API Documentation

API Documentation

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Contents

Contents **1**

1 Package lotto **3**
1.1 Modules . . . 3
1.2 Variables . . . 3

2 Module lotto.auswertung **4**
2.1 Variables . . . 4
2.2 Class ui_lotto_auswertung . . . 4
2.2.1 Methods . . . 5
2.2.2 Properties . . . 7
2.2.3 Class Variables . . . 7

3 Module lotto.datahandler **8**
3.1 Variables . . . 8
3.2 Class Datahandler . . . 8
3.2.1 Methods . . . 10
3.2.2 Properties . . . 13

4 Package lotto.gui **14**
4.1 Variables . . . 14

5 Module lotto.kalender_datum **15**
5.1 Variables . . . 15
5.2 Class ui_kalender . . . 16
5.2.1 Methods . . . 16
5.2.2 Properties . . . 18
5.2.3 Class Variables . . . 18

6 Module lotto.lotto_gui_dateneing **20**
6.1 Functions . . . 20
6.2 Variables . . . 20
6.3 Class MeinDialog . . . 21
6.3.1 Methods . . . 21
6.3.2 Properties . . . 26
6.3.3 Class Variables . . . 26

7 Module lotto.randomnumbers **27**

7.1 Functions 28
7.2 Variables 28

8 Module lotto.zufallszahl **29**
8.1 Functions 30
8.2 Variables 30

9 Module pylotto **31**

Index **32**

1 Package lotto

1.1 Modules

- **auswertung**: pyLottoverwaltung
  (Section 2, p. 4)
- **datahandler**: the data handler for insert, get and delete data in the database
  (Section 3, p. 8)
- **gui** *(Section 4, p. 14)*
- **kalender_datum**: pyLottoverwaltung
  (Section 5, p. 15)
- **lotto_gui_dateneing**: pyLottoverwaltung
  (Section 6, p. 20)
- **randomnumbers**: Erzeugen einer Zufallszahl, mit Modultest beim direkten Aufruf
  (Section 7, p. 27)
- **zufallszahl**: Erzeugen einer Zufallszahl, mit Modultest beim direkten Aufruf
  (Section 8, p. 29)

1.2 Variables

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

2 Module lotto.auswertung

pyLottoverwaltung

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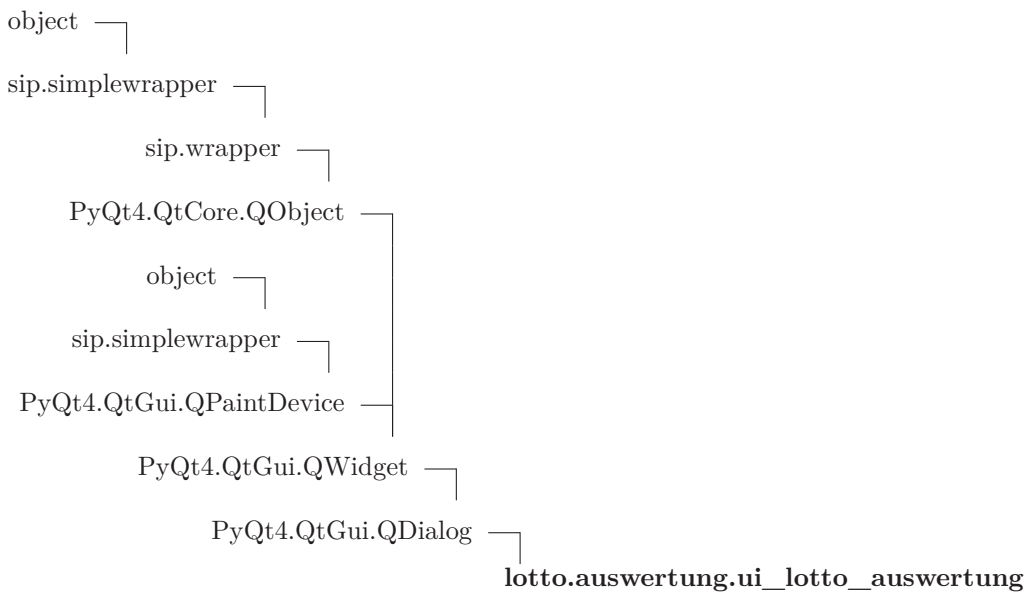
2.1 Variables

