API Documentation

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Variables Package voix

1 Package voix

1.1 Modules

- client: The main client. (Section 2, p. 3)
- connection (Section 3, p. 6)
- interface (Section 4, p. 8)
 - **cli** (Section 5, p. 9)
 - gui (Section 6, p. 11)
- ullet message_handler (Section 7, p. 15)
- parser (Section 8, p. 16)

1.2 Variables

Name	Description
_package	Value: None

Class Client Module voix.client

2 Module voix.client

The main client.

2.1 Variables

Name	Description
package	Value: 'voix'

2.2 Class Client

```
object — voix.client.Client
```

Client object.

2.2.1 Methods

```
__init__(self)
Initializes the client object
Overrides: object.__init__
```

```
{\bf register\_update\_callback}(\textit{self}, \textit{func})
```

```
set_host(self, data)

Sets the value of a given field.

Arguments:
   - 'field':
The field to set the given 'value'.
   - 'value':
The value to set.
```

Class Client Module voix.client

```
Set_port(self, data)

Sets the value of a given field.

Arguments:
    - 'field':
The field to set the given 'value'.
    - 'value':
The value to set.
```

```
connect(self, data)
```

Connects to the server if both hostname and username is set.

 $\mathbf{pong}(self, data)$

join_channel(self, data)

```
message(self, data)
Client > Server:
'MSG #Lobby: Hello there!' (Public message in #Lobby. Sender
is assigned on server side)
'MSG John: Hi John!' (Private message. Sender is assigned on
server side)
Server > Client:
'MSG Mike #Lobby: Hello there!' (Public message in
#Lobby. Sent to all clients in the room.)
'MSG Mike John: Hi John' (Private message)
Arguments:
- 'data':
Given the scenarios above, data is a list where 'data[0]' may
be a nickname or a channel if 'data[1]' is None.
If 'data[1]' is not None, it can either be a channel or a
nickname. In that case 'data[0]' will always be a nickname.
'data[2]' is always the message.
```

Class Client Module voix.client

```
talk(self, data)

Client > Server:
    'TALK John: Request'

Server > Client:
    'TALK Mike John: Request' (Private message)

Arguments:
    - 'data':
Given the scenarios above, data is a list where 'data[0]' is always a nickname.

If 'data[1]' is not None, this will be the receiver of the code message.

'data[2]' is always the code i.e. Request, Accept, Deny, End.
```

accepted(self, data)

denied(self, data)

 $joined_channel(self, data)$

userlist(self, data)

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

Wrapper for the sockets close function.

Inherited from object

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

Name	Description
Inherited from object	
class	

3 Module voix.connection

3.1 Variables

Name	Description
package	Value: 'voix'

3.2 Class Connection

object — voix.connection.Connection

3.2.1 Methods

__init__(self, client, type)

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

Overrides: object.__init__ extit(inherited documentation)

connect(self, address)

 $\mathbf{send}(self, data)$

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

 $[\mathbf{udp_in_handler}(self)]$

 $udp_out_handler(\mathit{self})$

 $is_connected(self)$

 $open_stream(self)$

Opens a UDP stream to the server, which redirects the traffic to the connected clients.

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

Opens a UDP stream to the server, which redirects the traffic to the connected clients.

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

Wrapper for the sockets close function.

Inherited from object

3.2.2 Properties

Name	Description
Inherited from object	
class	

3.2.3 Class Variables

Name	Description
types	Value: {'TCP': 1, 'UDP': 2}

Package voix.interface

Modules 4.1

- cli (Section 5, p. 9) gui (Section 6, p. 11)

4.2 Variables

Name	Description
package	Value: None

5 Module voix.interface.cli

5.1 Variables

Name	Description
package	Value: 'voix.interface'

5.2 Class CLI

object ______voix.interface.cli.CLI

5.2.1 Methods

__init__(self, client)

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

Overrides: object.__init__

 $\mathbf{update}(self, \ channel = \mathtt{None}, \ userlist = \mathtt{None})$

write_message(self, author=None, recipient=None, channel=None,
 message=None)

Arguments:
 'message':

 $talk_prompt(self, requester=None, responder=None, code=None)$

Handles all 'TALK' related requests and responses.

Arguments:

- 'message':

[VoIP] 'requester' wish to have a conversation with you. Accept? (\frac{1}{3}/n)

[VoIP] Awaiting response from 'responder'...

[VoIP] 'responder' has rejected your conversation request.

