

# QPython

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- # Ένα περιβάλλον ανάπτυξης και εκτέλεσης Python scripts
- # λειτουργεί σε συσκευές Android
- # δίνει αρκετές δυνατότητες ανάπτυξης εφαρμογών
- # είναι σε φάση που υπάρχει έντονη κινητικότητα στην ανάπτυξή της

# Development Kit

## Console

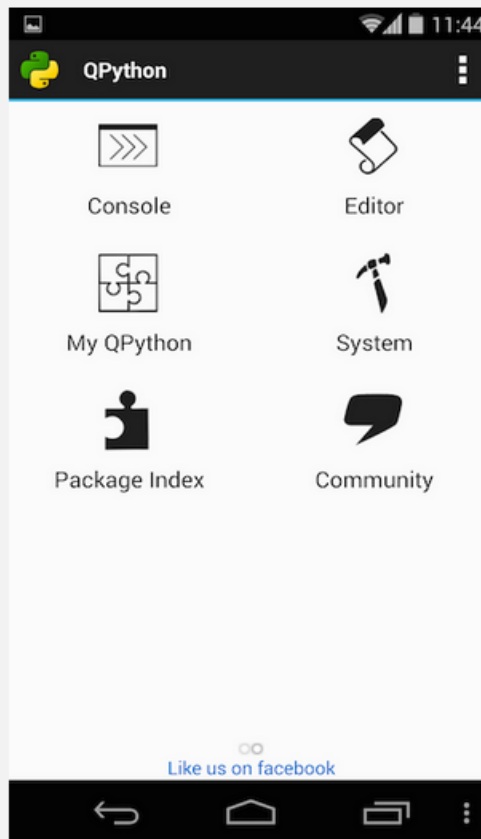
Yes, it's a standard Python console. You can communicate with the interpreter directly.

## <> My QPython

You can find some sample scripts and projects here.

## Package Index

QPyPI index page keeps a list of packages you can install.



## Editor

QPython's editor is fully integrated with the rest of the SDK. You can edit & run your code without leaving the SDK.

## System

System maintains your QPython's libraries. You can install / uninstall them from here.

## Community

If you have a question, feel free to ask in the community forums. It is monitored by our staff 24/7.



Ευρωπαϊκή Ένωση  
Ευρωπαϊκό Ταμείο  
Περιφερειακής  
Ανάπτυξης



ΨΗΦΙΑΚΗ ΣΥΓΚΛΙΣΗ  
Όλα είναι δυνατά  
Επιχειρησιακό Πρόγραμμα  
"Ψηφιακή Σύγκλιση"