Name	Description
___package___	**Value:** `'lotto'`
___warningregistry___	**Value:** `{('the sets module is deprecated', <type 'exceptions.Depr...`

2.2 Class ui_lotto_auswertung



2.2.1 Methods

___init___(*self*, *rowid*, *data_handler*)

open analyze dialog Datenauswerte Dialog oeffnen

Parameters

`data_handler:` *(type=datahandler)*

`rowid:` *(type=int)*

Return Value

give close(0) back

Overrides: object.___init___

Inherited from PyQt4.QtGui.QDialog

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

Inherited from PyQt4.QtGui.QWidget

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

overrideWindowState(), paintEngine(), paintEvent(), palette(), paletteChange(), parentWidget(), pos(), previousInFocusChain(), raise_(), rect(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resetInputContext(), 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(), setInputContext(), setInputMethodHints(), setLayout(), setLayoutDirection(), setLocale(), setMask(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setShown(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setToolTip(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindowRole(), setWindowState(), setWindowTitle(), show(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), topLevelWidget(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicroFocus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowActivationChange(), windowFilePath(), windowFlags(), windowIcon(), windowIconText(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowType(), x(), x11Info(), x11PictureHandle(), y()

Inherited from PyQt4.QtCore.QObject

___getattr___(), blockSignals(), childEvent(), children(), connect(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), emit(), findChild(), findChildren(), inherits(), installEventFilter(), isWidgetType(), killTimer(), metaObject(), moveToThread(), objectName(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr(), trUtf8()

Inherited from PyQt4.QtGui.QPaintDevice

colorCount(), depth(), heightMM(), logicalDpiX(), logicalDpiY(), numColors(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

Inherited from sip.simplewrapper

___new___()

Inherited from object

___delattr___(), ___format___(), ___getattribute___(), ___hash___(), ___reduce___(), ___reduce_ex___(), ___repr___(), ___setattr___(), ___sizeof___(), ___str___(), ___subclasshook___()

2.2.2 Properties

Name	Description
Inherited from object ___class___	

2.2.3 Class Variables

Name	Description
Inherited from PyQt4.QtGui.QDialog Accepted, Rejected	
Inherited from PyQt4.QtGui.QWidget DrawChildren, DrawWindowBackground, IgnoreMask	
Inherited from PyQt4.QtCore.QObject staticMetaObject	
Inherited from PyQt4.QtGui.QPaintDevice PdmDepth, PdmDpiX, PdmDpiY, PdmHeight, PdmHeightMM, PdmNumColors, PdmPhysicalDpiX, PdmPhysicalDpiY, PdmWidth, PdmWidthMM	

