API Documentation

API Documentation

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1 Package lotto

1.1 Modules

- **dialog** *(Section 2, p. 4)*
  - **show_drawing**: pyLottoSimu
    (Section 3, p. 5)
- **lotto** *(Section 4, p. 9)*
- **lotto_gui1**: The signals for the GUI
  (Section 5, p. 10)
- **lottokugeln_rc** *(Section 6, p. 16)*
- **lottokugeln_rc3** *(Section 7, p. 17)*
- **lottokugeln_rc3_qt5** *(Section 8, p. 18)*
- **randomnumbers**: Erzeugen einer Zufallszahl, mit Modultest beim direkten Aufruf
  (Section 9, p. 19)
- **zufallszahl**: Erzeugen einer Zufallszahl, mit Modultest beim direkten Aufruf
  (Section 10, p. 21)

1.2 Variables

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

2 Package lotto.dialog

2.1 Modules

- **show_drawing**: pyLottoSimu
  (Section 3, p. 5)

2.2 Variables

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

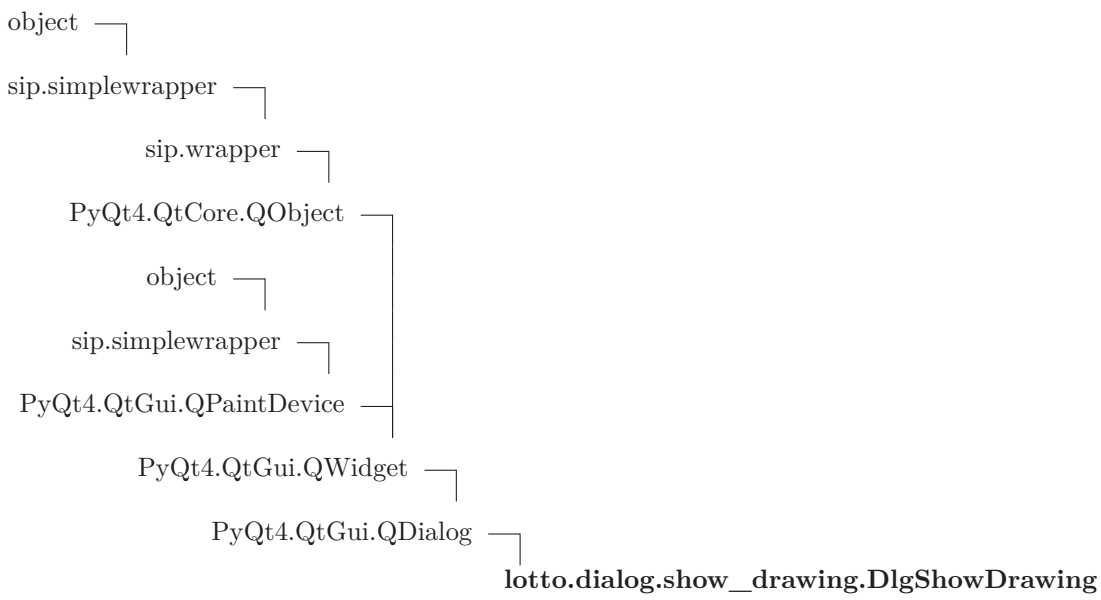
3 Module lotto.dialog.show_drawing

pyLottoSimu

3.1 Variables

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

3.2 Class DlgShowDrawing



Show the numbers in a dialog box

3.2.1 Methods

___init___(*self*, *draw_number*, *highest_number*)

x.___init___(...) initializes x; see help(type(x)) for signature

Parameters

`draw_number:` the number of draw
(type=tuple of int)

`highest_number:` the number of the PushButtons
(type=int)

Return Value
none

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___()

3.2.2 Properties

Name	Description
Inherited from object ___class___	

3.2.3 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	

4 Module lotto.lotto

4.1 Variables

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

4.2 Class Ui_MainWindow

object
└
lotto.lotto.Ui_MainWindow

4.2.1 Methods

retranslateUi(*self*, *MainWindow*)

setupUi(*self*, *MainWindow*)

Inherited from object

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

4.2.2 Properties

Name	Description
Inherited from object	
___class___	

5 Module lotto.lotto_gui1

The signals for the GUI

5.1 Functions

gui(*arguments*)

Open the GUI

Parameters

`arguments`: language (en, de)

(type=string)

