets.QDialog ─┐

          uiFunctions.GpsDialog

Interface de dialogue pour le GPS

Author: Maxime Favier

14.2.1 Methods

__init__(*self*, *parent*)
Initialisation des widgets
Parameters
`parent`: class parente DrawMap
(type=DrawMap)
Overrides: object.__init__

ok(*self*)
Fonction Valider

Inherited from PyQt5.QtWidgets.QDialog

accept(), accepted(), closeEvent(), contextMenuEvent(), done(), eventFilter(), exec_(), finished(), isSizeGripEnabled(), keyPressEvent(), minimumSizeHint(), open(), reject(), rejected(), resizeEvent(), result(), setModal(), setResult(), setSizeGripEnabled(), setVisible(), showEvent(), sizeHint()

Inherited from *PyQt5.QtWidgets.QWidget*

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), childrenRegion(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), createWindowContainer(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), ensurePolished(), enterEvent(), event(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), getContentsMargins(), grab(), grabGesture(), grabKeyboard(), grabMouse(), grabShortcut(), graphicsEffect(), graphicsProxyWidget(), hasFocus(), hasHeightForWidth(), hasMouseTracking(), hasTabletTracking(), height(), heightForWidth(), hide(), hideEvent(), initPainter(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyReleaseEvent(), keyboardGrabber(), layout(), layoutDirection(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), mapToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), maximumWidth(), metric(), minimumHeight(), minimumSize(), minimumWidth(), mouseDoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeEvent(), nativeParentWidget(), nextInFocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), parentWidget(), pos(), previousInFocusChain(), raise_(), rect(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resize(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackgroundRole(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(), setFocusProxy(), setFont(), setForegroundRole(), setGeometry(), setGraphicsEffect(), setHidden(), setInputMethodHints(), setLayout(), setLayoutDirection(), setLocale(), setMask(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setTabletTracking(), setToolTip(), set-

ToolTipDuration(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(), setWindowFlag(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindowRole(), setWindowState(), setWindowTitle(), sharedPainter(), show(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), toolTipDuration(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicroFocus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowFilePath(), windowFlags(), windowHandle(), windowIcon(), windowIconChanged(), windowIconText(), windowIconTextChanged(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowTitleChanged(), windowType(), x(), y()

Inherited from *PyQt5.QtCore.QObject*

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), findChild(), findChildren(), inherits(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr()

Inherited from *PyQt5.QtGui.QPaintDevice*

colorCount(), depth(), devicePixelRatio(), devicePixelRatioF(), devicePixelRatioFScale(), heightMM(), logicalDpiX(), logicalDpiY(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

Inherited from *sip.simplewrapper*

__new__()

Inherited from *object*

__delattr__(), __format__(), __getattribute__(), __hash__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

14.2.2   Properties

Name	Description
Inherited from object	
__class__	

14.2.3 Class Variables

Name	Description
Inherited from PyQt5.QtWidgets.QDialog	
Accepted, Rejected	
Inherited from PyQt5.QtWidgets.QWidget	
DrawChildren, DrawWindowBackground, IgnoreMask	
Inherited from PyQt5.QtCore.QObject	
staticMetaObject	
Inherited from PyQt5.QtGui.QPaintDevice	
PdmDepth, PdmDevicePixelRatio, PdmDevicePixelRatioScaled, PdmDpiX, PdmDpiY, PdmHeight, PdmHeightMM, PdmNumColors, PdmPhysicalDpiX, PdmPhysicalDpiY, PdmWidth, PdmWidthMM	

14.3 Class MareeDialog

```
object ──┐
sip.simplewrapper ──┐
        sip.wrapper ──┐
    PyQt5.QtCore.QObject ──┐
            object ──┐
    sip.simplewrapper ──┐
PyQt5.QtGui.QPaintDevice ──┐
    PyQt5.QtWidgets.QWidget ──┐
        PyQt5.QtWidgets.QDialog ──┐
```