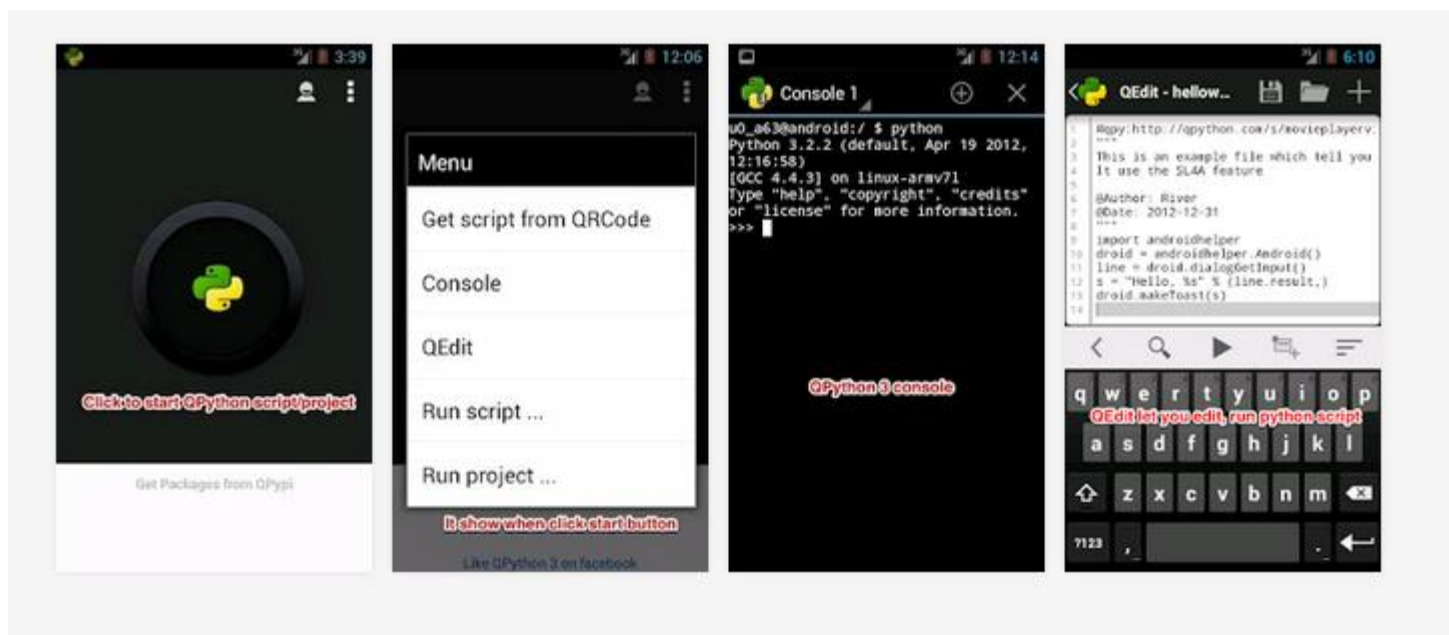
Διασυνδεδεμένος την Ήρευνα και π



Προώθηση ζωής για όλους



# Qpython 3



Ευρωπαϊκή Ένωση  
Ευρωπαϊκό Ταμείο  
Περιφερειακής  
Ανάπτυξης



Ψηφιακή ΑΓΡΑΔΑ  
Όλα είναι δυνατά  
Επιστησιακό Πρόγραμμα  
"Ψηφιακή Σύγκλιση"



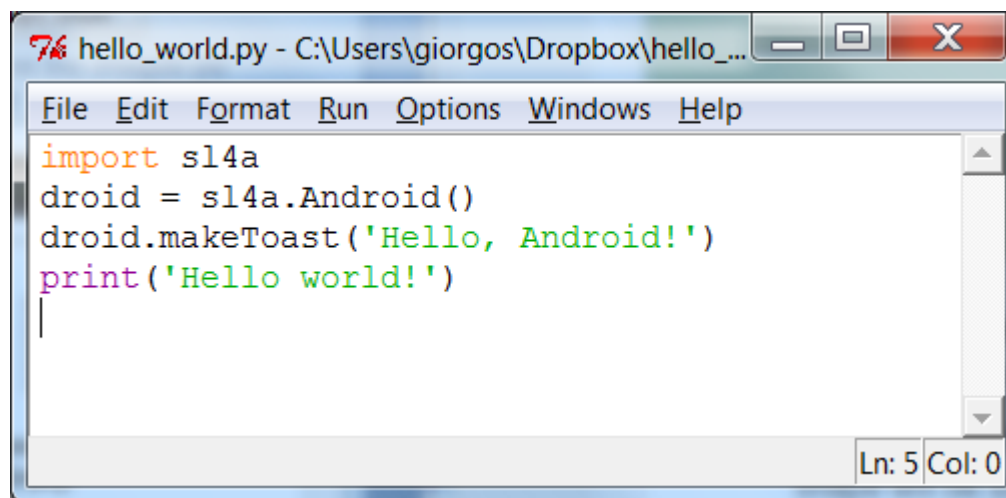
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Παιδεία για όλους

