
psidialogs Documentation

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ponty

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CONTENTS

1	Basic usage	2
2	Installation	3
2.1	General	3
2.2	Ubuntu	3
2.3	Uninstall	3
3	Hierarchy	4
4	API	5
4.1	ask_file()	5
4.2	ask_folder()	5
4.3	ask_ok_cancel()	6
4.4	ask_string()	6
4.5	ask_yes_no()	6
4.6	choice()	7
4.7	error()	7
4.8	message()	7
4.9	multi_choice()	7
4.10	text()	8
4.11	warning()	8
5	Screenshots	9
5.1	ask_ok_cancel()	9
5.2	ask_string()	12
5.3	ask_yes_no()	16
5.4	choice()	20
5.5	error()	25
5.6	message()	28
5.7	multi_choice()	32
5.8	text()	37
5.9	warning()	46
6	Demo	51
6.1	command line help	52
7	similar projects	53
8	Development	54
8.1	Tools	54

8.2	Install on ubuntu	54
8.3	Tasks	55
9	Indices and tables	56
	Python Module Index	57
	Index	58

psialogs

Date November 19, 2011

PDF psialogs.pdf

Contents:

psialogs (Python Simple Dialogs) is a common API for different standard dialogs like:

- message
- warning
- ask_string
- ...

Backends:

- PyGTK
- Zenity
- easygui
- gMessage
- PyQt
- TkInter
- wxPython
- PythonDialog
- console

Links:

- home: <https://github.com/ponty/psialogs>
- documentation: <http://ponty.github.com/psialogs>

Some dialogs are too simple, because a common basic implementation is used where implementation is missing.

BASIC USAGE

```
>>> from psidialogs import message
>>> message('Hello!')
```

INSTALLATION

2.1 General

- install `setuptools` or `pip`
- install the program:

if you have `setuptools` installed:

```
# as root
easy_install psidialogs
```

if you have `pip` installed:

```
# as root
pip install psidialogs
```

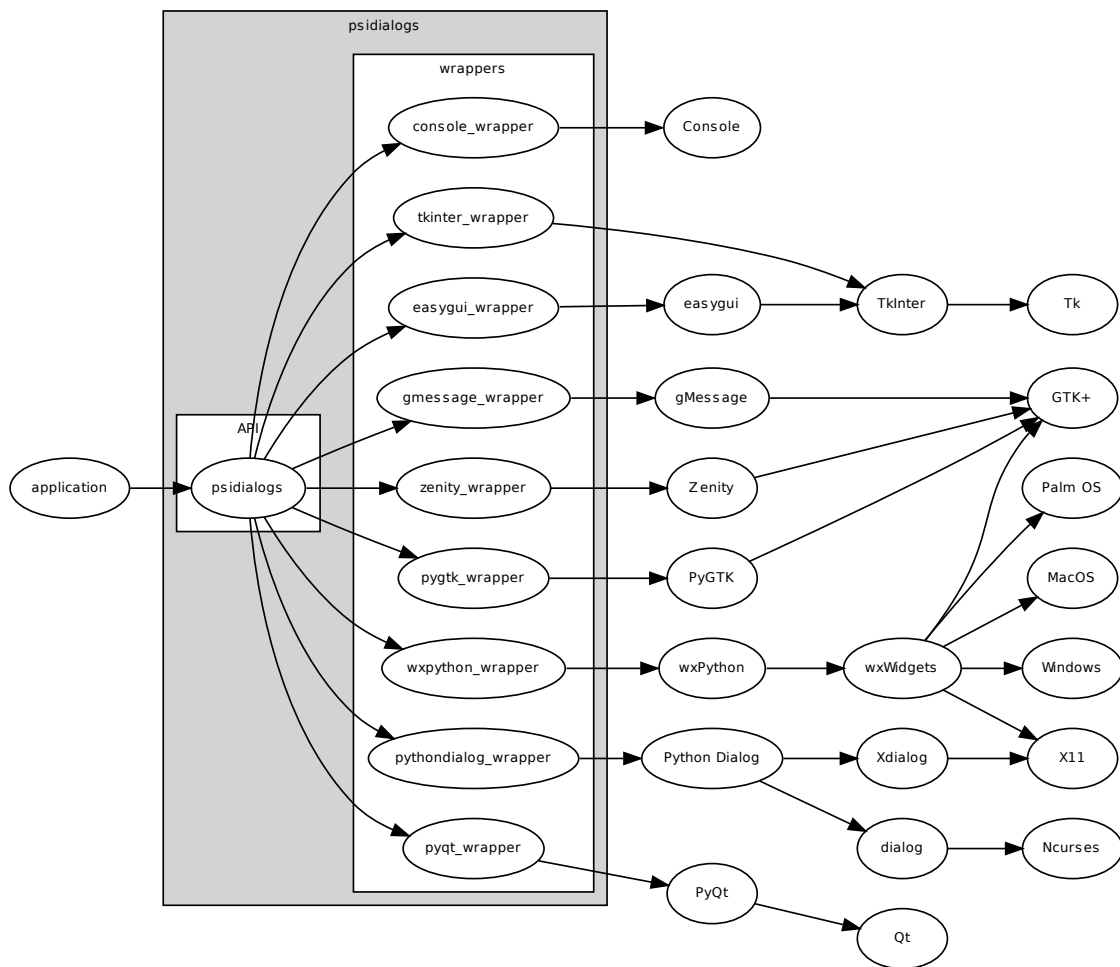
2.2 Ubuntu

```
sudo apt-get install python-setuptools
sudo easy_install psidialogs
```

2.3 Uninstall

```
# as root
pip uninstall psidialogs
```

HIERARCHY



API

4.1 ask_file()

`psidialogs.ask_file(message='Select file for open.', default='', title='', save=False)`

A dialog to get a file name. The “default” argument specifies a file path.

save=False -> file for loading save=True -> file for saving

Returns the file path that the user entered, or None if he cancels the operation.

Parameters

- **message** – message to be displayed.
- **save** – bool 0 -> load , 1 -> save
- **title** – window title
- **default** – default file path

Return type None or string

4.2 ask_folder()

`psidialogs.ask_folder(message='Select folder.', default='', title='')`

A dialog to get a directory name. Returns the name of a directory, or None if user chose to cancel. If the “default” argument specifies a directory name, and that directory exists, then the dialog box will start with that directory.

Parameters

- **message** – message to be displayed.
- **title** – window title
- **default** – default folder path
- **ok** – label of the ok button
- **cancel** – label of the cancel button

Return type None or string

4.3 ask_ok_cancel()

`psidialogs.ask_ok_cancel (message='', default=0, title='')`

Display a message with choices of OK and Cancel.

returned value: OK -> True Cancel -> False

screenshots

Parameters

- **message** – message to be displayed.
- **title** – window title
- **default** – default button as boolean (OK=True, Cancel=False)

Return type bool

4.4 ask_string()

`psidialogs.ask_string (message='Enter something.', default='', title='')`

Show a box in which a user can enter some text.

You may optionally specify some default text, which will appear in the entry-box when it is displayed.

Returns the text that the user entered, or None if he cancels the operation

screenshots

Parameters

- **message** – message to be displayed.
- **title** – window title
- **default** – entry-box default string
- **ok** – label of the ok button
- **cancel** – label of the cancel button

Return type None or string

4.5 ask_yes_no()

`psidialogs.ask_yes_no (message='', default=0, title='')`

Display a message with choices of Yes and No.

returned value: Yes -> True No -> False

screenshots

Parameters

- **message** – message to be displayed.
- **title** – window title
- **default** – default button as boolean (YES=True, NO=False)

Return type bool

4.6 choice()

`psidialogs.choice(choices=[], message='Pick something.', default=None, title='')`

Present the user with a list of choices. return the choice that he selects. return None if he cancels the selection.

screenshots

Parameters

- **choices** – a list of the choices to be displayed
- **message** – message to be displayed.
- **title** – window title
- **default** – default string of choice

Return type None or string

4.7 error()

`psidialogs.error(message='Error!', title='')`

Display a warning message

screenshots

Parameters

- **message** – message to be displayed.
- **title** – window title

Return type None

4.8 message()

`psidialogs.message(message, title='')`

Display a message

screenshots

Parameters

- **message** – message to be displayed.
- **title** – window title

Return type None

4.9 multi_choice()

`psidialogs.multi_choice(choices=[], message='Pick as many items as you like.', default=None, title='')`

Present the user with a list of choices. allow him to select multiple items and return them in a list. if the user doesn't choose anything from the list, return the empty list. return None if he cancelled selection.

screenshots

Parameters

- **choices** – a list of the choices to be displayed
- **message** – message to be displayed.
- **title** – window title
- **default** – default list of strings

Return type None or list of strings

4.10 text()

`psidialogs.text(text, message='', title='')`

This function is suitable for displaying general text, which can be longer than in `message()`

screenshots

Parameters

- **text** – (long) text to be displayed
- **message** – (short) message to be displayed.
- **title** – window title

Return type None

4.11 warning()

`psidialogs.warning(message='Warning!', title='')`

Display an error message

screenshots

Parameters

- **message** – message to be displayed.
- **title** – window title

Return type None

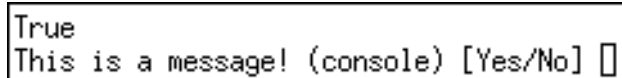
SCREENSHOTS

5.1 ask_ok_cancel()

API

5.1.1 console

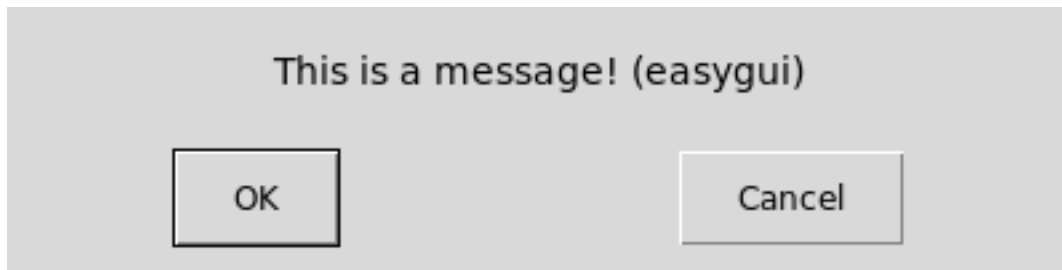
```
$ xterm -e "python -m psidialogs.examples.demo -b console -f ask_ok_cancel"
```