uiFunctions.MareeDialog
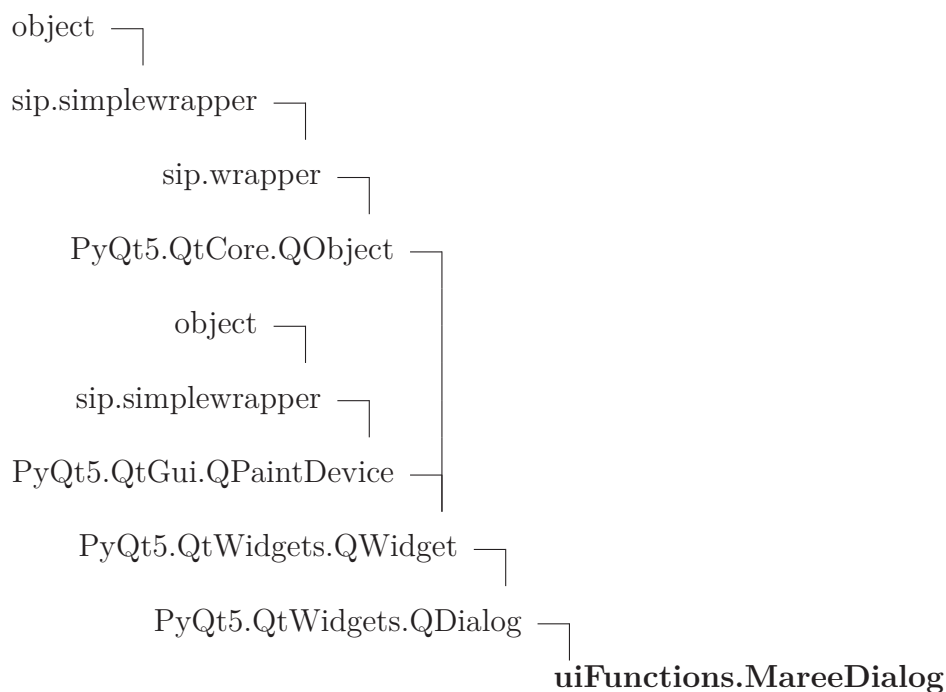
Interface de dialogue pour le carculateur de marée

Author: Maxime Favier

14.3.1 Methods

__init__(*self, parent, gparrent*)

Initialisation des widgets

Parameters
  parent: Classe parente DrawMap

                  (type=DrawMap)

  gparrent: Classe de l'UI

                  (type=Window)

Overrides: object.__init__

---

pleineMerGroupe(*self*)

Initialisation des widgets pleine mer

---

basseMerGroupe(*self*)

Initialisation des widgets basse mer

---

ok(*self*)

Fonction valider

Inherited from PyQt5.QtWidgets.QDialog

accept(), accepted(), closeEvent(), contextMenuEvent(), done(), eventFilter(), exec_(), finished(), isSizeGripEnabled(), keyPressEvent(), minimumSizeHint(), open(), reject(), rejected(), resizeEvent(), result(), setModal(), setResult(), setSizeGripEnabled(), setVisible(), showEvent(), sizeHint()

Inherited from PyQt5.QtWidgets.QWidget

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), children-Region(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), createWindowContainer(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), ensurePolished(), enterEvent(), event(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), get-ContentsMargins(), grab(), grabGesture(), grabKeyboard(), grabMouse(), grab-Shortcut(), graphicsEffect(), graphicsProxyWidget(), hasFocus(), hasHeightFor-

Width(), hasMouseTracking(), hasTabletTracking(), height(), heightForWidth(), hide(), hideEvent(), initPainter(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyReleaseEvent(), keyboardGrabber(), layout(), layoutDirection(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), mapToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), maximumWidth(), metric(), minimumHeight(), minimumSize(), minimumWidth(), mouseDoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeEvent(), nativeParentWidget(), nextInFocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), parentWidget(), pos(), previousInFocusChain(), raise_(), rect(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resize(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackgroundRole(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(), setFocusProxy(), setFont(), setForegroundRole(), setGeometry(), setGraphicsEffect(), setHidden(), setInputMethodHints(), setLayout(), setLayoutDirection(), setLocale(), setMask(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setTabletTracking(), setToolTip(), setToolTipDuration(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(), setWindowFlag(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindowRole(), setWindowState(), setWindowTitle(), sharedPainter(), show(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), toolTipDuration(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicroFocus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowFilePath(), windowFlags(), windowHandle(), windowIcon(), windowIconChanged(), windowIconText(), windowIconTextChanged(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowTitleChanged(), windowType(), x(), y()

Inherited from *PyQt5.QtCore.QObject*

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), findChild(), findChildren(), inher-

its(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr()

Inherited from *PyQt5.QtGui.QPaintDevice*

colorCount(), depth(), devicePixelRatio(), devicePixelRatioF(), devicePixelRatioF-Scale(), heightMM(), logicalDpiX(), logicalDpiY(), paintingActive(), physicalD-piX(), physicalDpiY(), widthMM()