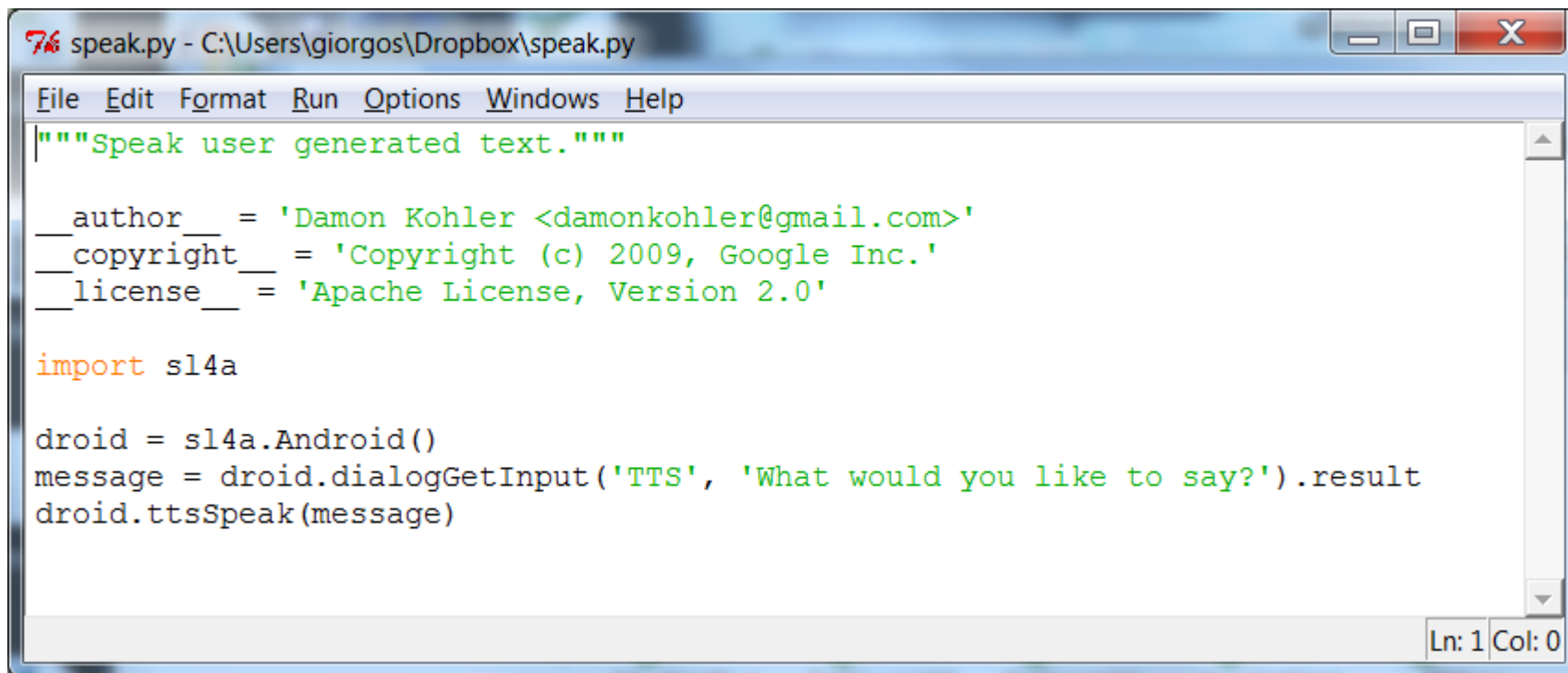


# hello world



```
76 hello_world.py - C:\Users\giorgos\Dropbox\hello_...  
File Edit Format Run Options Windows Help  
import sl4a  
droid = sl4a.Android()  
droid.makeToast('Hello, Android!')  
print('Hello world!')  
|  
Ln: 5 Col: 0
```