[VoIP] Your conversation with 'responder' has been terminated.

talk_timeout_timer(self)

main_loop(self)

Inherited from object

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

Name	Description
Inherited from object	
class	

6 Module voix.interface.gui

6.1 Variables

Name	Description
package	Value: 'voix.interface'

6.2 Class GUI

```
object —

wx._core.Object —

wx._core.EvtHandler —

wx._core.Window —

wx._windows.TopLevelWindow —

wx._windows.Frame —

voix.interface.gui.GUI
```

6.2.1 Methods

$Inherited\ from\ wx._windows.Frame$

Command(), Create(), CreateStatusBar(), CreateToolBar(), DoGiveHelp(), DoMenu-

Updates(), GetClassDefaultAttributes(), GetMenuBar(), GetStatusBar(), GetStatusBarPane(), GetToolBar(), PopStatusText(), ProcessCommand(), PushStatusText(), SendSizeEvent(), SetMenuBar(), SetStatusBar(), SetStatusBarPane(), SetStatusText(), SetStatusWidths(), SetToolBar()

$Inherited\ from\ wx._windows.TopLevelWindow$

CenterOnScreen(), CentreOnScreen(), EnableCloseButton(), GetDefaultItem(), GetI-con(), GetTitle(), GetTmpDefaultItem(), Iconize(), IsActive(), IsAlwaysMaximized(), IsFullScreen(), IsIconized(), IsMaximized(), MacGetMetalAppearance(), MacGet-TopLevelWindowRef(), MacGetUnifiedAppearance(), MacSetMetalAppearance(), Maximize(), RequestUserAttention(), Restore(), SetDefaultItem(), SetIcon(), SetI-cons(), SetShape(), SetTitle(), SetTmpDefaultItem(), ShowFullScreen(), __repr__()

$Inherited\ from\ wx._core.\ Window$

AcceptsFocus(), AcceptsFocusFromKeyboard(), AddChild(), AdjustForLayoutDirection(), AssociateHandle(), CacheBestSize(), CanSetTransparent(), CaptureMouse(), Center(), CenterOnParent(), Centre(), CentreOnParent(), ClearBackground(), Client-ToScreen(), ClientToScreenXY(), ClientToWindowSize(), Close(), ConvertDialog-PointToPixels(), ConvertDialogSizeToPixels(), ConvertPixelPointToDialog(), ConvertPixelSizeToDialog(), DLG_PNT(), DLG_SZE(), Destroy(), DestroyChildren(), Disable(), DissociateHandle(), DragAcceptFiles(), Enable(), FindFocus(), Find-WindowById(), FindWindowByLabel(), FindWindowByName(), Fit(), FitInside(), Freeze(), GetAcceleratorTable(), GetAdjustedBestSize(), GetAutoLayout(), Get-BackgroundColour(), GetBackgroundStyle(), GetBestFittingSize(), GetBestSize(), GetBestSizeTuple(), GetBestVirtualSize(), GetBorder(), GetCapture(), GetCaret(), GetCharHeight(), GetCharWidth(), GetChildren(), GetClientAreaOrigin(), Get-ClientRect(), GetClientSize(), GetClientSizeTuple(), GetConstraints(), GetContainingSizer(), GetCursor(), GetDefaultAttributes(), GetDropTarget(), GetEffectiveMinSize(), GetEventHandler(), GetExtraStyle(), GetFont(), GetForeground-Colour(), GetFullTextExtent(), GetGrandParent(), GetGtkWidget(), GetHandle(), GetHelpText(), GetHelpTextAtPoint(), GetId(), GetLabel(), GetLayoutDirection(), GetMaxHeight(), GetMaxSize(), GetMaxWidth(), GetMinHeight(), GetMinSize(), GetMinWidth(), GetName(), GetParent(), GetPosition(), GetPositionTuple(), GetRect(), GetScreenPosition(), GetScreenPositionTuple(), GetScreenRect(), GetScroll-Pos(), GetScrollRange(), GetScrollThumb(), GetSize(), GetSizeTuple(), GetSizer(), GetTextExtent(), GetThemeEnabled(), GetToolTip(), GetToolTipString(), Get-TopLevelParent(), GetUpdateClientRect(), GetUpdateRegion(), GetValidator(), GetVirtualSize(), GetVirtualSizeTuple(), GetWindowBorderSize(), GetWindow-Style(), GetWindowStyleFlag(), GetWindowVariant(), HasCapture(), HasFlag(), HasMultiplePages(), HasScrollbar(), HasTransparentBackground(), Hide(), HitTest(), HitTestXY(), InheritAttributes(), InheritsBackgroundColour(), InitDialog(), InvalidateBestSize(), IsBeingDeleted(), IsDoubleBuffered(), IsEnabled(), IsExposed(), IsExposedPoint(), IsExposedRect(), IsFrozen(), IsRetained(), IsShown(), IsShownOn-Screen(), IsTopLevel(), Layout(), LineDown(), LineUp(), Lower(), MakeModal(),