Inherited from *sip.simplewrapper*

___new___()

Inherited from *object*

___delattr___(), ___format___(), ___getattribute___(), ___hash___(), ___reduce___(), ___reduce_ex___(), ___repr___(), ___setattr___(), ___sizeof___(), ___str___(), ___sub-classhook___()

14.3.2   Properties

Name	Description
Inherited from object	
___class___	

14.3.3   Class Variables

Name	Description
Inherited from PyQt5.QtWidgets.QDialog	
Accepted, Rejected	
Inherited from PyQt5.QtWidgets.QWidget	
DrawChildren, DrawWindowBackground, IgnoreMask	
Inherited from PyQt5.QtCore.QObject	
staticMetaObject	
Inherited from PyQt5.QtGui.QPaintDevice	
PdmDepth, PdmDevicePixelRatio, PdmDevicePixelRatioScaled, PdmDpiX, PdmDpiY, PdmHeight, PdmHeightMM, PdmNumColors, PdmPhysicalDpiX, PdmPhysicalDpiY, PdmWidth, PdmWidthMM	

14.4   Class PositionTheorique

object ⌐

sip.simplewrapper ⌐

     sip.wrapper ⌐

      PyQt5.QtCore.QObject ⌐

       object ⌐

     sip.simplewrapper ⌐

PyQt5.QtGui.QPaintDevice ⌐

    PyQt5.QtWidgets.QWidget ⌐

      PyQt5.QtWidgets.QDialog ⌐

             uiFunctions.PositionTheorique
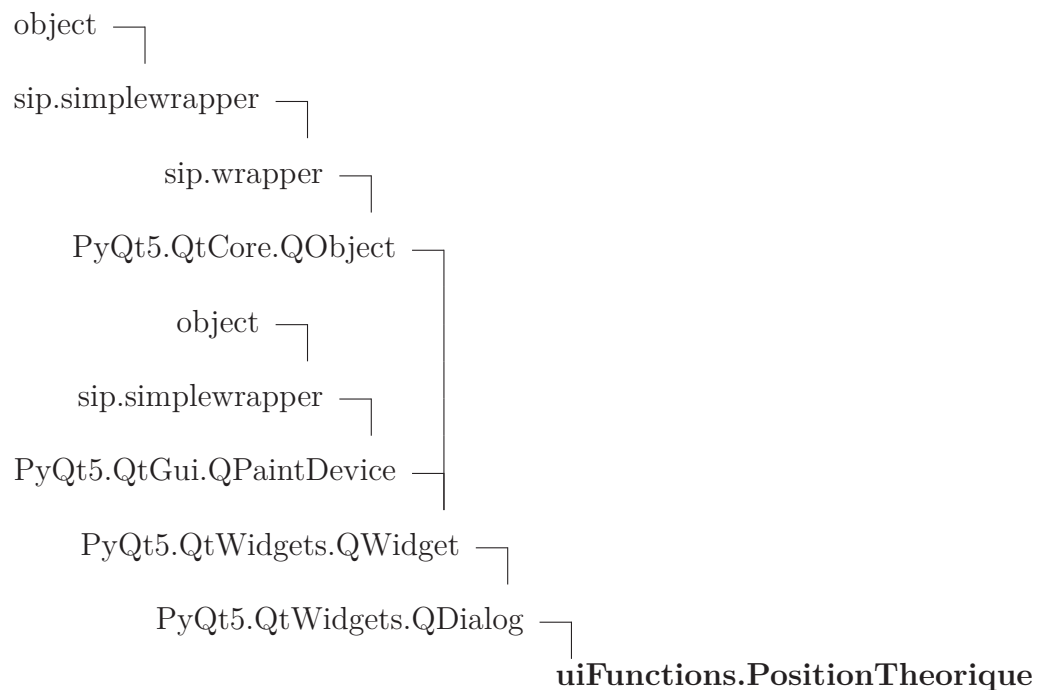
Interface graphique pour le calcul de la position theorique

Author: Maxime Favuer

14.4.1   Methods

___init___(*self, parent, gparent*)

Initialisation des widgets

Parameters
     parent: Classe parente DrawMap

               (type=DrawMap)

     gparrent: Classe de l'UI

               (type=Window)

Overrides: object.___init___

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courantGroupe(*self*)

---

capGroupe(*self*)

TempsGroupe(*self*)

ok(*self*)