A screenshot of a terminal window. The first line shows the output 'True'. The second line shows a message 'This is a message! (console) [Yes/No] ' followed by a cursor. The terminal window has a black border and a white background.

```
True  
This is a message! (console) [Yes/No] 
```

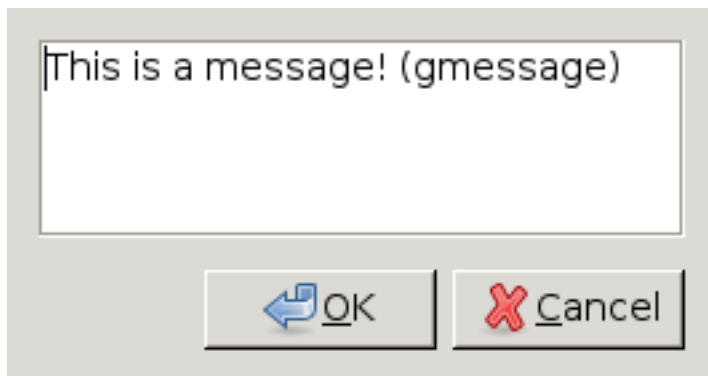
5.1.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f ask_ok_cancel
```



5.1.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f ask_ok_cancel
```



5.1.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f ask_ok_cancel
```



5.1.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f ask_ok_cancel
```



5.1.6 pythondialog

```
$ xterm -e "python -m psidialogs.examples.demo -b pythondialog -f ask_ok_cancel"
```



5.1.7 tkinter

```
$ python -m psidialogs.examples.demo -b tkinter -f ask_ok_cancel
```



5.1.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f ask_ok_cancel
```



5.1.9 zenity

```
$ python -m psidialogs.examples.demo -b zenity -f ask_ok_cancel
```



5.2 ask_string()

API

5.2.1 console

```
$ xterm -e "python -m psidialogs.examples.demo -b console -f ask_string"
```

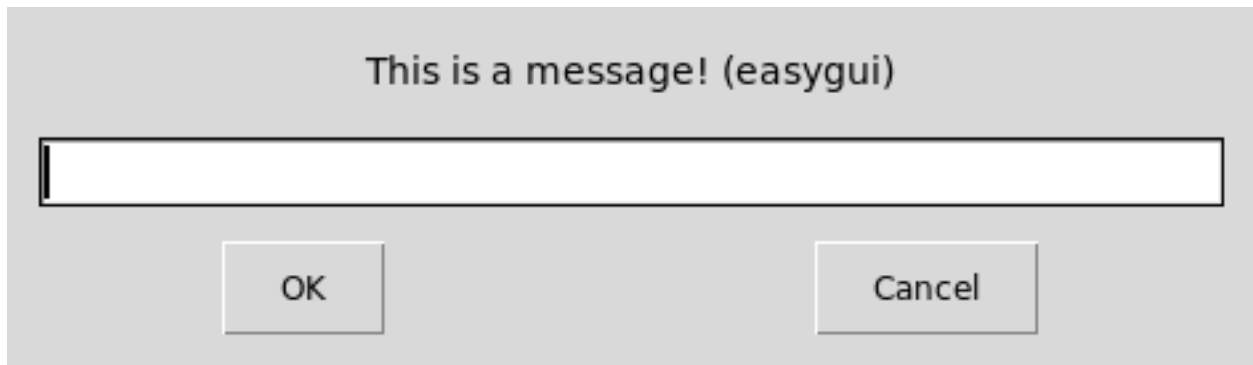


A terminal window with a black background and white text. The text shows the output of the `ask_string` function in console mode. It displays `True` on the first line and `This is a message! (console)` on the second line, followed by a cursor.

```
True
This is a message! (console)
```

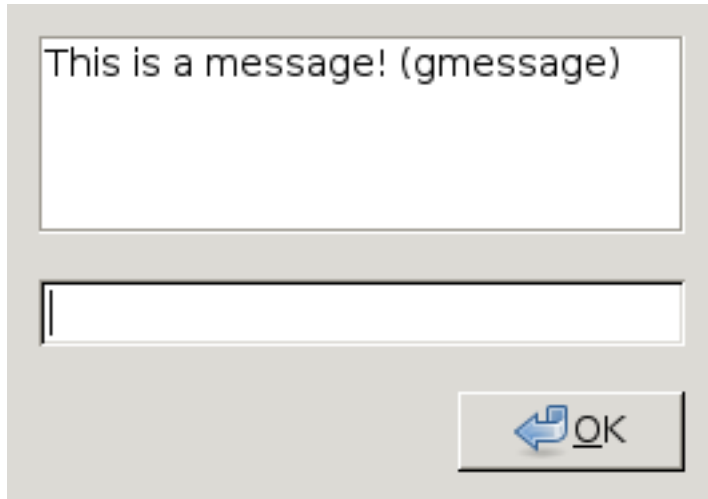
5.2.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f ask_string
```



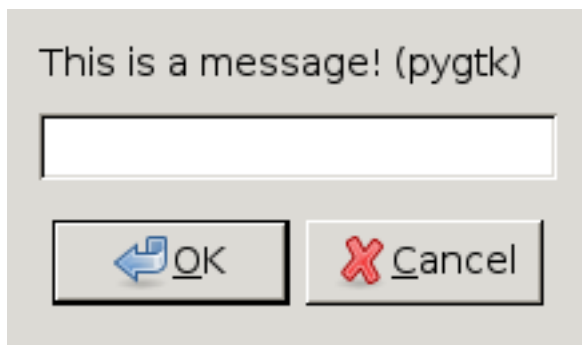
5.2.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f ask_string
```

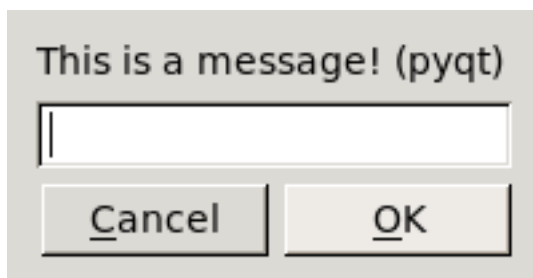
5.2.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f ask_string
```



5.2.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f ask_string
```



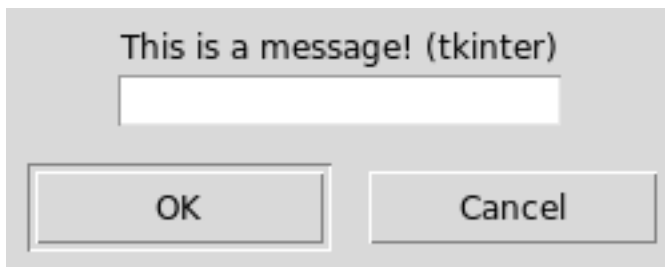
5.2.6 pythondialog

```
$ xterm -e "python -m psidialogs.examples.demo -b pythondialog -f ask_string"
```



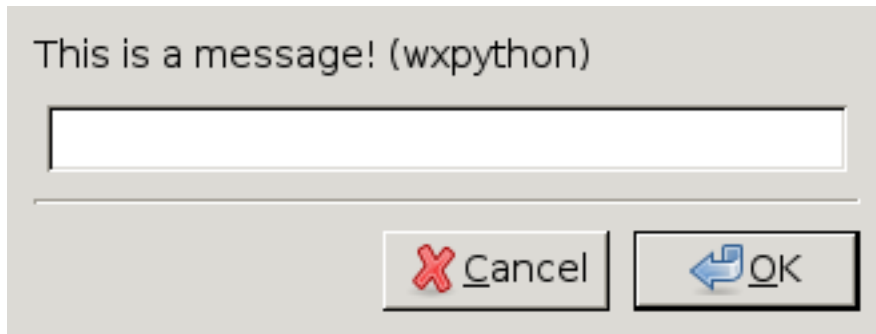
5.2.7 tkinter

```
$ python -m psidialogs.examples.demo -b tkinter -f ask_string
```



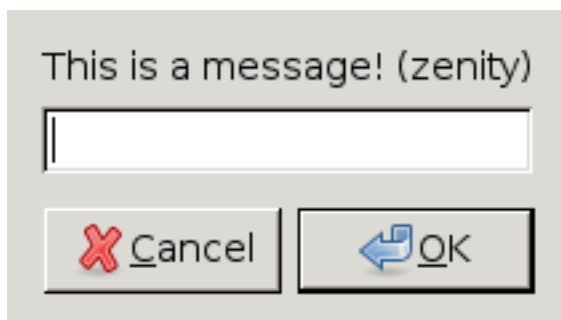
5.2.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f ask_string
```



5.2.9 zenity

```
$ python -m psidialogs.examples.demo -b zenity -f ask_string
```



5.3 ask_yes_no()

API

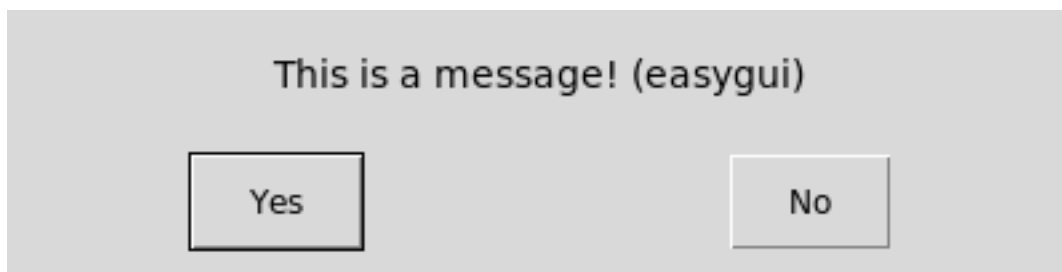
5.3.1 console

```
$ xterm -e "python -m psidialogs.examples.demo -b console -f ask_yes_no"
```

```
True  
This is a message! (console) [Yes/No] []
```