# speak



```
File Edit Format Run Options Windows Help
"""Speak user generated text."""

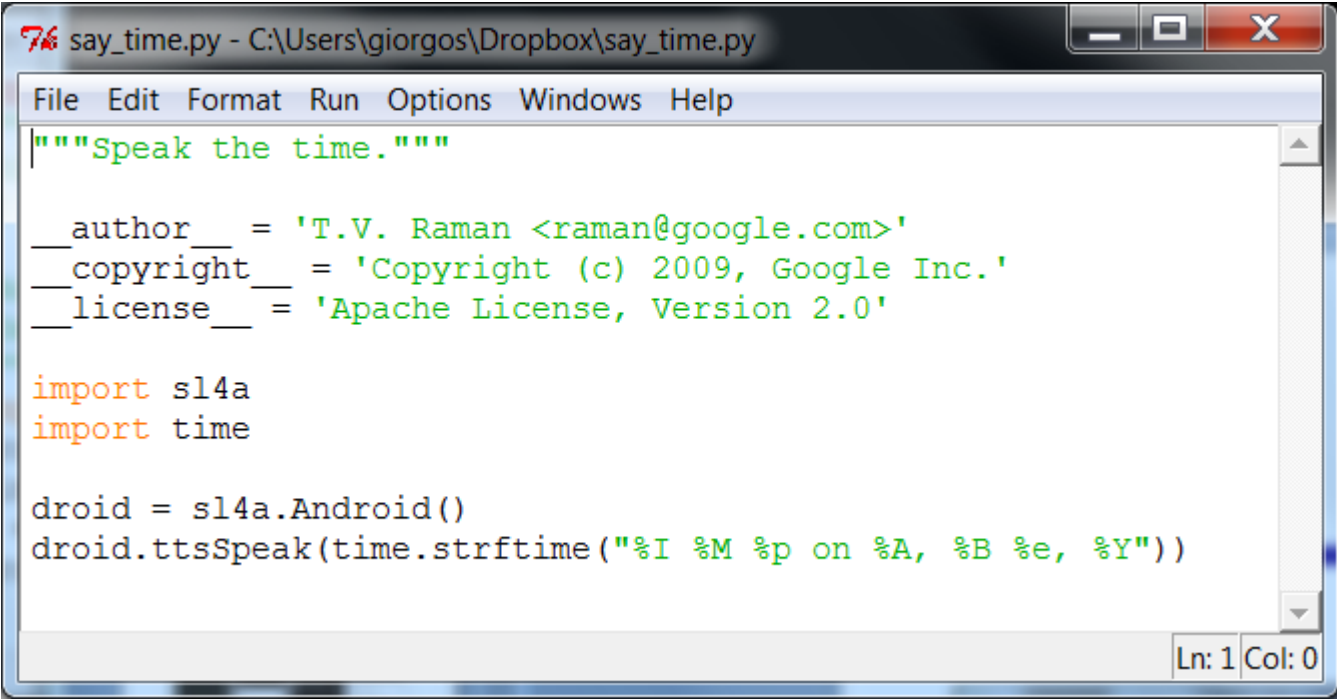
__author__ = 'Damon Kohler <damonkohler@gmail.com>'
__copyright__ = 'Copyright (c) 2009, Google Inc.'
__license__ = 'Apache License, Version 2.0'

import sl4a

droid = sl4a.Android()
message = droid.dialogGetInput('TTS', 'What would you like to say?').result
droid.ttsSpeak(message)

Ln: 1 Col: 0
```

# say time



```
say_time.py - C:\Users\giorgos\Dropbox\say_time.py
File Edit Format Run Options Windows Help
"""Speak the time."""

__author__ = 'T.V. Raman <raman@google.com>'
__copyright__ = 'Copyright (c) 2009, Google Inc.'
__license__ = 'Apache License, Version 2.0'

import sl4a
import time

droid = sl4a.Android()
droid.ttsSpeak(time.strftime("%I %M %p on %A, %B %e, %Y"))
```

Ln: 1 Col: 0

## *some ... tests*

```
test.py - C:\Users\giorgos\Dropbox\test.py

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def test_make_toast():
    result = droid.makeToast('Hello, world!')
    return result.error is None

def test_vibrate():
    result = droid.vibrate()
    return result.error is None

def test_notify():
    result = droid.notify('Test Title', 'Hello, world!')
    return result.error is None

Ln: 1 Col: 0
```

*some ...  
alerts*

```
test.py - C:\Users\giorgos\Dropbox\test.py
File Edit Format Run Options Windows Help

def test_alert_dialog_with_list():
    title = 'Alert'
    droid.dialogCreateAlert(title)
    droid.dialogSetItems(['foo', 'bar', 'baz'])
    droid.dialogShow()
    response = droid.dialogGetResponse().result
    return True

def test_alert_dialog_with_single_choice_list():
    title = 'Alert'
    droid.dialogCreateAlert(title)
    droid.dialogSetSingleChoiceItems(['foo', 'bar', 'baz'])
    droid.dialogSetPositiveButtonText('Yay!')
    droid.dialogShow()
    response = droid.dialogGetResponse().result
    return True

def test_alert_dialog_with_multi_choice_list():
    title = 'Alert'
    droid.dialogCreateAlert(title)
    droid.dialogSetMultiChoiceItems(['foo', 'bar', 'baz'], [])
    droid.dialogSetPositiveButtonText('Yay!')
    droid.dialogShow()
    response = droid.dialogGetResponse().result
    return True
```