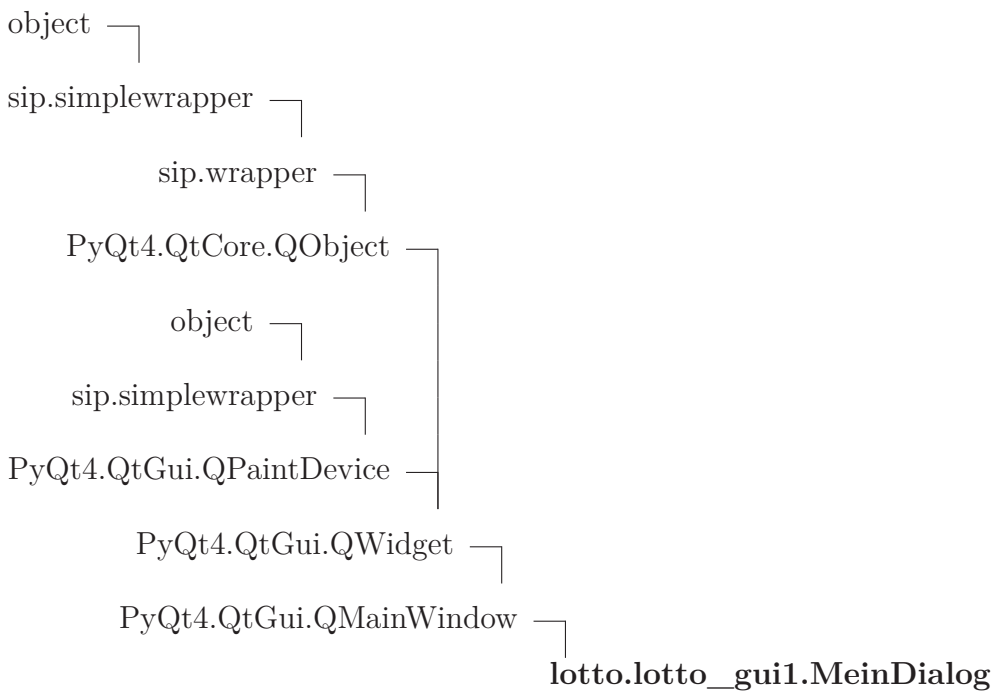
Return Value

none

5.2 Variables

Name	Description
___doc___	**Value:** `"The signals for the GUI"`
___package___	**Value:** `'lotto'`

5.3 Class MeinDialog



The GUI and programm of the pyLottoSimu.

5.3.1 Methods

___init___(*self*)

Inital user interface and slots

Return Value
none

Overrides: object.___init___

init(*self*)

Inital variable

Return Value
none

ontimer(*self*)

Start time to show a number.

Return Value
none

show_next_number(*self*)

Simulation of the draw and show the next Number on the Screen.

Return Value
none

onbtn_draw_overview(*self*)

show dialog of the draw

onbtn_start(*self*)

Start simulation with the first drawing init timer with the valve from the Scrollbar the next drawing starts with the timer event.

Return Value
none

action_lottosim(*self*)

Changing the layout for simulation or generation Move the textedit and change the visible.

Return Value
none

onrandom_numbers_generator(*self*)

Show the output from the random number generator.

Return Value
none

onclean_output_text(*self*)

Clean the output text

Return Value
none

oninfo(*self*)

Infoscreen

Return Value
none

onwebsite(*self*)

Open website

Return Value
none

onclose(*self*)

Close the GUI

Return Value
none

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(), closeEvent(), 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(), 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(), 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(), connectNo-

tify(), 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___(), ___subclasshook___()

5.3.2 Properties

Name	Description
Inherited from object ___class___	

5.3.3 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	

6 Module lotto.lottokugeln_rc

6.1 Functions

qInitResources()

qCleanupResources()

6.2 Variables

Name	Description
qt_resource_data	**Value:** ’\x00\x01\x94\x94\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\.
qt_resource_name	**Value:** ’\x00\x0e\x00\xc9\x8e\xe7\x00l\x00o\x00t\x00t\x00o\x00k\x.
qt_resource_struct	**Value:** ’\x00\x00\x00\x00\x00\x02\x00\x00\x00\x01\x00\x00\x00\x01.
___package___	**Value:** ’lotto’

7 Module lotto.lottokugeln_rc3

7.1 Functions

qInitResources()

qCleanupResources()

7.2 Variables

Name	Description
qt_resource_data	**Value:** ’\x00\x01\x94\x94\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\.
qt_resource_name	**Value:** ’\x00\x0e\x00\xc9\x8e\xe7\x00l\x00o\x00t\x00t\x00o\x00k\x.
qt_resource_struct	**Value:** ’\x00\x00\x00\x00\x00\x02\x00\x00\x00\x01\x00\x00\x00\x01.
___package___	**Value:** ’lotto’

8 Module lotto.lottokugeln_rc3_qt5

8.1 Functions

qInitResources()

qCleanupResources()

8.2 Variables

Name	Description
qt_resource_data	**Value:** ...
qt_resource_name	**Value:** ...
qt_resource_struct	**Value:** ...

9 Module lotto.randomnumbers

Erzeugen einer Zufallszahl, mit Modultest beim direkten Aufruf

pyLottoSimu

9.1 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]
```

9.2 Variables

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

10 Module lotto.zufallszahl

Erzeugen einer Zufallszahl, mit Modultest beim direkten Aufruf

pyLottoSimu

10.1 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: integer argument expected, got float
>>> sorted(zufallszahlen(3, 3))
[1, 2, 3]
```

10.2 Variables

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

11 Module pylottosimu

pyLottoSimu, load module lotto

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