5.3.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f ask_yes_no
```



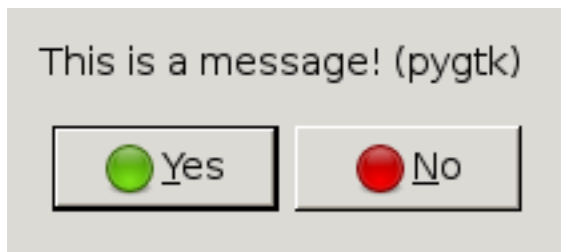
5.3.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f ask_yes_no
```



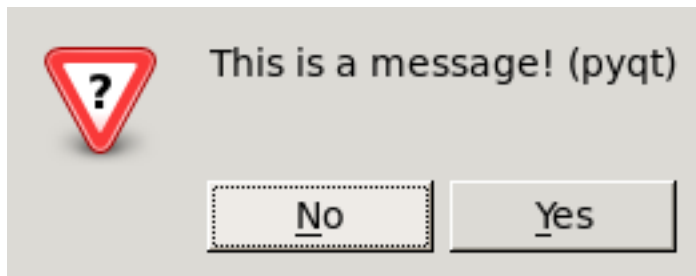
5.3.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f ask_yes_no
```



5.3.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f ask_yes_no
```



5.3.6 pythondialog

```
$ xterm -e "python -m psidialogs.examples.demo -b pythondialog -f ask_yes_no"
```



5.3.7 tkinter

```
$ python -m psidialogs.examples.demo -b tkinter -f ask_yes_no
```



5.3.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f ask_yes_no
```



5.3.9 zenity

```
$ python -m psidialogs.examples.demo -b zenity -f ask_yes_no
```



5.4 choice()

API

5.4.1 console

```
$ xterm -e "python -m psidialogs.examples.demo -b console -f choice"
```

```
True
This is a message! (console)
[0] One
[1] Two
[2] Three
Select:[]
```

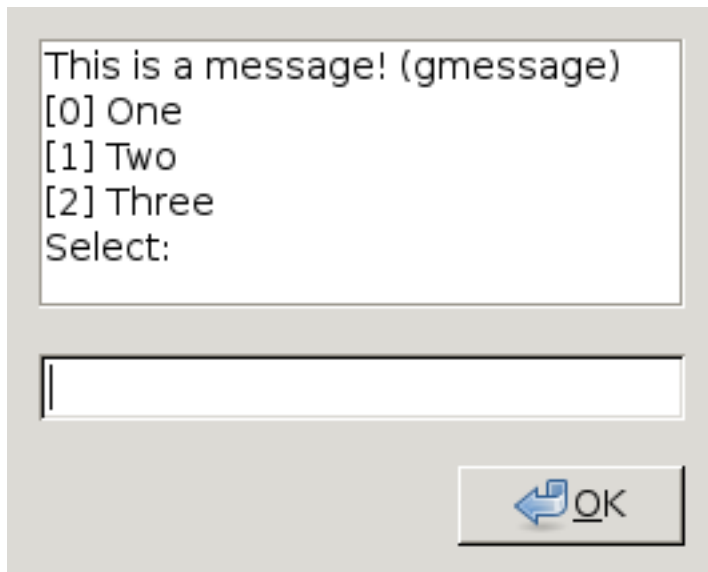
5.4.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f choice
```



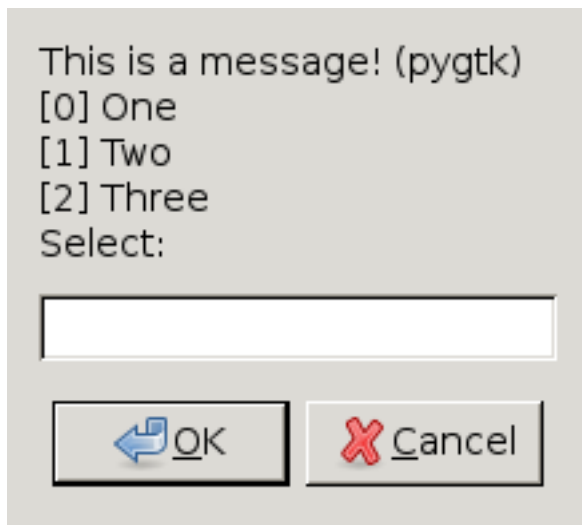
5.4.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f choice
```



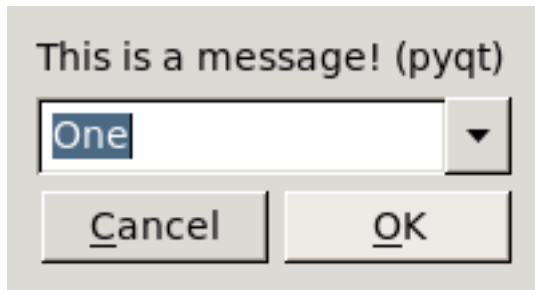
5.4.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f choice
```



5.4.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f choice
```



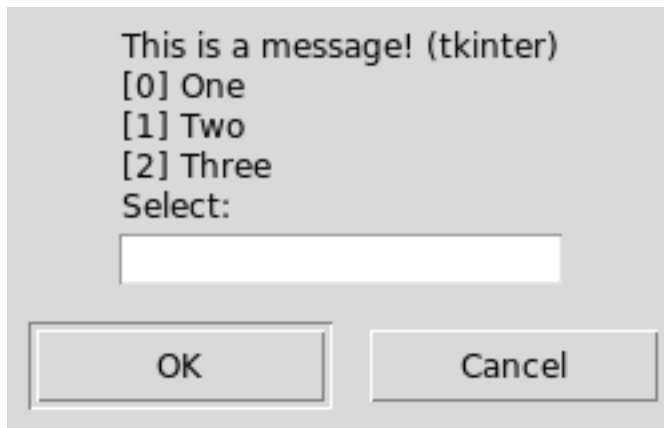
5.4.6 pythondialog

```
$ xterm -e "python -m psidialogs.examples.demo -b pythondialog -f choice"
```



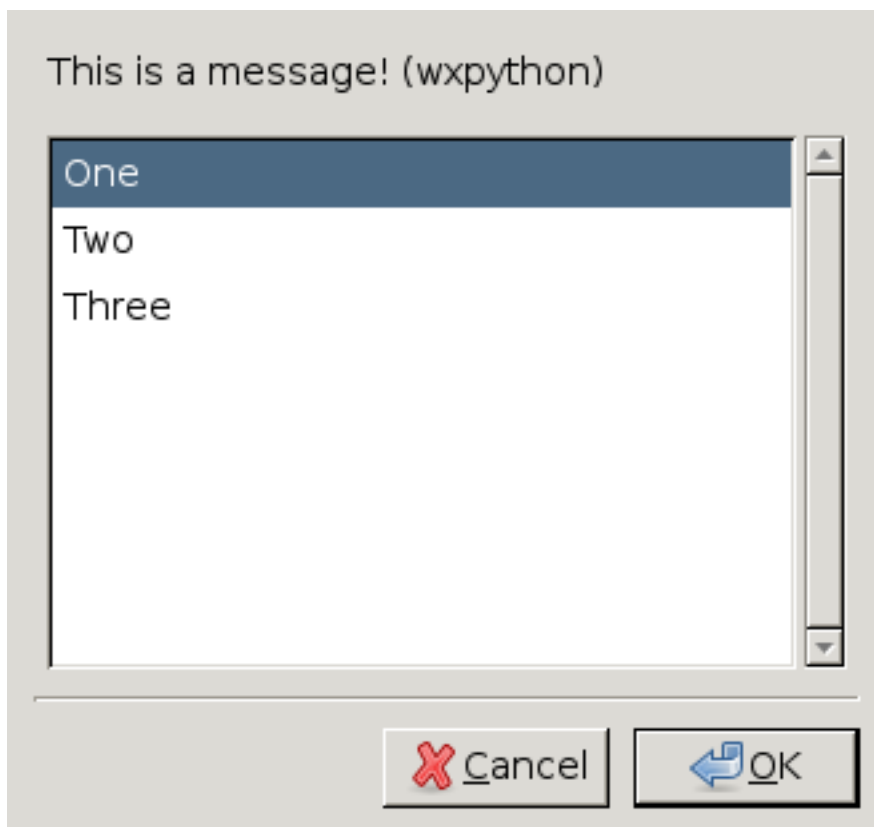
5.4.7 tkinter

```
$ python -m psidialogs.examples.demo -b tkinter -f choice
```



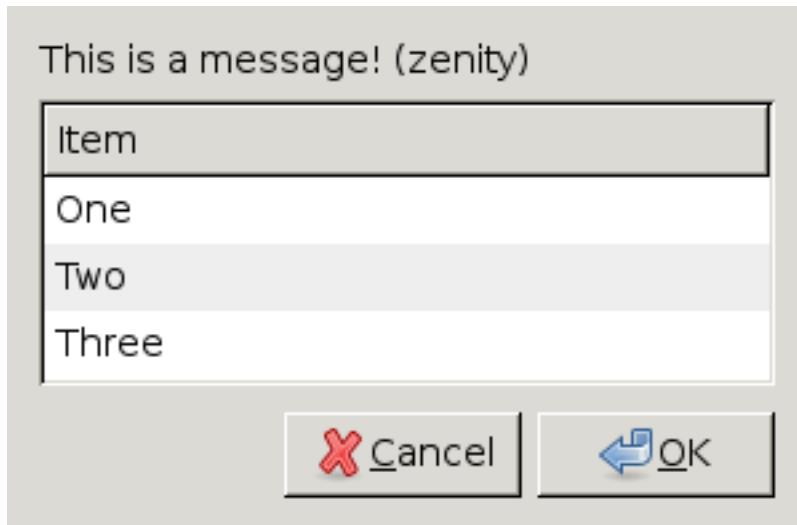
5.4.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f choice
```