3 Module lotto.datahandler

the data handler for insert, get and delete data in the database

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3.1 Variables

Name	Description
___package___	**Value:** `'lotto'`

3.2 Class Datahandler

object
└ **lotto.datahandler.Datahandler**

3.2.1 Methods

___init___(*self*, *path*)

class init

Parameters

`path`: *(type=string)*

Return Value

none

```
>>> data_handler = Datahandler(':memory:')
>>> data_handler.insert_ziehung('2013-03-13', [11, 12, 13, 14, 15, 16, 17],666, 777
>>> data_handler.get_ziehung()
[(1, u'2013-03-13', 666, 777, 888, u'11,12,13,14,15,16,17')]
>>> data_handler.insert_ziehung('2013-03-12', [21 ,22, 23, 24, 25, 26, 27], 222, 33
>>> data_handler.get_ziehung(2)
[(2, u'2013-03-12', 222, 333, 444, u'21,22,23,24,25,26,27')]
>>> data_handler.get_ziehung()
[(2, u'2013-03-12', 222, 333, 444, u'21,22,23,24,25,26,27'), (1, u'2013-03-13', 666, 777, 888, u'11,12,1
>>> data_handler.insert_schein('2013-03-13', [11, 12, 13, 14, 15, 16, 17], 2 ,0 ,88
>>> data_handler.get_schein()
[(1, u'2013-03-13', 2, 0, 888, u'11,12,13,14,15,16,17')]
>>> data_handler.insert_schein('2013-03-12', [21, 22, 23, 24, 25, 28], 1, 1, 444)
>>> data_handler.get_schein(2)
[(2, u'2013-03-12', 1, 1, 444, u'21,22,23,24,25,28')]
>>> data_handler.get_schein()
[(2, u'2013-03-12', 1, 1, 444, u'21,22,23,24,25,28'), (1, u'2013-03-13', 2, 0, 888, u'11,12,13,14,15,16,
>>> data_handler.get_id_numbers_of_ziehung(2)
[2]
>>> data_handler.get_id_numbers_of_ziehung(2, 3)
'error'
>>> data_handler.get_id_numbers_of_ziehung()
'error'
>>> data_handler.get_id_numbers_of_ziehung(number_list=[12, 27])
[1, 2]
>>> data_handler.dump()
>>> data_handler.delete_ziehung(1)
>>> data_handler.delete_ziehung(2)
>>> data_handler.get_ziehung()
[]
>>> data_handler.delete_schein(1)
>>> data_handler.delete_schein(2)
>>> data_handler.get_schein()
[]
```

Overrides: object.___init___

create_tables(*self*)

create_tables with a id

insert_ziehung(*self*, *date*, *zahlen*, *zahl_super*, *zahl_spiel77*, *zahl_spielsuper6*)

Save the number of the draw in database

Parameters

`date:` *(type=date)*

`zahl_super:` *(type=int)*

`zahlen:` *(type=list)*

`zahl_spielsuper6:` *(type=int)*

`zahl_spiel77:` *(type=int)*

Return Value

none

insert_schein(*self*, *date*, *zahlen*, *laufzeit*, *laufzeit_tag*, *scheinnr*)

Save the number of the tip in database Daten des Lottoscheines in der Datenbank speichern

Parameters

`date:` *(type=date)*

`laufzeit:` *(type=int)*

`scheinnr:` *(type=int)*

`zahlen:` *(type=list of int)*

`laufzeit_tag:` *(type=int)*

Return Value

none

get_ziehung(*self*, *rowid*=`None`, *date*=`None`)

Daten der Ziehung der Lottozahlen auslesen

Parameters

`date:` *(type=date)*

`rowid:` *(type=int)*

Return Value

data

get_id_numbers_of_ziehung(*self*, *id_lottoschein*=`None`, *number_list*=`None`)

Get id numbers of ziehung, with the id of lotteryticket Finde die ID Nummer der Ziehungsdaten, durch den Lottoschein

Parameters

`id_lottoschein`: *(type=int)*

`number_list`: *(type=list of int)*

Return Value

data all the draw with the number of lotteryticket

get_schein(*self*, *rowid*=`None`)

Get data from Lottoscheines Daten des Lottoscheines auslesen

Parameters

`rowid`: *(type=int)*

Return Value

data

delete_ziehung(*self*, *rowid*)

Daten der Ziehung der Lottozahlen löschen

Parameters

`rowid`: *(type=int)*

delete_schein(*self*, *rowid*)

Daten eines Lottoscheines löschen

Parameters

`rowid`: *(type=int)*

dump(*self*)

write dump file

___del___(*self*)

close connection of database

Inherited from object

___delattr___(), ___format___(), ___getattribute___(), ___hash___(), ___new___(), ___reduce___(), ___reduce_ex___(), ___repr___(), ___setattr___(), ___sizeof___(), ___str___(), ___subclasshook___()

