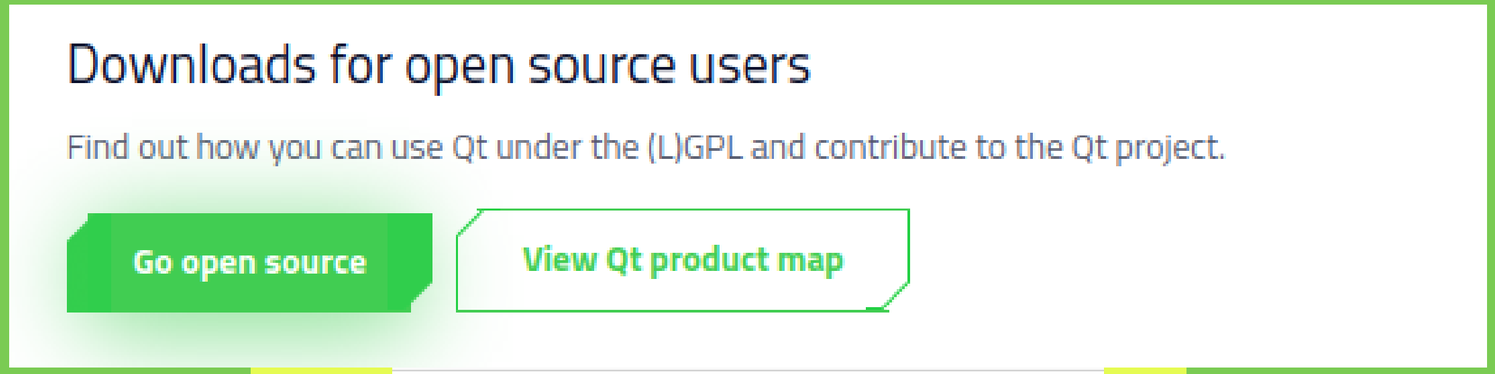
basics

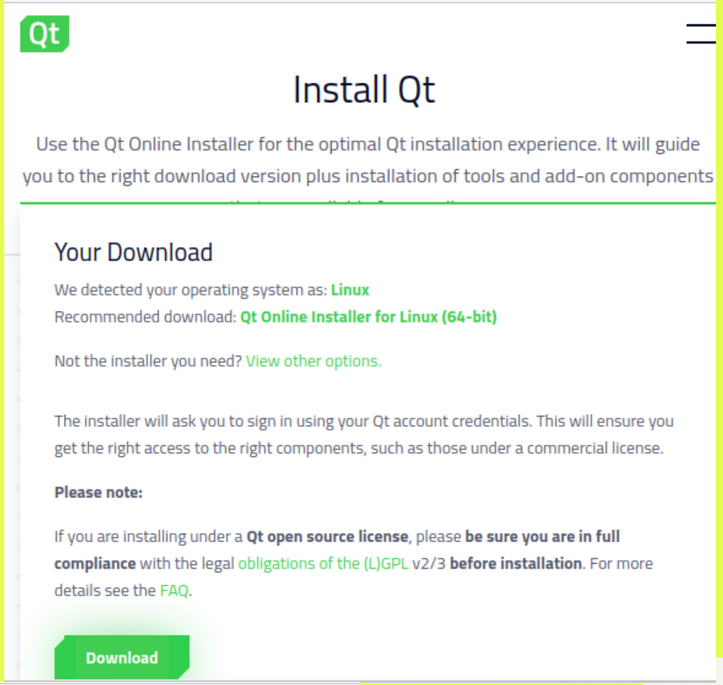
Підготувала
Кравець Ольга
ПМО-31

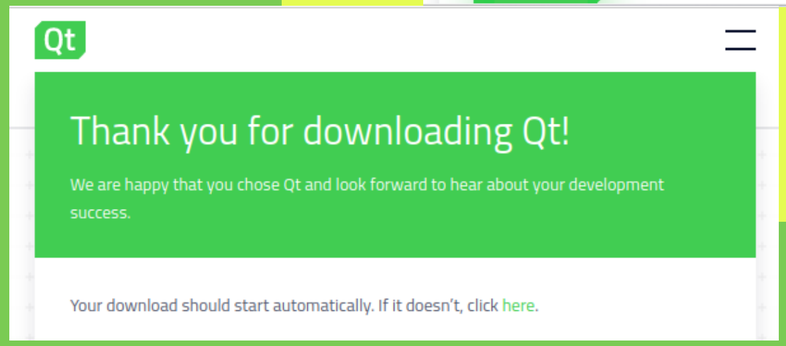
Простота + швидкість + потужність

ВСТАНОВЛЕННЯ QT CREATOR

https://www.qt.io/download







Крок 1:

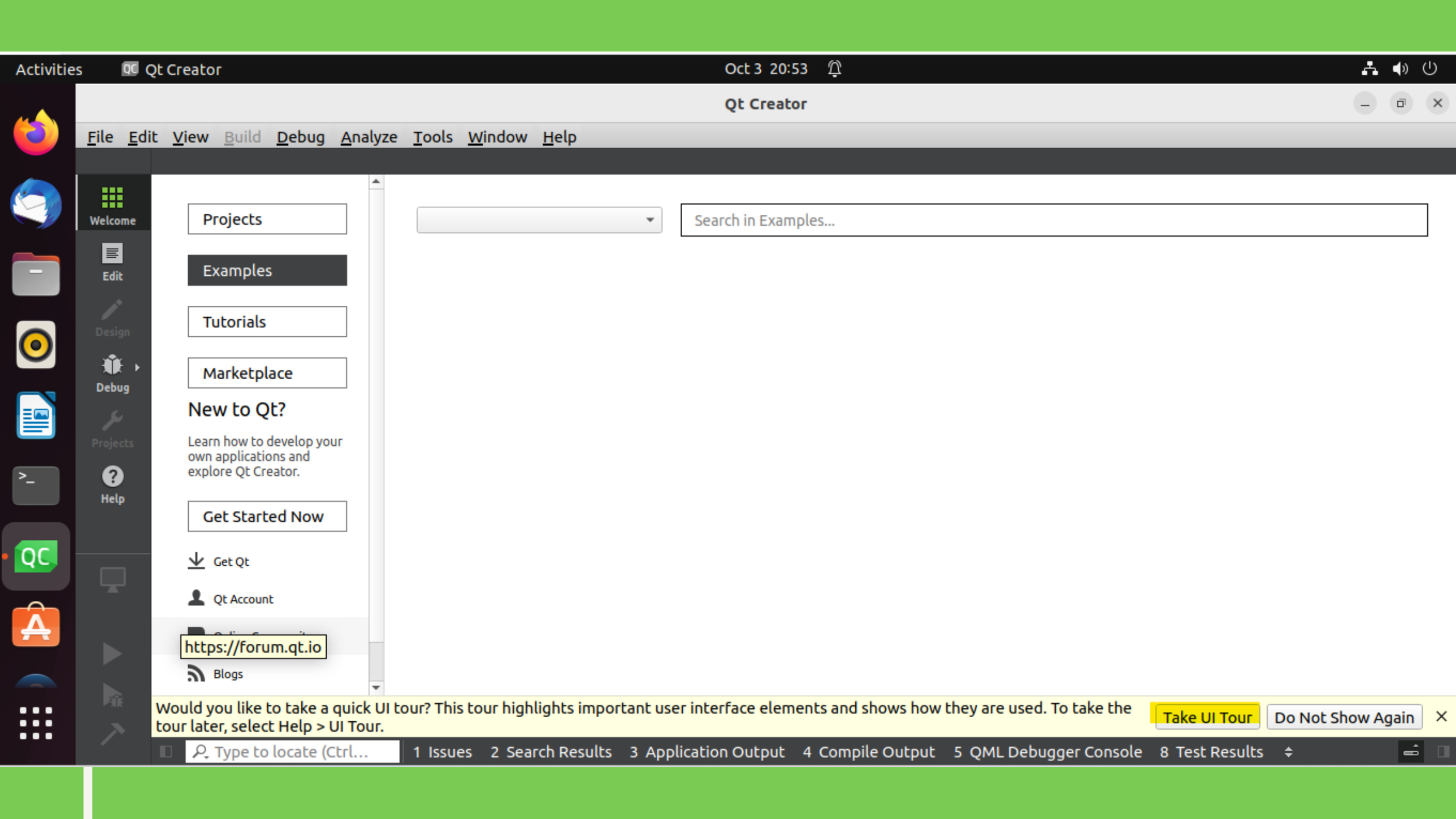
SUDO APT-GET INSTALL QTCREATOR

```
osboxes@osboxes:~$ sudo apt-get install qtcreator
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  binfmt-support clang-14 clang-tidy clang-tidy-14 clang-tools-14
  icu-devtools lib32gcc-s1 lib32stdc++6 libc6-i386
  libclang-common-14-dev libclang-cpp14 libclang1-14
  libdouble-conversion3 libffi-dev libicu-dev
  libkf5syntaxhighlighting-data libkf5syntaxhighlighting5 libllvm14
  libmd4c0 libncurses-dev libobjc-11-dev libobjc4 libpcre2-16-0
  libpfm4 libqt5concurrent5 libqt5core5a libqt5dbus5 libqt5designer5
  libqt5designercomponents5 libqt5gui5 libqt5help5 libqt5network5
  libqt5positioning5 libqt5printsupport5 libqt5qml5 libqt5qmlmodels5
  libqt5qmlworkerscript5 libqt5quick5 libqt5quicktest5
  libqt5quickwidgets5 libqt5sensors5 libqt5serialport5 libqt5sql5
  libqt5sql5-sqlite libqt5svg5 libqt5test5 libqt5webchannel5
  libqt5webkit5 libqt5widgets5 libqt5xml5 libqt5xmlpatterns5
  libtinfo-dev libxcb-xinerama0 libxcb-xinput0 libxml2-dev
  libyaml-cpp0.7 libz3-4 libz3-dev llvm-14 llvm-14-dev
  llvm-14-linker-tools llvm-14-runtime llvm-14-tools
  python3-pygments qdoc-qt5 qhelpgenerator-qt5
  qml-module-qtgraphicaleffects qml-module-qtqml
  qml-module-qtqml-models2 qml-module-qtquick-controls
  qml-module-qtquick-layouts qml-module-qtquick-window2
  qml-module-qtquick2 qmlscene qt3d5-doc qt5-assistant qt5-doc
  qt5-gtk-platformtheme qt5-qmltooling-plugins
  qtattributionsscanner-qt5 qtbase5-dev-tools qtbase5-doc
  qtcharts5-doc qtchooser qtconnectivity5-doc qtcreator-data
```