5.4.9 zenity

```
$ python -m psidialogs.examples.demo -b zenity -f choice
```



5.5 error()

API

5.5.1 console

```
$ xterm -e "python -m psidialogs.examples.demo -b console -f error"
```

```
True
[ERROR] This is a message! (console)[ENTER]
```

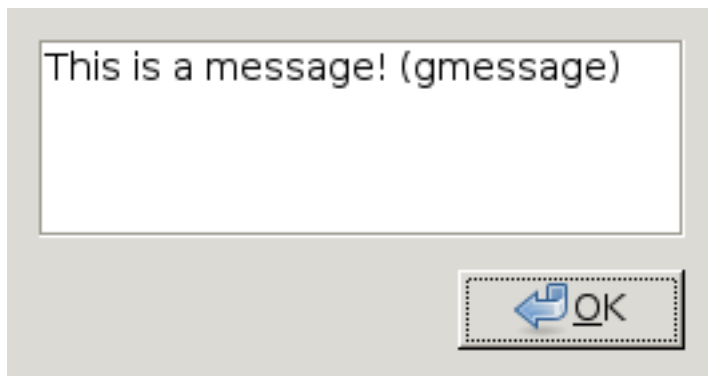
5.5.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f error
```



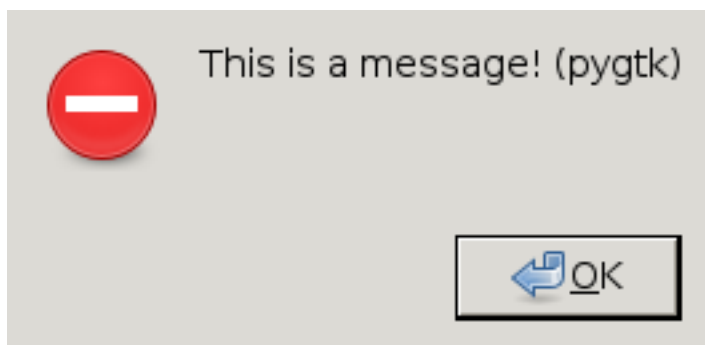
5.5.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f error
```



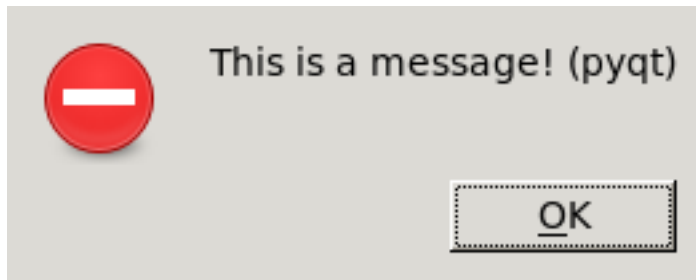
5.5.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f error
```



5.5.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f error
```



5.5.6 pythondialog

```
$ xterm -e "python -m psidialogs.examples.demo -b pythondialog -f error"
```



5.5.7 tkinter

```
$ python -m psidialogs.examples.demo -b tkinter -f error
```



5.5.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f error
```



5.5.9 zenity

```
$ python -m psidialogs.examples.demo -b zenity -f error
```



5.6 message()

API

5.6.1 console

```
$ xterm -e "python -m psidialogs.examples.demo -b console -f message"
```

```
True
This is a message! (console)[ENTER]
```

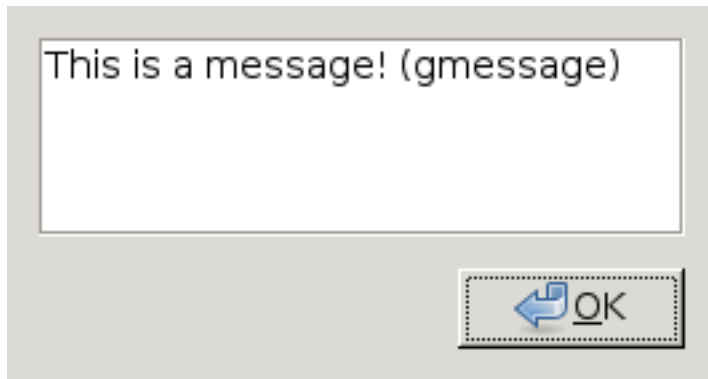
5.6.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f message
```



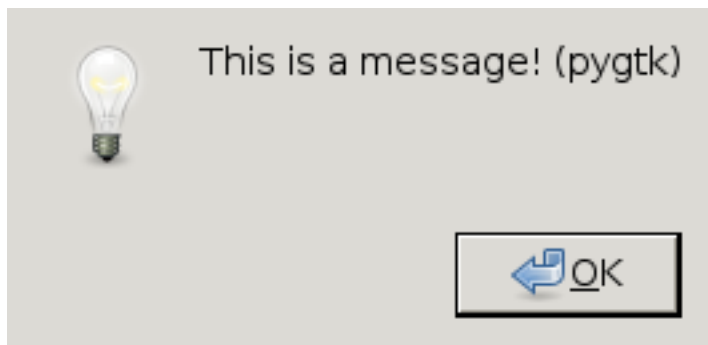
5.6.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f message
```

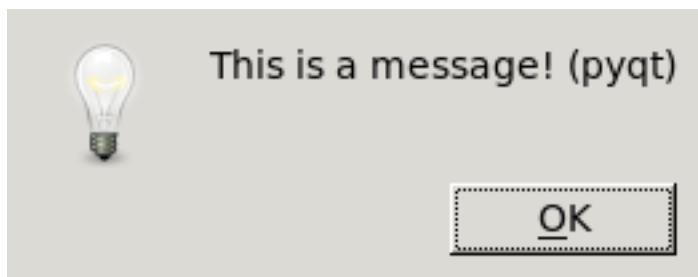
5.6.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f message
```



5.6.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f message
```



5.6.6 pythondialog

```
$ xterm -e "python -m psidialogs.examples.demo -b pythondialog -f message"
```



5.6.7 tkinter

```
$ python -m psidialogs.examples.demo -b tkinter -f message
```



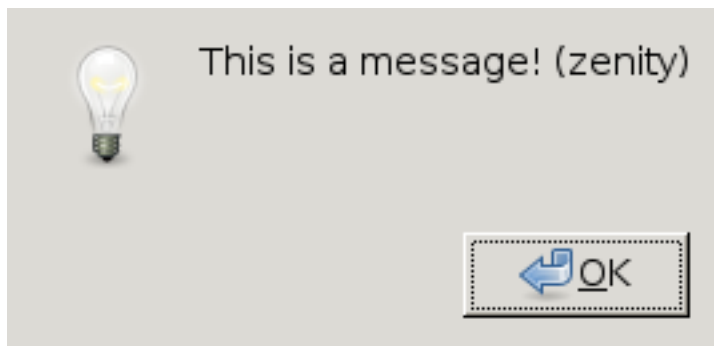
5.6.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f message
```



5.6.9 zenity

```
$ python -m psidialogs.examples.demo -b zenity -f message
```



5.7 multi_choice()

API

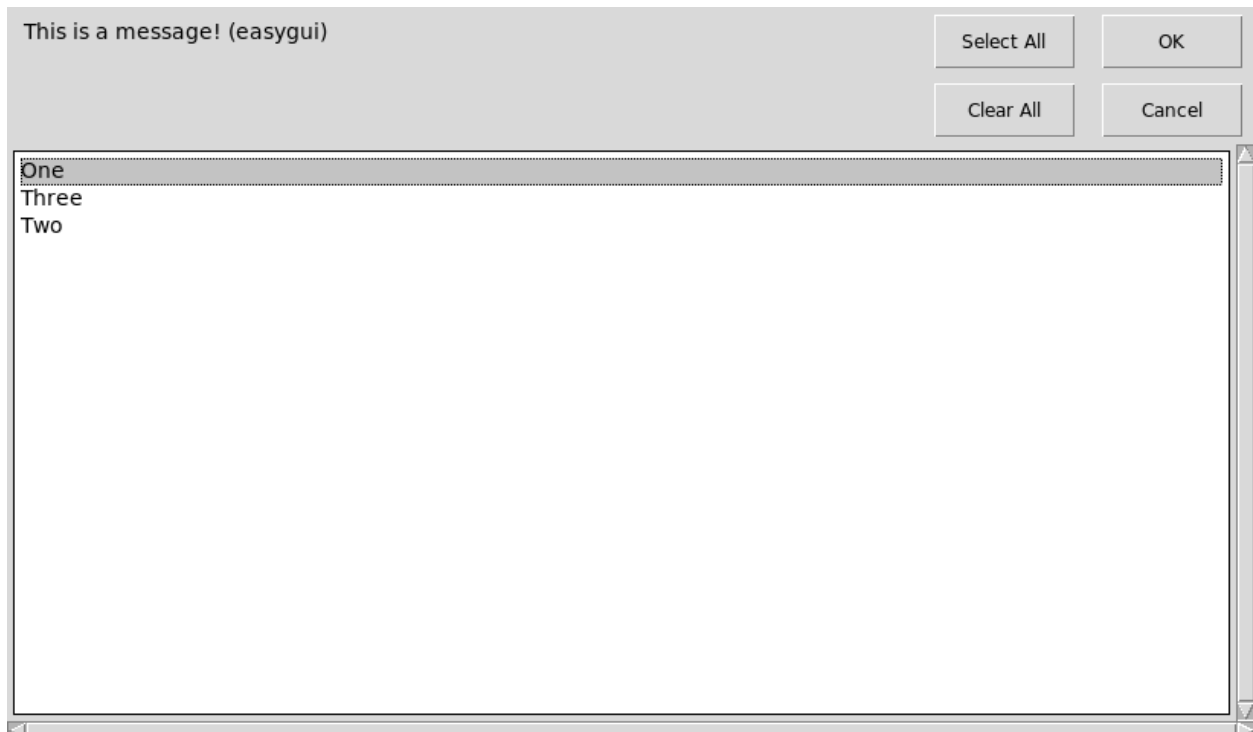
5.7.1 console

```
$ xterm -e "python -m psidialogs.examples.demo -b console -f multi_choice"
```

```
True
This is a message! (console)
[0] One
[1] Two
[2] Three
Select:[]
```