3.2.2 Properties

Name	Description
Inherited from object ___class___	

4 Package lotto.gui

4.1 Variables

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

5 Module lotto.kalender_datum

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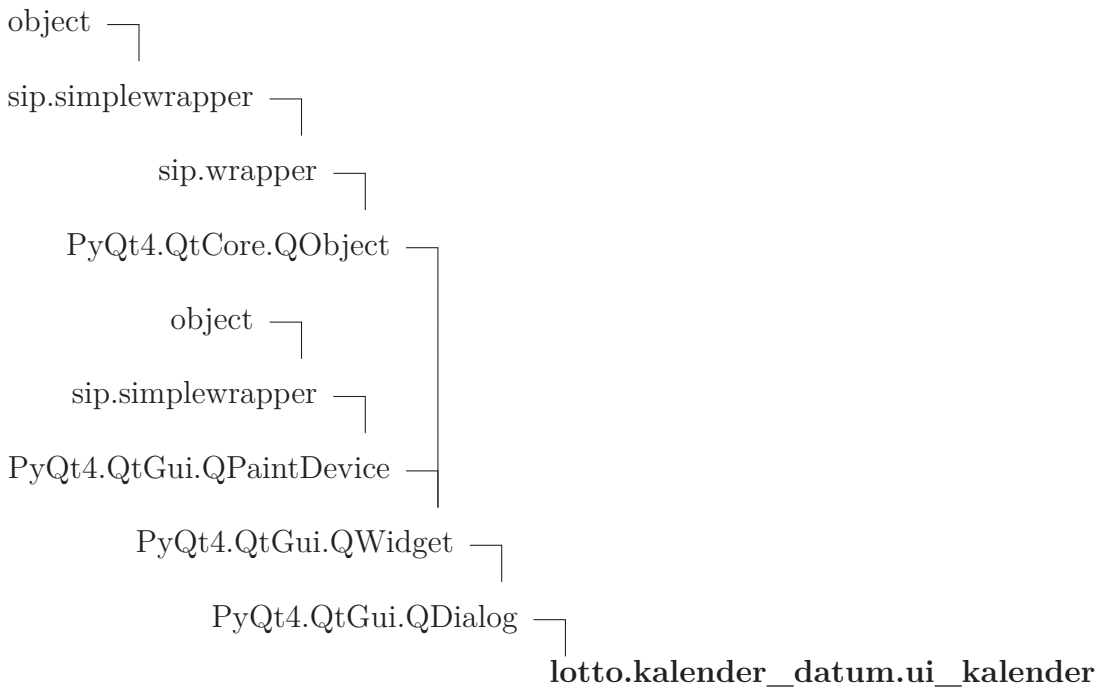
5.1 Variables

Name	Description
___package___	**Value:** `'lotto'`

5.2 Class ui_kalender



5.2.1 Methods

___init___(*self*, *year*, *month*, *day*)

open kalender dialog Kalender Dialog oeffnen

Parameters

`month:` *(type=int)*

`day:` *(type=int)*

`year:` *(type=int)*

Overrides: object.___init___

kalender(*self*)

Return the date of the calender

Return Value

datum

Inherited from PyQt4.QtGui.QDialog

accept(), accepted(), closeEvent(), contextMenuEvent(), done(), eventFilter(), exec_(), extension(), finished(), isSizeGripEnabled(), keyPressEvent(), minimumSizeHint(),

open(), orientation(), reject(), rejected(), resizeEvent(), result(), setExtension(), setModal(), setOrientation(), setResult(), setSizeGripEnabled(), setVisible(), showEvent(), showExtension(), sizeHint()