Крок 2:

SUDO APT-GET -Y INSTALL BUILD-ESSENTIAL OPENSSL LIBSSL-DEV LIBSSL1.0 LIBGL1-MESA-DEV LIBQT5X11EXTRAS5

```
osboxes@osboxes:~$ sudo apt-get -y install build-essential openss
l libssl-dev libssl1.0 libgl1-mesa-dev libqt5x11extras5
[sudo] password for osboxes:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'libssl1.0-dev' for regex 'libssl1.0'
build-essential is already the newest version (12.9ubuntu3).
openssl is already the newest version (3.0.2-0ubuntu1.6).
openssl set to manually installed.
The following additional packages will be installed:
  libegl-dev libgl-dev libgles-dev libgles1 libglvnd-core-dev
  libglvnd-dev libglx-dev libopengl-dev libpthread-stubs0-dev
  libx11-dev libxau-dev libxcb1-dev libxdmcp-dev x11proto-dev
  xorg-sgml-doctools xtrans-dev
Suggested packages:
  libssl-doc libx11-doc libxcb-doc
The following NEW packages will be installed:
  libegl-dev libgl-dev libgl1-mesa-dev libgles-dev libgles1
  libglvnd-core-dev libglvnd-dev libglx-dev libopengl-dev
  libpthread-stubs0-dev libqt5x11extras5 libssl-dev libx11-dev
  libxau-dev libxcb1-dev libxdmcp-dev x11proto-dev
```