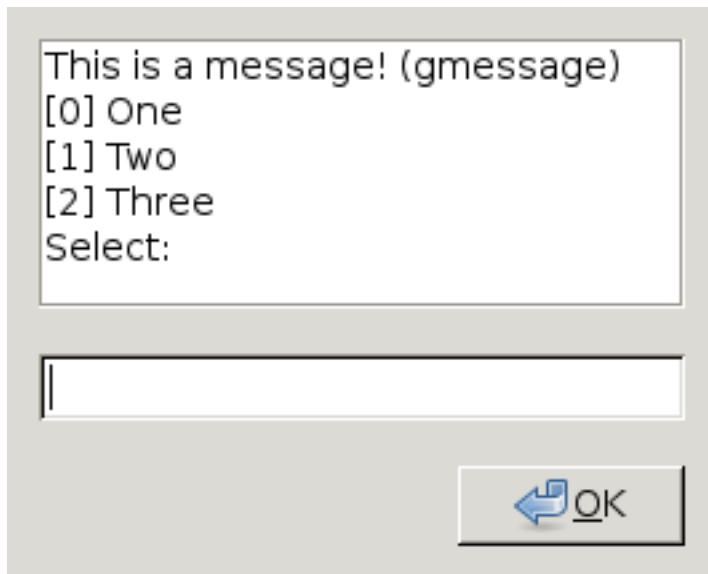
5.7.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f multi_choice
```



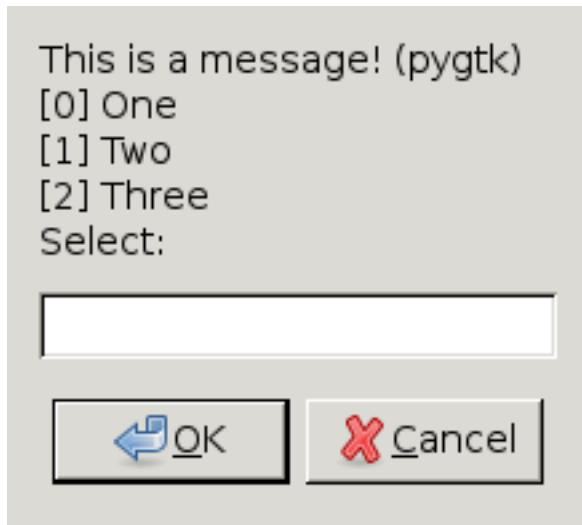
5.7.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f multi_choice
```



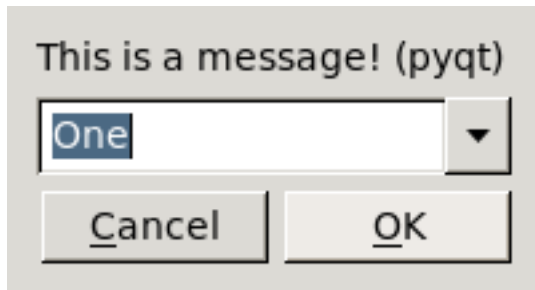
5.7.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f multi_choice
```



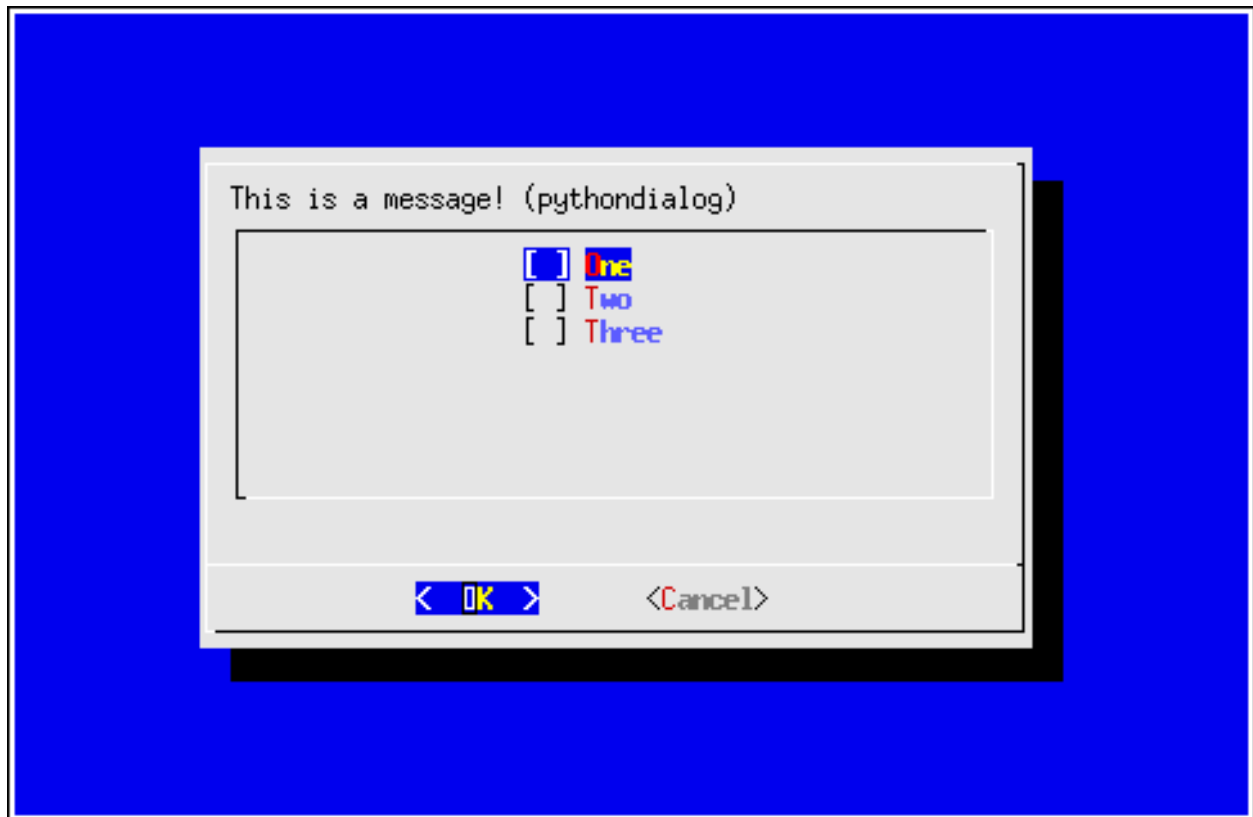
5.7.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f multi_choice
```



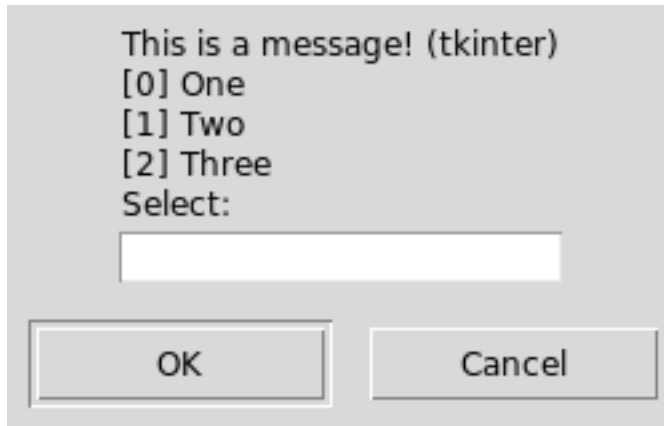
5.7.6 pythondialog

```
$ xterm -e "python -m psidialogs.examples.demo -b pythondialog -f multi_choice"
```



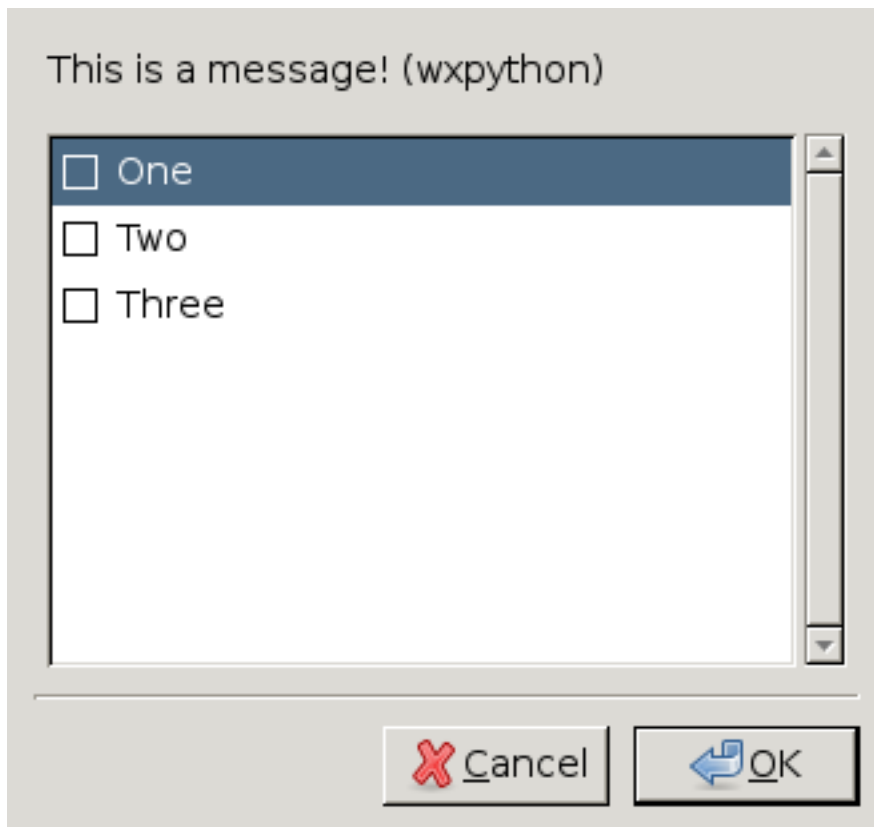
5.7.7 tkinter

```
$ python -m psidialogs.examples.demo -b tkinter -f multi_choice
```