Inherited from PyQt4.QtGui.QWidget

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), childrenRegion(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), enabledChange(), ensurePolished(), enterEvent(), event(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontChange(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), getContentsMargins(), grabGesture(), grabKeyboard(), grabMouse(), grabShortcut(), graphicsEffect(), graphicsProxyWidget(), handle(), hasFocus(), hasMouseTracking(), height(), heightForWidth(), hide(), hideEvent(), inputContext(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isEnabledToTLW(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isTopLevel(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyReleaseEvent(), keyboardGrabber(), languageChange(), 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(), nativeParentWidget(), nextInFocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), paletteChange(), parentWidget(), pos(), previousInFocusChain(), raise_(), rect(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resetInputContext(), 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(), setInputContext(), setInputMethodHints(), setLayout(), setLayoutDirection(), setLocale(), setMask(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setShown(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setToolTip(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(),

setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindowRole(), setWindowState(), setWindowTitle(), show(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), topLevelWidget(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicroFocus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowActivationChange(), windowFilePath(), windowFlags(), windowIcon(), windowIconText(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowType(), x(), x11Info(), x11PictureHandle(), y()

Inherited from PyQt4.QtCore.QObject

___getattr___(), blockSignals(), childEvent(), children(), connect(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), emit(), findChild(), findChildren(), inherits(), installEventFilter(), isWidgetType(), killTimer(), metaObject(), moveToThread(), objectName(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr(), trUtf8()

Inherited from PyQt4.QtGui.QPaintDevice

colorCount(), depth(), heightMM(), logicalDpiX(), logicalDpiY(), numColors(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

Inherited from sip.simplewrapper

___new___()

Inherited from object

___delattr___(), ___format___(), ___getattribute___(), ___hash___(), ___reduce___(), ___reduce_ex___(), ___repr___(), ___setattr___(), ___sizeof___(), ___str___(), ___subclasshook___()

5.2.2 Properties

Name	Description
Inherited from object	
___class___	

5.2.3 Class Variables

Name	Description
Inherited from PyQt4.QtGui.QDialog Accepted, Rejected	
Inherited from PyQt4.QtGui.QWidget DrawChildren, DrawWindowBackground, IgnoreMask	
Inherited from PyQt4.QtCore.QObject staticMetaObject	
Inherited from PyQt4.QtGui.QPaintDevice PdmDepth, PdmDpiX, PdmDpiY, PdmHeight, PdmHeightMM, PdmNumColors, PdmPhysicalDpiX, PdmPhysicalDpiY, PdmWidth, PdmWidthMM	

6 Module lotto.lotto_gui_dateneing

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6.1 Functions

gui(*arguments*)

open the GUI

Parameters

`arguments`: language (en, de)

(type=string)