Move(), MoveAfterInTabOrder(), MoveBeforeInTabOrder(), MoveXY(), Navigate(), NewControlId(), NextControlId(), PageDown(), PageUp(), PopEventHandler(), PopupMenu(), PopupMenuXY(), PostCreate(), PrepareDC(), PrevControlId(), PushEventHandler(), Raise(), Refresh(), RefreshRect(), RegisterHotKey(), Release-Mouse(), RemoveChild(), RemoveEventHandler(), Reparent(), ScreenToClient(), ScreenToClientXY(), ScrollLines(), ScrollPages(), ScrollWindow(), SetAcceleratorTable(), SetAutoLayout(), SetBackgroundColour(), SetBackgroundStyle(), SetBest-FittingSize(), SetCaret(), SetClientRect(), SetClientSize(), SetClientSizeWH(), Set-Constraints(), SetContainingSizer(), SetCursor(), SetDimensions(), SetDoubleBuffered(), SetDropTarget(), SetEventHandler(), SetExtraStyle(), SetFocus(), SetFocusFromKbd(), SetFont(), SetForegroundColour(), SetHelpText(), SetHelpTextForId(), SetId(), SetInitialSize(), SetLabel(), SetLayoutDirection(), SetMaxSize(), SetMinSize(), Set-Name(), SetOwnBackgroundColour(), SetOwnFont(), SetOwnForegroundColour(), SetPosition(), SetRect(), SetScrollPos(), SetScrollbar(), SetSize(), SetSizeHints(), SetSizeHintsSz(), SetSizeWH(), SetSizer(), SetSizerAndFit(), SetThemeEnabled(), SetToolTip(), SetToolTipString(), SetTransparent(), SetValidator(), SetVirtual-Size(), SetVirtualSizeHints(), SetVirtualSizeHintsSz(), SetVirtualSizeWH(), SetWindowStyle(), SetWindowStyleFlag(), SetWindowVariant(), ShouldInheritColours(), Show(), Thaw(), ToggleWindowStyle(), TransferDataFromWindow(), TransferData-ToWindow(), UnregisterHotKey(), Update(), UpdateWindowUI(), UseBgCol(), Validate(), WarpPointer(), WindowToClientSize()

$Inherited\ from\ wx._core. EvtHandler$

AddPendingEvent(), Bind(), Connect(), Disconnect(), GetEvtHandlerEnabled(), GetNextHandler(), GetPreviousHandler(), ProcessEvent(), ProcessPendingEvents(), SetEvtHandlerEnabled(), SetNextHandler(), SetPreviousHandler(), Unbind()

Inherited from wx._core.Object

GetClassName(), IsSameAs()

Inherited from object

```
__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __setattr__(), __sizeof__(), __subclasshook__()
```

6.2.2 Properties

Name	Description
Inherited from wxwindows.Frame	
MenuBar, StatusBar, StatusBarPane, ToolBar, thisown	
Inherited from wxwindows.TopLevelWindow	
DefaultItem, Icon, Title, TmpDefaultItem	
Inherited from wxcore.Window	

continued on next page

Name Description

Accelerator Table, Auto Layout, Background Colour, Background Style, Best Size, Best Virtual Size, Border, Caret, Char Height, Char Width, Children, Client Area Origin, Client Rect, Client Size, Constraints, Containing Sizer, Cursor, Default Attributes, Drop Target, Effective Min Size, Enabled, Event Handler, Extra Style, Font, Foreground Colour, Grand Parent, Gtk Widget, Handle, Help Text, Id, Label, Layout Direction, Max Height, Max Size, Max Width, Min Height, Min Size, Min Width, Name, Parent, Position, Rect, Screen Position, Screen Rect, Shown, Size, Sizer, Theme Enabled, Tool Tip, Tool Tip String, Top Level, Top Level Parent, Update Client Rect, Update Region, Validator, Virtual Size, Window Style, Window Style Flag, Window Variant

Inherited from wx._core.EvtHandler

EvtHandlerEnabled, NextHandler, PreviousHandler

Inherited from wx._core.Object

ClassName

Inherited from object

_class__

7 Module voix.message_handler

7.1 Variables

Name	Description
package	Value: None

7.2 Class MessageHandler

object —

 $voix.message_handler.MessageHandler\\$

7.2.1 Methods

init(sel	f)

SAP!

Overrides: object.__init__

 ${\bf register_message_callback}(\mathit{self},\mathit{func})$

author, recipient, channel, message

register_talk_callback(self, func)

requester, responder

Inherited from object

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

Name	Description
Inherited from object	
class	

Class Parser Module voix.parser

8 Module voix.parser

8.1 Variables

Name	Description
package	Value: 'voix'

8.2 Class Parser

```
object — voix.parser.Parser
```

8.2.1 Methods

```
__init__(self, client)

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

Overrides: object.__init__ extit(inherited documentation)
```

```
Parse(self, data)

Arguments:
    'self':
    'data':
```

Inherited from object

Name	Description
Inherited from object	
class	

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