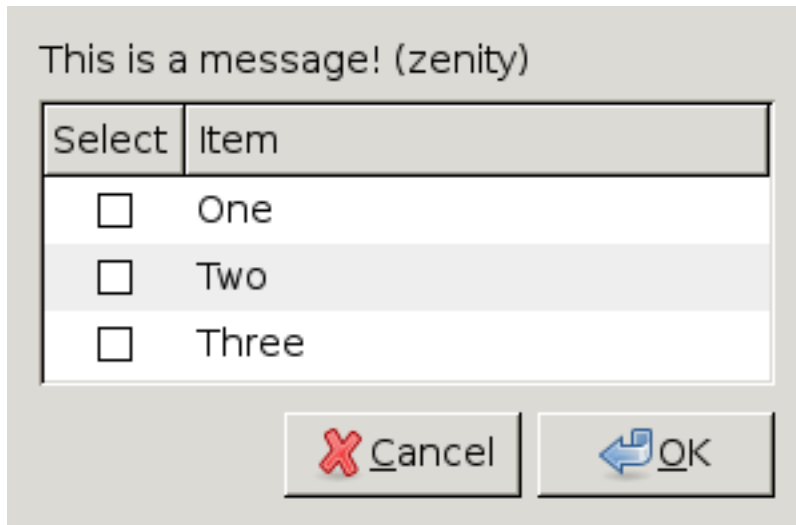
5.7.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f multi_choice
```



5.7.9 zenity

```
$ python -m psidialogs.examples.demo -b zenity -f multi_choice
```



5.8 text()

API

5.8.1 console

```
$ xterm -e "python -m psidialogs.examples.demo -b console -f text"
```

```
while 1:
    #d = dict([(x,backend, x.name) for x in psidialogs.all_backends()])
    #names=sorted(d.keys())
    names=sorted(BackendLoader().all_names)
    b = psidialogs.choice(names, 'Select backend!', title=title)
    if not b:
        break
    BackendLoader().force(b)
    try:
        BackendLoader().selected()
    except Exception, detail:
        BackendLoader().force(None)
        psidialogs.text('Exception:\n' + str(detail))
        continue

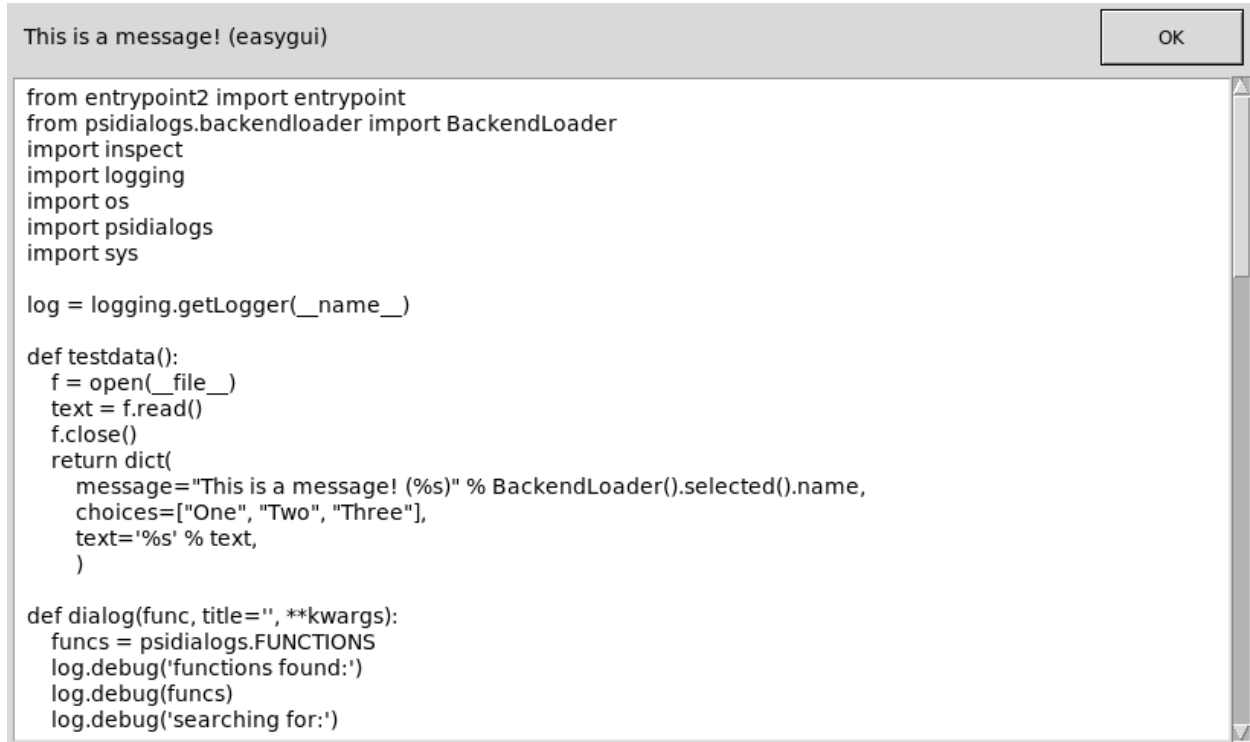
    #psidialogs.set_backend(force_backend=d[b])
    selectfunc(title, **kwargs)

@entrypoint
def demo(backend=None, function=None, title=''):
    print os.isatty(sys.stdout.fileno())
    selectbackend(backend=backend, function=function, title=title)

[ENTER]
```


5.8.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f text
```



5.8.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f text
```

```
This is a message! (gmessage)
from entrypoint2 import entrypoint
from psidialogs.backendloader import BackendLoader
import inspect
import logging
import os
import psidialogs
import sys

log = logging.getLogger(__name__)

def testdata():
    f = open(__file__)
    text = f.read()
    f.close()
    return dict(
        message="This is a message! (%s)" % BackendLoader().selected().name,
        choices=["One", "Two", "Three"],
        text='%s' % text,
    )

def dialog(func, title="", **kwargs):
    funcs = psidialogs.FUNCTIONS
    log.debug('functions found:')
    log.debug(funcs)
    log.debug('searching for:')
    log.debug(func)
    f = None
    for x in funcs:
        if x.__name__ == func:
```



5.8.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f text
```



```

This is a message! (pygtk)
from entrypoint2 import entrypoint
from psidialogs.backendloader import BackendLoader
import inspect
import logging
import os
import psidialogs
import sys

log = logging.getLogger(__name__)

def testdata():
    f = open(__file__)
    text = f.read()
    f.close()
    return dict(
        message="This is a message! (%s)" % BackendLoader
        ().selected().name,
        choices=["One", "Two", "Three"],
        text='%s' % text,
    )

def dialog(func, title="", **kwargs):
    funcs = psidialogs.FUNCTIONS
    log.debug('functions found:')
    log.debug(funcs)
    log.debug('searching for:')
    log.debug(func)
    f = None
    for x in funcs:
        if x.__name__ == func:
            f = x
    assert f
    argnames, varargs, varkw, defaults = inspect.getargspec(f)
    #argnames = psidialogs.argnames(func)
    args = testdata()
    if title:
        args['title'] = title
    args = dict([(k, v) for (k, v) in args.items() if k in argnames])
    result=None
    exec 'result = psidialogs.%s(**args)' % (func)
    #result = psidialogs.__dict__[func](**args)
    #print 'result: ', result
    log.debug('result:'+str(result))
    if result is not None:

```

5.8.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f text
```



```
This is a message! (pyqt)
from entrypoint2 import entrypoint
from psidialogs.backendloader import BackendLoader
import inspect
import logging
import os
import psidialogs
import sys
```

```
log = logging.getLogger(__name__)
```

```
def testdata():
    f = open(__file__)
    text = f.read()
    f.close()
    return dict(
        message="This is a message! (%s)" %
BackendLoader().selected().name,
        choices=["One", "Two", "Three"],
        text='%s' % text,
    )
```

```
def dialog(func, title="", **kwargs):
    funcs = psidialogs.FUNCTIONS
    log.debug('functions found:')
    log.debug(funcs)
    log.debug('searching for:')
    log.debug(func)
    f = None
    for x in funcs:
        if x.__name__ == func:
            f = x
    assert f
    argnames, varargs, varkw, defaults =
inspect.getargspec(f)
    #argnames = psidialogs.argnames(func)
    args = testdata()
    if title:
        args['title'] = title
    args = dict([(k, v) for (k, v) in args.items() if k in
argnames])
```

```
result=None
exec 'result = psidialogs.%s(**args)' % (func)
#result = psidialogs.__dict__[func](**args)
#print 'result: ', result
```

5.8.6 pythondialog

```
$ xterm -e "python -m psidualogs.examples.demo -b pythondialog -f text"
```



```
from entrypoint2 import entrypoint
from psidualogs.backendloader import BackendLoader
import inspect
import logging
import os
import psidualogs
import sys

log = logging.getLogger(__name__)

def testdata():
    f = open(__file__)
    text = f.read()
    f.close()
    return dict(
        message="This is a message! (%s)" % BackendLoader().selected().nam
    )
```

(+) < EXIT > 13%

5.8.7 tkinter