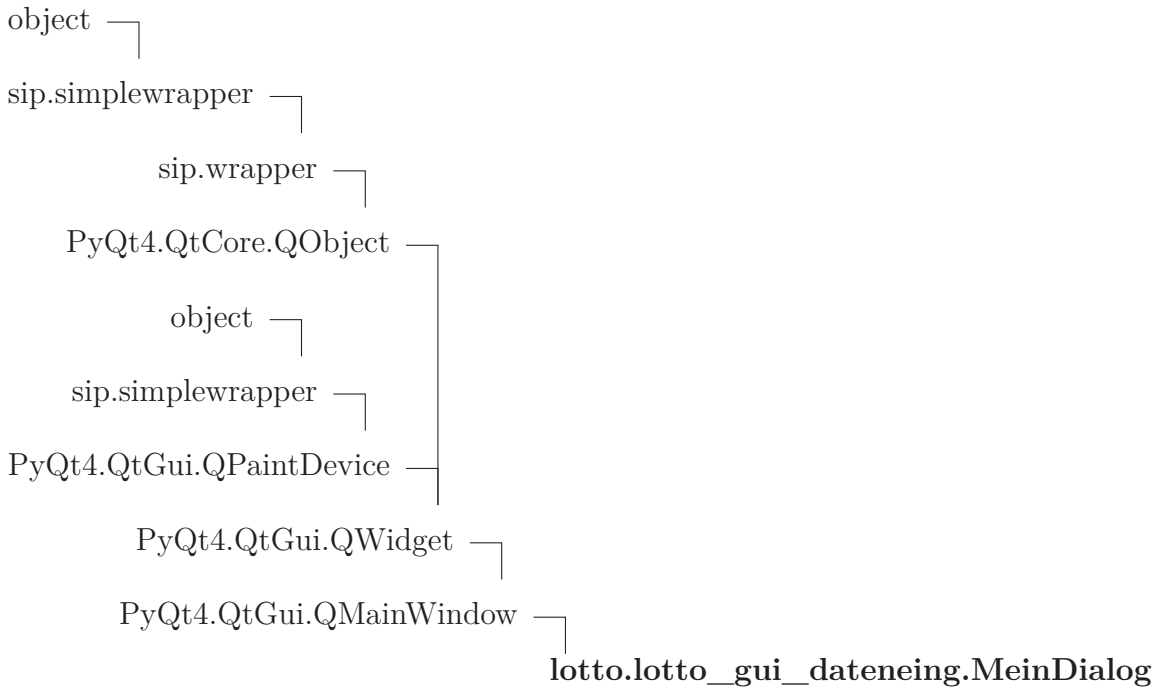
Return Value

none

6.2 Variables

Name	Description
___package___	**Value:** `'lotto'`

6.3 Class MeinDialog



6.3.1 Methods

___init___(*self*)

inital the main window 1 to 49 button, 7 spinbox, calender, datafield

Overrides: object.___init___

init(*self*)

inital variable

onbtn_kalender(*self*)

open calender dialog

ondaten_gewinnz(*self*)

Anzeigen der Gewinnzahlen an den Auswahlfeld Auslesen der Zeilennumer
Den Text der Zeile in der Beschriftung ausgeben

ondaten_lottoschein(*self*)

Anzeigen der Daten des Lottoscheins an den Auswahlfeld Auslesen der Zeilennumer Den Text der Zeile in der Beschriftung ausgeben

onInfo(*self*)

Programm Info

closeEvent(*self*, *event*)

the program exit

Overrides: PyQt4.QtGui.QWidget.closeEvent

spinBox_1to7_clear(*self*, *number*=`None`, *numbers*=`None`)

Die SpinBoxen 1 bis 6 und Zusatzzahl löschen

onEingabefeld_1to49(*self*, *zahl*)

Ein Zahlenfelder 1 bis 49 wurde angeklickt

focusSpinBox_1to7(*self*, *number*)

Ein Auswahlfelder der 7 Gewinnzahlen oder Lottoscheins hat sich geaendert

onbtn_hinzu(*self*)

drawing numbers move in database

onBtn_ls_auswerten(*self*)

den Lottoschein auswerten

onBtn_gz_anzeigen(*self*)

show drawing numbers Gewinnzahlen im großen Feld anzeigen

onBtn_ls_anzeigen(*self*)

show tip numbers Lottoschein im großen Feld anzeigen,

onBtn_gz_loeschen(*self*)

delete drawing numbers from the database Gewinnzahlen einer Ziehung aus der Datenbank loeschen

onBtn_ls_loeschen(*self*)

delete tip numbers from the database Lottoschein aus der Datenbank loeschen

onBtn_ls_laden(*self*)

Read the Lottoschein from the Database loading into the QPlainTextEdit

onBtn_gz_laden(*self*)

Read the Gewinnzahlen from the Database loading into the QPlainTextEdit

onCBox_gz_kompl_ausgeben(*self*)

CheckBox: Show the complete database in TextEdit

onbtn_zufall(*self*)

Die Zufallszahen generieren

onbtn_set_calender_today(*self*)

set calender today

onmodus(*self*)

Wenn der Eingabe-Modus wechselt werden Schaltflächen an oder ab geschaltet

geaendert(*self*)