Ln: 200 Col: 0

## more ... alerts

```
test.py - C:\Users\giorgos\Dropbox\test.py
File Edit Format Run Options Windows Help

def test_alert_dialog():
    title = 'User Interface'
    message = 'Welcome to the SL4A integration test.'
    droid.dialogCreateAlert(title, message)
    droid.dialogSetPositiveButtonText('Continue')
    droid.dialogShow()
    response = droid.dialogGetResponse().result
    return response['which'] == 'positive'

def test_alert_dialog_with_buttons():
    title = 'Alert'
    message = ('This alert box has 3 buttons and '
              'will wait for you to press one.')
    droid.dialogCreateAlert(title, message)
    droid.dialogSetPositiveButtonText('Yes')
    droid.dialogSetNegativeButtonText('No')
    droid.dialogSetNeutralButtonText('Cancel')
    droid.dialogShow()
    response = droid.dialogGetResponse().result
    return response['which'] in ('positive', 'negative', 'neutral')
```

Ln: 228 Col: 17

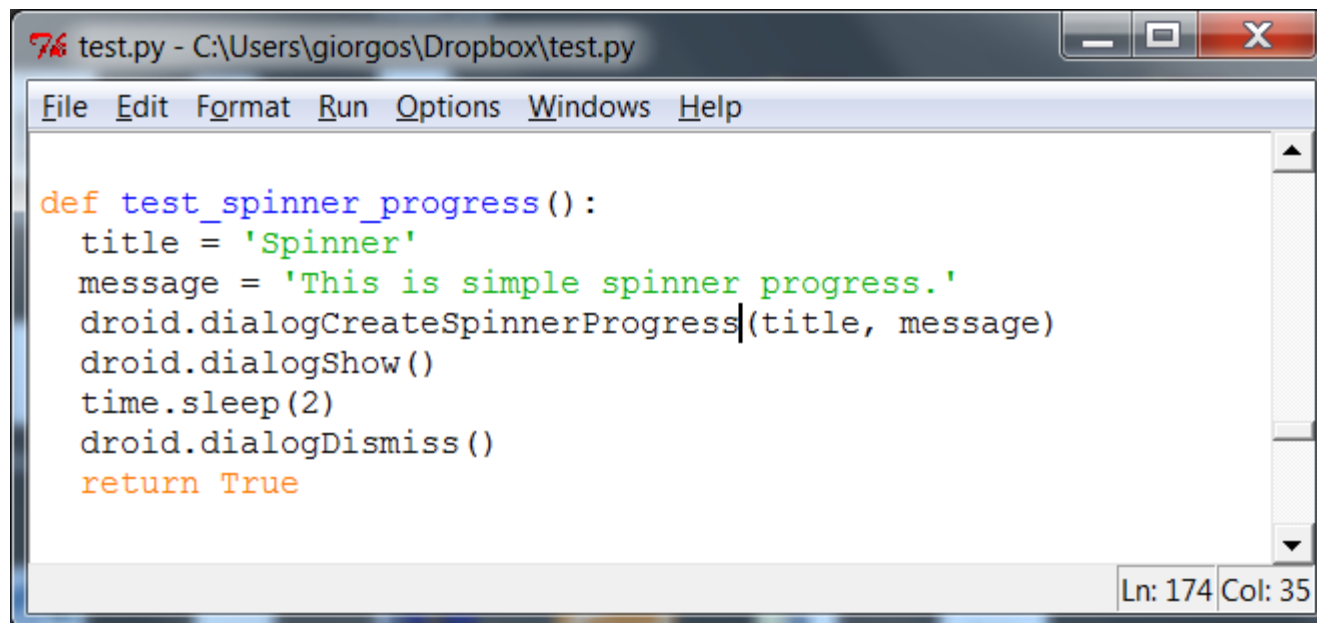
## horizontal progress

```
test.py - C:\Users\giorgos\Dropbox\test.py
File Edit Format Run Options Windows Help

def test_horizontal_progress():
    title = 'Horizontal'
    message = 'This is simple horizontal progress.'
    droid.dialogCreateHorizontalProgress(title, message, 50)
    droid.dialogShow()
    for x in range(0, 50):
        time.sleep(0.1)
        droid.dialogSetCurrentProgress(x)
    droid.dialogDismiss()
    return True

Ln: 200 Col: 0
```

## *spinner progress*



```
test.py - C:\Users\giorgos\Dropbox\test.py
File Edit Format Run Options Windows Help

def test_spinner_progress():
    title = 'Spinner'
    message = 'This is simple spinner progress.'
    droid.dialogCreateSpinnerProgress(title, message)
    droid.dialogShow()
    time.sleep(2)
    droid.dialogDismiss()
    return True

Ln: 174 Col: 35
```