```
$ python -m psidualogs.examples.demo -b tkinter -f text
```

```

    assert f
    argnames, varargs, varkw, defaults
= inspect.getargspec(f)
    #argnames =
psidialogs.argnames(func)
    args = testdata()
    if title:
        args['title'] = title
        args = dict([(k, v) for (k, v) in
args.items() if k in argnames])
        result=None
        exec 'result =
psidialogs.%(**args)' % (func)
        #result =
psidialogs.__dict__[func](**args)
        #print 'result: ', result
        log.debug('result:'+str(result))
        if result is not None:
            psidialogs.text('Return
value="%(**args)" % result)

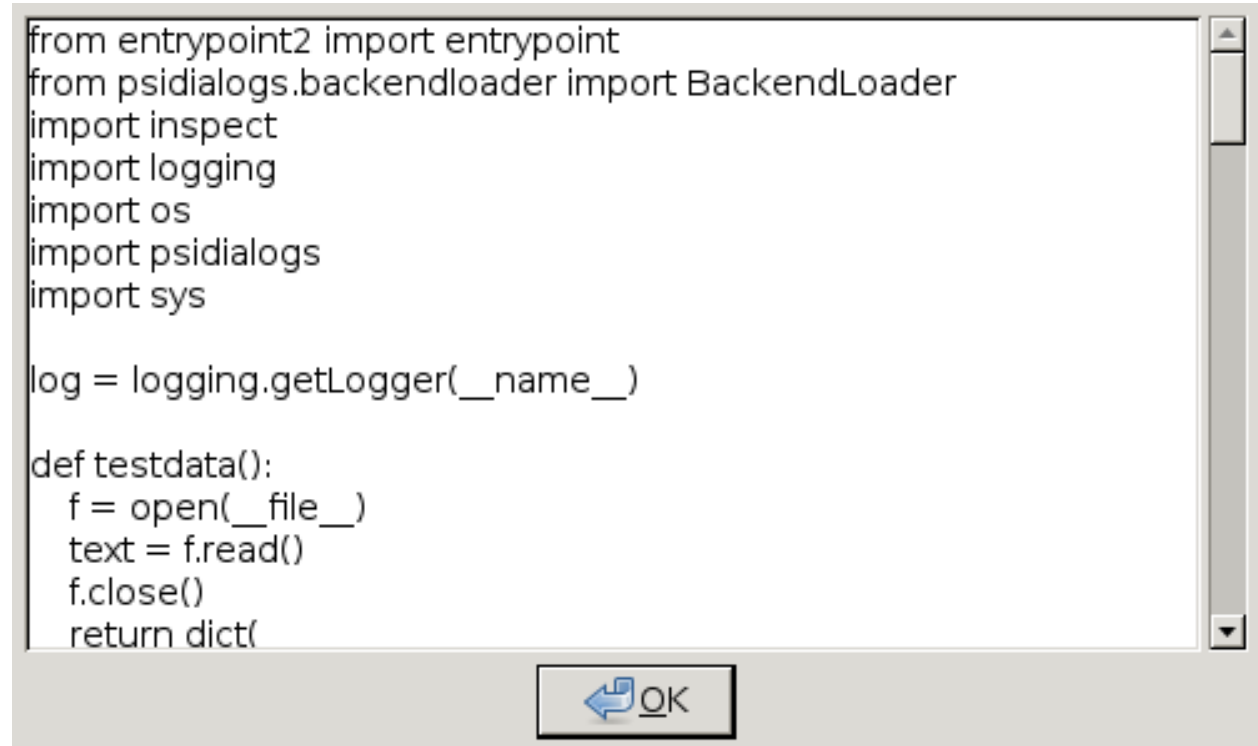
def selectfunc(title="",
function=None, **kwargs):
    if function:
        dialog(function, title, **kwargs)
    else:
        while 1:
            funcs =
psidialogs.FUNCTION_NAMES
            funcs.sort()
            func =
psidialogs.choice(funcs, 'Select
function!', title=title)
            if not func:
                break
            dialog(func, title, **kwargs)

def selectbackend(backend=None,
title="", **kwargs):
    if backend:
        BackendLoader().force(backend)

```

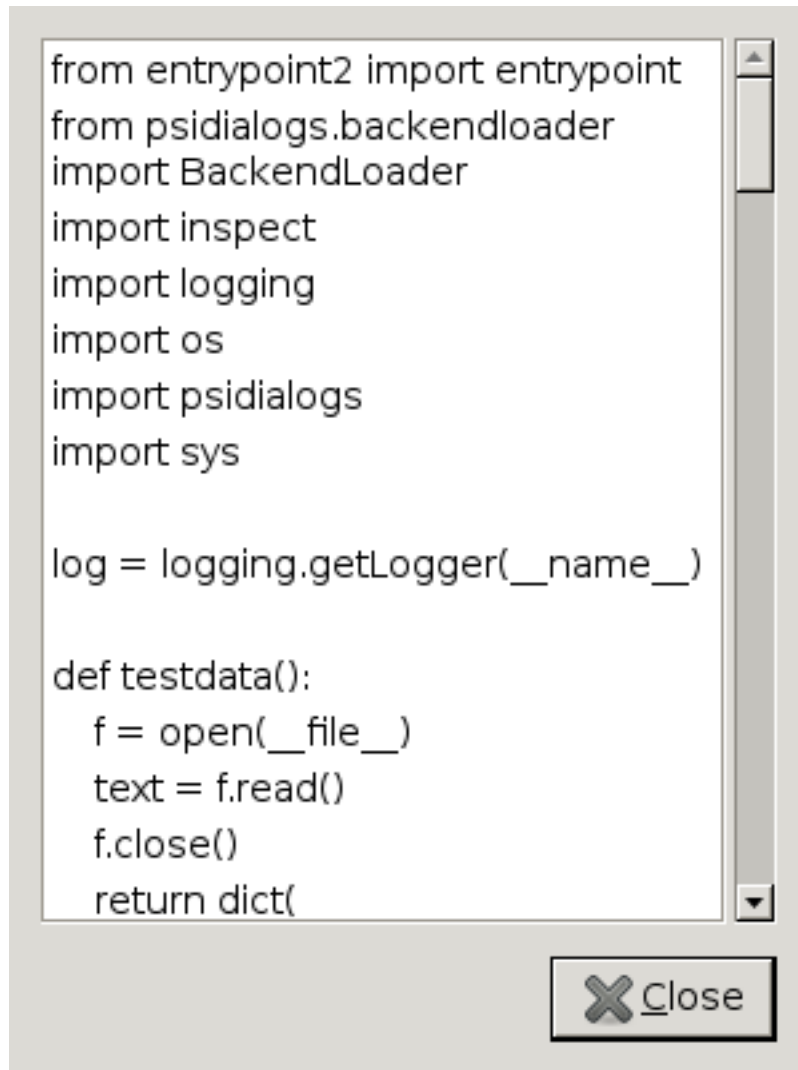
5.8.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f text
```



5.8.9 zenity

```
$ python -m psidialogs.examples.demo -b zenity -f text
```

5.9 warning()

API

5.9.1 console

```
$ xterm -e "python -m psidialogs.examples.demo -b console -f warning"
```

```
True  
[WARNING] This is a message! (console)[ENTER]
```

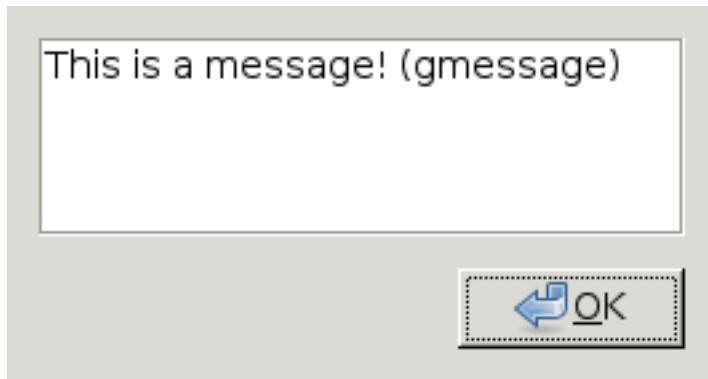
5.9.2 easygui

```
$ python -m psidialogs.examples.demo -b easygui -f warning
```



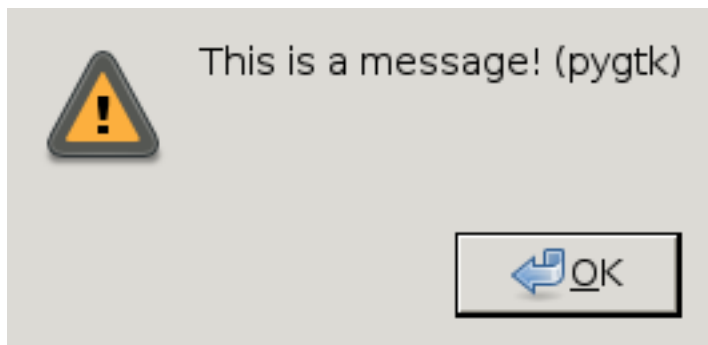
5.9.3 gmessage

```
$ python -m psidialogs.examples.demo -b gmessage -f warning
```



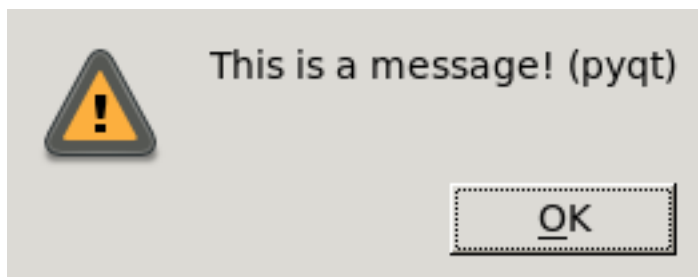
5.9.4 pygtk

```
$ python -m psidialogs.examples.demo -b pygtk -f warning
```



5.9.5 pyqt

```
$ python -m psidialogs.examples.demo -b pyqt -f warning
```



5.9.6 pythondialog

```
$ xterm -e "python -m psidialogs.examples.demo -b pythondialog -f warning"
```