Botton colour in dependence of the valve of the Spinbox

geaendert_btn(*self*)

in den SpinBoxen die Nummern der Zahlen 1 bis 49 anzeigen wenn die Zahl abgewaehlt wird, wird auch der Wert der entsprechende Spinbox geloescht

draw_numbers(*self*)

numbers are in the draw

onwebsite(*self*)

open website

onClose(*self*)

Inherited from PyQt4.QtGui.QMainWindow

addDockWidget(), addToolBar(), addToolBarBreak(), centralWidget(), contextMenuEvent(), corner(), createPopupMenu(), dockOptions(), dockWidgetArea(), documentMode(), event(), iconSize(), iconSizeChanged(), insertToolBar(), insertToolBarBreak(), isAnimated(), isDockNestingEnabled(), isSeparator(), menuBar(), menuWidget(), removeDockWidget(), removeToolBar(), removeToolBarBreak(), restoreDockWidget(), restoreState(), saveState(), setAnimated(), setCentralWidget(), setCorner(), setDockNestingEnabled(), setDockOptions(), setDocumentMode(), setIconSize(), setMenuBar(), setMenuWidget(), setStatusBar(), setTabPosition(), setTabShape(), setToolButtonStyle(), setUnifiedTitleAndToolBarOnMac(), splitDockWidget(), statusBar(), tabPosition(), tabShape(), tabifiedDockWidgets(), tabifyDockWidget(), toolBarArea(), toolBarBreak(), toolButtonStyle(), toolButtonStyleChanged(), unifiedTitleAndToolBarOnMac()

Inherited from PyQt4.QtGui.QWidget

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), childrenRegion(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), enabledChange(), ensurePolished(), enterEvent(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontChange(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), getContentsMargins(), grabGesture(), grabKeyboard(), grabMouse(), grabShortcut(), graphicsEffect(), graphicsProxyWidget(), handle(), hasFocus(), hasMouseTracking(), height(), heightForWidth(), hide(), hideEvent(), inputContext(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isEnabledToTLW(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isTopLevel(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyPressEvent(), keyReleaseEvent(), keyboardGrabber(), languageChange(), layout(), layoutDirection(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), mapToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), maximumWidth(), metric(), minimumHeight(), minimumSize(), minimumSizeHint(), minimumWidth(), mouseDoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeParentWidget(), nextInFocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), paletteChange(), parentWidget(), pos(), previousInFocusChain(), raise_(), rect(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resetInputContext(), resize(), resizeEvent(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackground-

Role(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(), setFocusProxy(), setFont(), setForegroundRole(), setGeometry(), setGraphicsEffect(), setHidden(), setInputContext(), setInputMethodHints(), setLayout(), setLayoutDirection(), setLocale(), setMask(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setShown(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setToolTip(), setUpdatesEnabled(), setVisible(), setWhatsThis(), setWindowFilePath(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindowRole(), setWindowState(), setWindowTitle(), show(), showEvent(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeHint(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), topLevelWidget(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicroFocus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowActivationChange(), windowFilePath(), windowFlags(), windowIcon(), windowIconText(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowType(), x(), x11Info(), x11PictureHandle(), y()

Inherited from PyQt4.QtCore.QObject

___getattr___(), blockSignals(), childEvent(), children(), connect(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), emit(), eventFilter(), findChild(), findChildren(), inherits(), installEventFilter(), isWidgetType(), killTimer(), metaObject(), moveToThread(), objectName(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr(), trUtf8()

Inherited from PyQt4.QtGui.QPaintDevice

colorCount(), depth(), heightMM(), logicalDpiX(), logicalDpiY(), numColors(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

Inherited from sip.simplewrapper

___new___()

Inherited from object

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

classhook___()