Inherited from *PyQt5.QtWidgets.QDialog*

accept(), accepted(), closeEvent(), contextMenuEvent(), done(), eventFilter(), exec_(), finished(), isSizeGripEnabled(), keyPressEvent(), minimumSizeHint(), open(), reject(), rejected(), resizeEvent(), result(), setModal(), setResult(), setSizeGripEnabled(), setVisible(), showEvent(), sizeHint()

Inherited from *PyQt5.QtWidgets.QWidget*

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), childrenRegion(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), createWindowContainer(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), ensurePolished(), enterEvent(), event(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), getContentsMargins(), grab(), grabGesture(), grabKeyboard(), grabMouse(), grabShortcut(), graphicsEffect(), graphicsProxyWidget(), hasFocus(), hasHeightForWidth(), hasMouseTracking(), hasTabletTracking(), height(), heightForWidth(), hide(), hideEvent(), initPainter(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyReleaseEvent(), keyboardGrabber(), layout(), layoutDirection(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), mapToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), maximumWidth(), metric(), minimumHeight(), minimumSize(), minimumWidth(), mouseDoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeEvent(), nativeParentWidget(), nextInFocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), parentWidget(), pos(), previousInFocusChain(), raise_(), rect(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resize(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackgroundRole(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(), setFocusProxy(), setFont(), setForegroundRole(), setGe-

ometry(), setGraphicsEffect(), setHidden(), setInputMethodHints(), setLayout(), setLayoutDirection(), setLocale(), setMask(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setTabletTracking(), setToolTip(), setToolTipDuration(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(), setWindowFlag(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindowRole(), setWindowState(), setWindowTitle(), sharedPainter(), show(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), toolTipDuration(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicroFocus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowFilePath(), windowFlags(), windowHandle(), windowIcon(), windowIconChanged(), windowIconText(), windowIconTextChanged(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowTitleChanged(), windowType(), x(), y()

Inherited from PyQt5.QtCore.QObject

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), findChild(), findChildren(), inherits(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr()

Inherited from PyQt5.QtGui.QPaintDevice

colorCount(), depth(), devicePixelRatio(), devicePixelRatioF(), devicePixelRatioFScale(), heightMM(), logicalDpiX(), logicalDpiY(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

Inherited from sip.simplewrapper

__new__()

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

14.4.2   Properties

Name	Description
Inherited from object	
__class__	

14.4.3   Class Variables

Name	Description
Inherited from PyQt5.QtWidgets.QDialog	
Accepted, Rejected	
Inherited from PyQt5.QtWidgets.QWidget	
DrawChildren, DrawWindowBackground, IgnoreMask	
Inherited from PyQt5.QtCore.QObject	
staticMetaObject	
Inherited from PyQt5.QtGui.QPaintDevice	
PdmDepth, PdmDevicePixelRatio, PdmDevicePixelRatioScaled, PdmDpiX, PdmDpiY, PdmHeight, PdmHeightMM, PdmNumColors, PdmPhysicalDpiX, PdmPhysicalDpiY, PdmWidth, PdmWidthMM	

14.5   Class CapDialog

object ⌐

sip.simplewrapper ⌐

    sip.wrapper ⌐

      PyQt5.QtCore.QObject ⌐

        object ⌐

      sip.simplewrapper ⌐

    PyQt5.QtGui.QPaintDevice ⌐

      PyQt5.QtWidgets.QWidget ⌐

        PyQt5.QtWidgets.QDialog ⌐

          uiFunctions.CapDialog
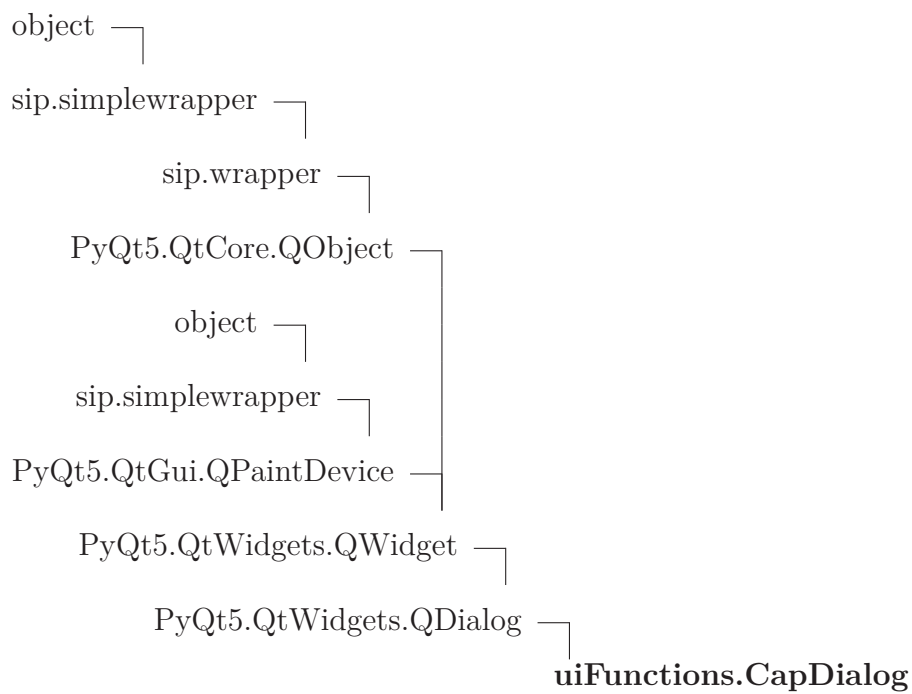
Interface de dialogue pour le calcul du cap