5.9.7 tkinter

```
$ python -m psidialogs.examples.demo -b tkinter -f warning
```



5.9.8 wxpython

```
$ python -m psidialogs.examples.demo -b wxpython -f warning
```



5.9.9 zenity

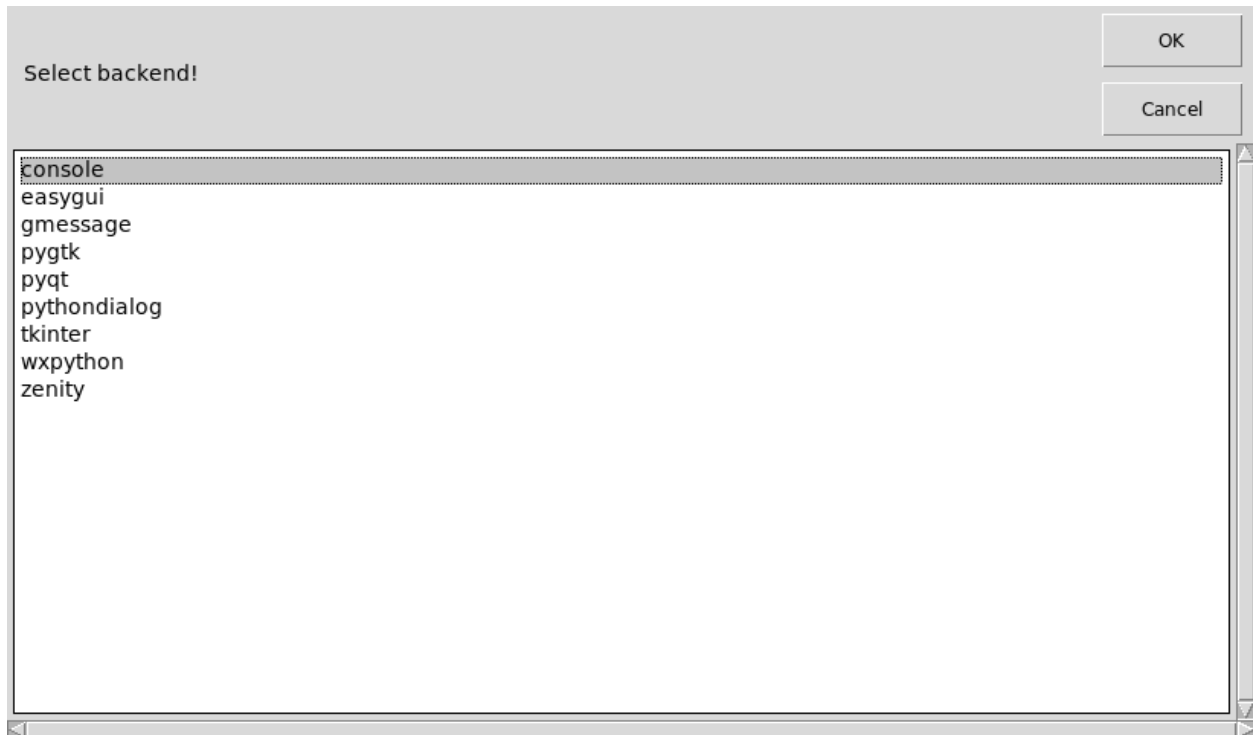
```
$ python -m psidialogs.examples.demo -b zenity -f warning
```



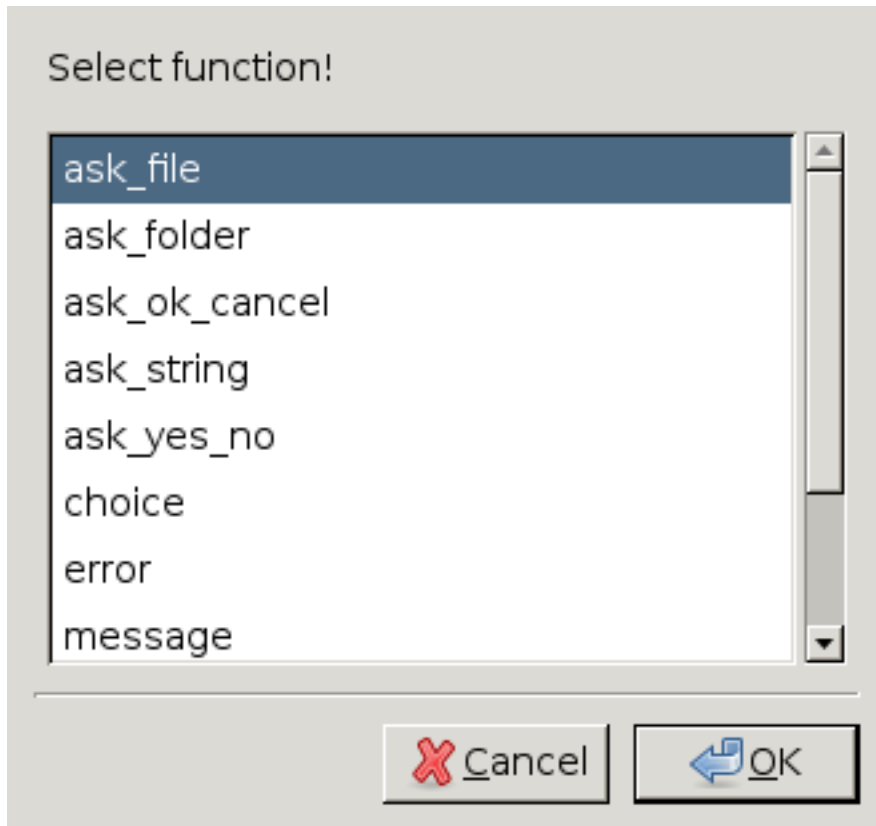
DEMO

Backends and functions can be selected from list or as command line parameter

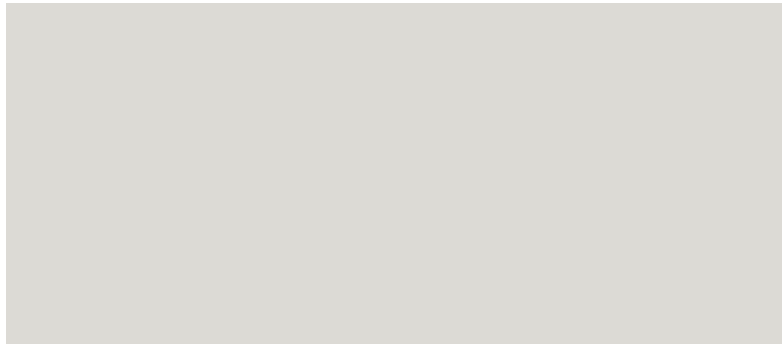
```
$ python -m psidialogs.examples.demo
```



```
$ python -m psidialogs.examples.demo --backend wxpython
```



```
$ python -m psidialogs.examples.demo --backend wxpython --function message
```



6.1 command line help

```
$ python -m psidialogs.examples.demo --help
usage: demo.py [-h] [-b BACKEND] [-f FUNCTION] [-t TITLE] [--debug]
```

optional arguments:

```
-h, --help            show this help message and exit
-b BACKEND, --backend BACKEND
-f FUNCTION, --function FUNCTION
-t TITLE, --title TITLE
--debug              set logging level to DEBUG
```

SIMILAR PROJECTS

- anygui (<http://anygui.sourceforge.net/>): multiple backends, abandoned
- easygui (<http://easygui.sourceforge.net/>): tk backend

DEVELOPMENT

8.1 Tools

1. `setuptools`
2. `Paver`
3. `nose`
4. `ghp-import`
5. `pyflakes`
6. `pychecker`
7. `paved fork`
8. `Sphinx`
9. `sphinxcontrib-programsscreenshot`
10. `sphinxcontrib-paverutils`
11. `autorun` from `sphinx-contrib` (there is no simple method, you have to download/unpack/setup)

8.2 Install on ubuntu

```
sudo apt-get install python-setuptools
sudo apt-get install python-paver
sudo apt-get install python-nose
sudo easy_install ghp-import
sudo apt-get install pyflakes
sudo apt-get install pychecker
sudo easy_install https://github.com/ponty/paved/zipball/master
sudo apt-get install scrot
sudo apt-get install xvfb
sudo apt-get install xserver-xephyr
sudo apt-get install python-imaging
sudo apt-get install python-sphinx
sudo easy_install sphinxcontrib-programsscreenshot
sudo easy_install sphinxcontrib-programoutput
sudo easy_install sphinxcontrib-paverutils
```

8.3 Tasks

[Paver](#) is used for task management, settings are saved in `pavement.py`. [Sphinx](#) is used to generate documentation.

print [paver](#) settings:

```
paver printoptions
```

clean generated files:

```
paver clean
```

generate documentation under *docs/_build/html*:

```
paver cog pdf html
```

upload documentation to [github](#):

```
paver ghpages
```

run unit tests:

```
paver nose
#or
nosetests --verbose
```

check python code:

```
paver pyflakes
paver pychecker
```

generate python distribution:

```
paver sdist
```

upload python distribution to [PyPI](#):

```
paver upload
```

INDICES AND TABLES

- *genindex*
- *modindex*
- *search*

PYTHON MODULE INDEX

p

psidialogs, 8

INDEX

A

`ask_file()` (in module `psialogs`), 5
`ask_folder()` (in module `psialogs`), 5
`ask_ok_cancel()` (in module `psialogs`), 6
`ask_string()` (in module `psialogs`), 6
`ask_yes_no()` (in module `psialogs`), 6

C

`choice()` (in module `psialogs`), 7

E

`error()` (in module `psialogs`), 7

M

`message()` (in module `psialogs`), 7
`multi_choice()` (in module `psialogs`), 7

P

`psialogs` (module), 5–8

T

`text()` (in module `psialogs`), 8

W

`warning()` (in module `psialogs`), 8