6.3.2 Properties

Name	Description
Inherited from object ___class___	

6.3.3 Class Variables

Name	Description
Inherited from PyQt4.QtGui.QMainWindow AllowNestedDocks, AllowTabbedDocks, AnimatedDocks, ForceTabbedDocks, VerticalTabs	
Inherited from PyQt4.QtGui.QWidget DrawChildren, DrawWindowBackground, IgnoreMask	
Inherited from PyQt4.QtCore.QObject staticMetaObject	
Inherited from PyQt4.QtGui.QPaintDevice PdmDepth, PdmDpiX, PdmDpiY, PdmHeight, PdmHeightMM, PdmNumColors, PdmPhysicalDpiX, PdmPhysicalDpiY, PdmWidth, PdmWidthMM	

7 Module lotto.randomnumbers

Erzeugen einer Zufallszahl, mit Modultest beim direkten Aufruf

pyLottoSimu

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7.1 Functions

zufallszahlen(*anzahl*, *maxwert*)

Zufallszahl ermitteln und als Wuerfelergebnis nehmen return random valve

Parameters

`anzahl`: Gibt die Anzahl der Ausgabewerte an

(type=int)

`maxwert`: Gibt den höchsten Zahlenwert an

(type=int)

Return Value

Gibt Zufallszahlen zurueck.

```
>>> zufallszahlen(16, 15)
Traceback (most recent call last):
ValueError: Sample larger than population
>>> zufallszahlen(16, -15)
Traceback (most recent call last):
ValueError: Sample larger than population
>>> zufallszahlen(-16, 15)
Traceback (most recent call last):
ValueError: Sample larger than population
>>> zufallszahlen(1, 1)
[1]
>>> zufallszahlen(1, 1.7)
Traceback (most recent call last):
TypeError: 'float' object cannot be interpreted as an integer
>>> sorted(zufallszahlen(3, 3))
[1, 2, 3]
```

7.2 Variables

Name	Description
___package___	**Value:** `'lotto'`

8 Module lotto.zufallszahl

Erzeugen einer Zufallszahl, mit Modultest beim direkten Aufruf

pyLottoverwaltung

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8.1 Functions

zufallszahlen(*anzahl*, *maxwert*)

Zufallszahl ermitteln und als Wuerfelergebnis nehmen return random valve

Parameters

`anzahl`: Gibt die Anzahl der Ausgabewerte an
(type=int)

`maxwert`: Gibt den höchsten Zahlenwert an
(type=int)

Return Value

Gibt Zufallszahlen zurueck.

```
>>> zufallszahlen(16, 15)
Traceback (most recent call last):
ValueError: sample larger than population
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ValueError: sample larger than population
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Traceback (most recent call last):
ValueError: sample larger than population
>>> zufallszahlen(1, 1)
[1]
>>> zufallszahlen(1, 1.7)
Traceback (most recent call last):
TypeError: integer argument expected, got float
>>> sorted(zufallszahlen(3, 3))
[1, 2, 3]
```

8.2 Variables

Name	Description
___package___	**Value:** `'lotto'`

9 Module pylotto

pyLottoverwaltung

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Index

lotto *(package)*, 3
  lotto.auswertung *(module)*, 4–7
    lotto.auswertung.ui_lotto_auswertung *(class)*, 4–7
  lotto.datahandler *(module)*, 8–13
    lotto.datahandler.Datahandler *(class)*, 8–13
  lotto.gui *(package)*, 14
  lotto.kalender_datum *(module)*, 15–19
    lotto.kalender_datum.ui_kalender *(class)*, 15–19
  lotto.lotto_gui_dateneing *(module)*, 20–26
    lotto.lotto_gui_dateneing.gui *(function)*, 20
    lotto.lotto_gui_dateneing.MeinDialog *(class)*, 20–26
  lotto.randomnumbers *(module)*, 27–28
    lotto.randomnumbers.zufallszahlen *(function)*, 28
  lotto.zufallszahl *(module)*, 29–30
    lotto.zufallszahl.zufallszahlen *(function)*, 30

pylotto *(module)*, 31