Author: Maxime Favier

14.5.1 Methods

___init___(*self*, *parent*)

Initialisation des widgets

Parameters
    `parent`: class parente DrawMap

            (type=DrawMap)

Overrides: object.___init___

---

ok(*self*)

Fonction Valider

Inherited from PyQt5.QtWidgets.QDialog

accept(), accepted(), closeEvent(), contextMenuEvent(), done(), eventFilter(), exec_(), finished(), isSizeGripEnabled(), keyPressEvent(), minimumSizeHint(), open(), reject(), rejected(), resizeEvent(), result(), setModal(), setResult(), setSizeGripEnabled(), setVisible(), showEvent(), sizeHint()

Inherited from PyQt5.QtWidgets.QWidget

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), childrenRegion(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), createWindowContainer(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), ensurePolished(), enterEvent(), event(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), getContentsMargins(), grab(), grabGesture(), grabKeyboard(), grabMouse(), grabShortcut(), graphicsEffect(), graphicsProxyWidget(), hasFocus(), hasHeightForWidth(), hasMouseTracking(), hasTabletTracking(), height(), heightForWidth(), hide(), hideEvent(), initPainter(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyReleaseEvent(), keyboardGrabber(), layout(),

layoutDirection(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), mapToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), maximumWidth(), metric(), minimumHeight(), minimumSize(), minimumWidth(), mouseDoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeEvent(), nativeParentWidget(), nextInFocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), parentWidget(), pos(), previousInFocusChain(), raise_(), rect(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resize(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackgroundRole(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(), setFocusProxy(), setFont(), setForegroundRole(), setGeometry(), setGraphicsEffect(), setHidden(), setInputMethodHints(), setLayout(), setLayoutDirection(), setLocale(), setMask(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setTabletTracking(), setToolTip(), setToolTipDuration(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(), setWindowFlag(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindowRole(), setWindowState(), setWindowTitle(), sharedPainter(), show(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), toolTipDuration(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicroFocus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowFilePath(), windowFlags(), windowHandle(), windowIcon(), windowIconChanged(), windowIconText(), windowIconTextChanged(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowTitleChanged(), windowType(), x(), y()

Inherited from *PyQt5.QtCore.QObject*

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), findChild(), findChildren(), inherits(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr()

Inherited from *PyQt5.QtGui.QPaintDevice*

colorCount(), depth(), devicePixelRatio(), devicePixelRatioF(), devicePixelRatioF-Scale(), heightMM(), logicalDpiX(), logicalDpiY(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

Inherited from *sip.simplewrapper*

__new__()

Inherited from *object*

__delattr__(), __format__(), __getattribute__(), __hash__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

14.5.2   Properties

Name	Description
Inherited from object	
__class__	

14.5.3   Class Variables

Name	Description
Inherited from PyQt5.QtWidgets.QDialog	
Accepted, Rejected	
Inherited from PyQt5.QtWidgets.QWidget	
DrawChildren, DrawWindowBackground, IgnoreMask	
Inherited from PyQt5.QtCore.QObject	
staticMetaObject	
Inherited from PyQt5.QtGui.QPaintDevice	
PdmDepth, PdmDevicePixelRatio, PdmDevicePixelRatioScaled, PdmDpiX, PdmDpiY, PdmHeight, PdmHeightMM, PdmNumColors, PdmPhysicalDpiX, PdmPhysicalDpiY, PdmWidth, PdmWidthMM	

Index