Activities
Qt Creator
Oct 3 20:53
Qt Creator
File Edit View Build Debug Analyze Tools Window Help
Welcome
Edit
Design
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Projects
Help
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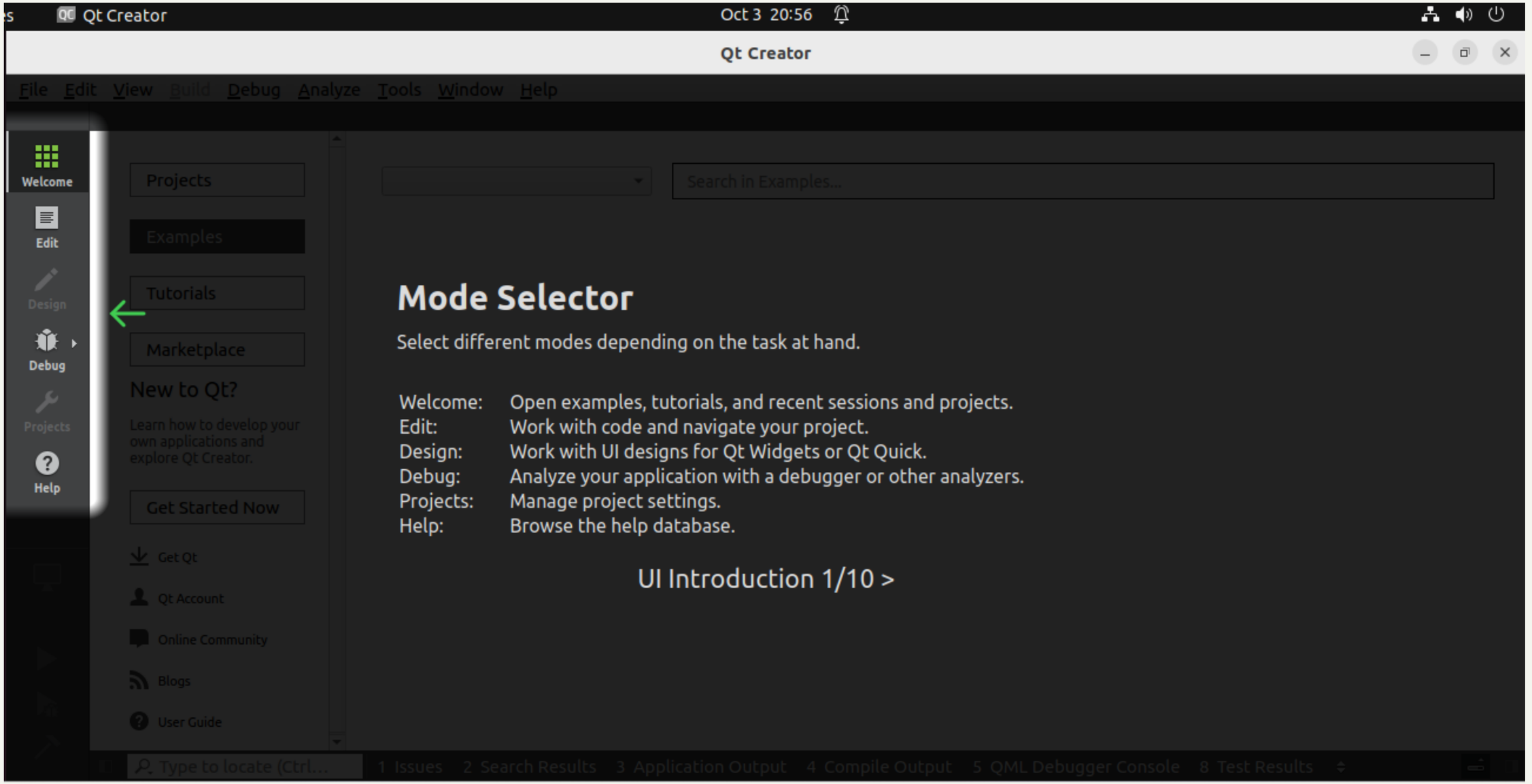
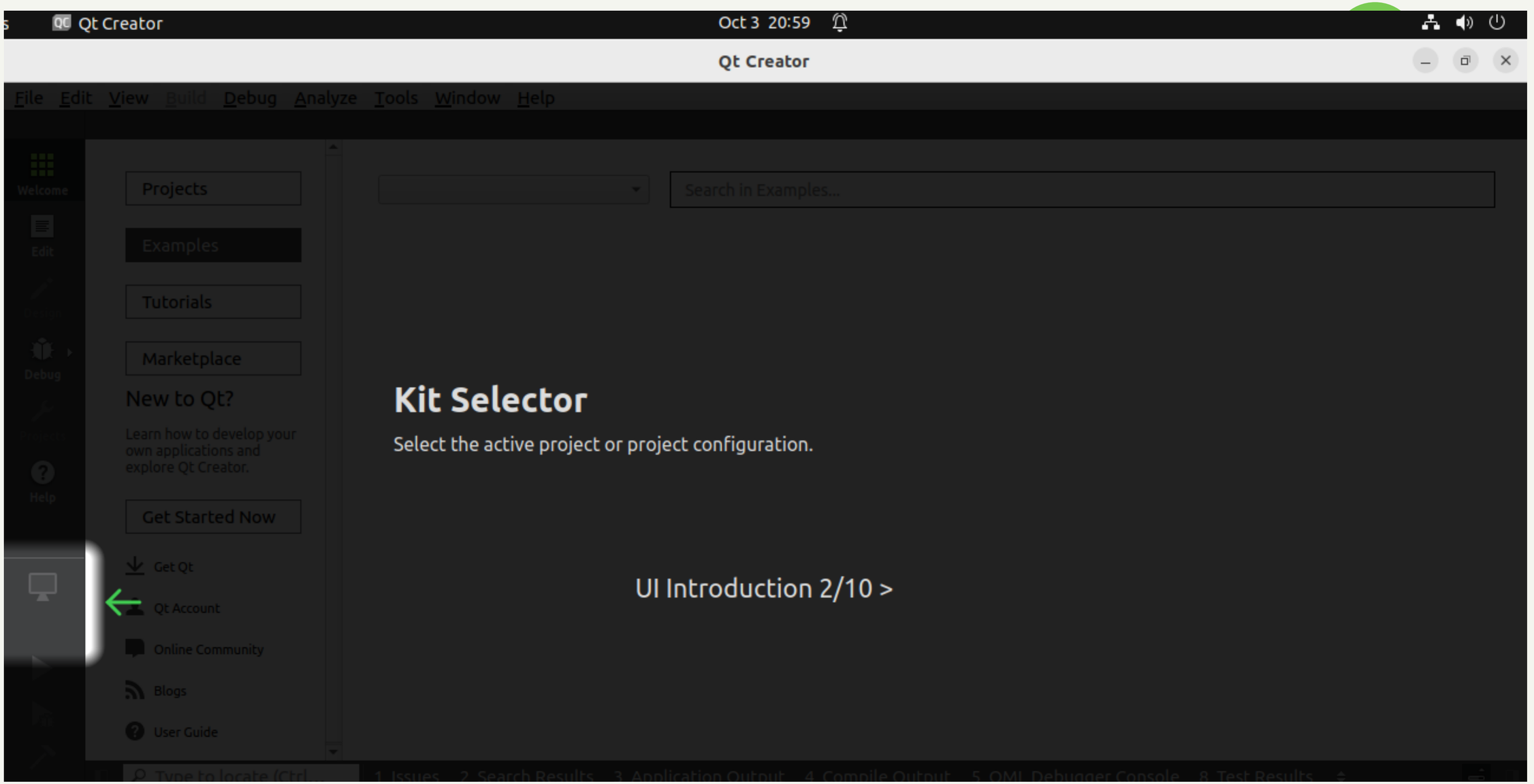
https://forum.qt.io
Blogs
Search in Examples...
Would you like to take a quick UI tour? This tour highlights important user interface elements and shows how they are used. To take the tour later, select Help > UI Tour.
Take UI Tour
Do Not Show Again
Type to locate (Ctrl...
1 Issues
2 Search Results
3 Application Output
4 Compile Output
5 QML Debugger Console
8 Test Results

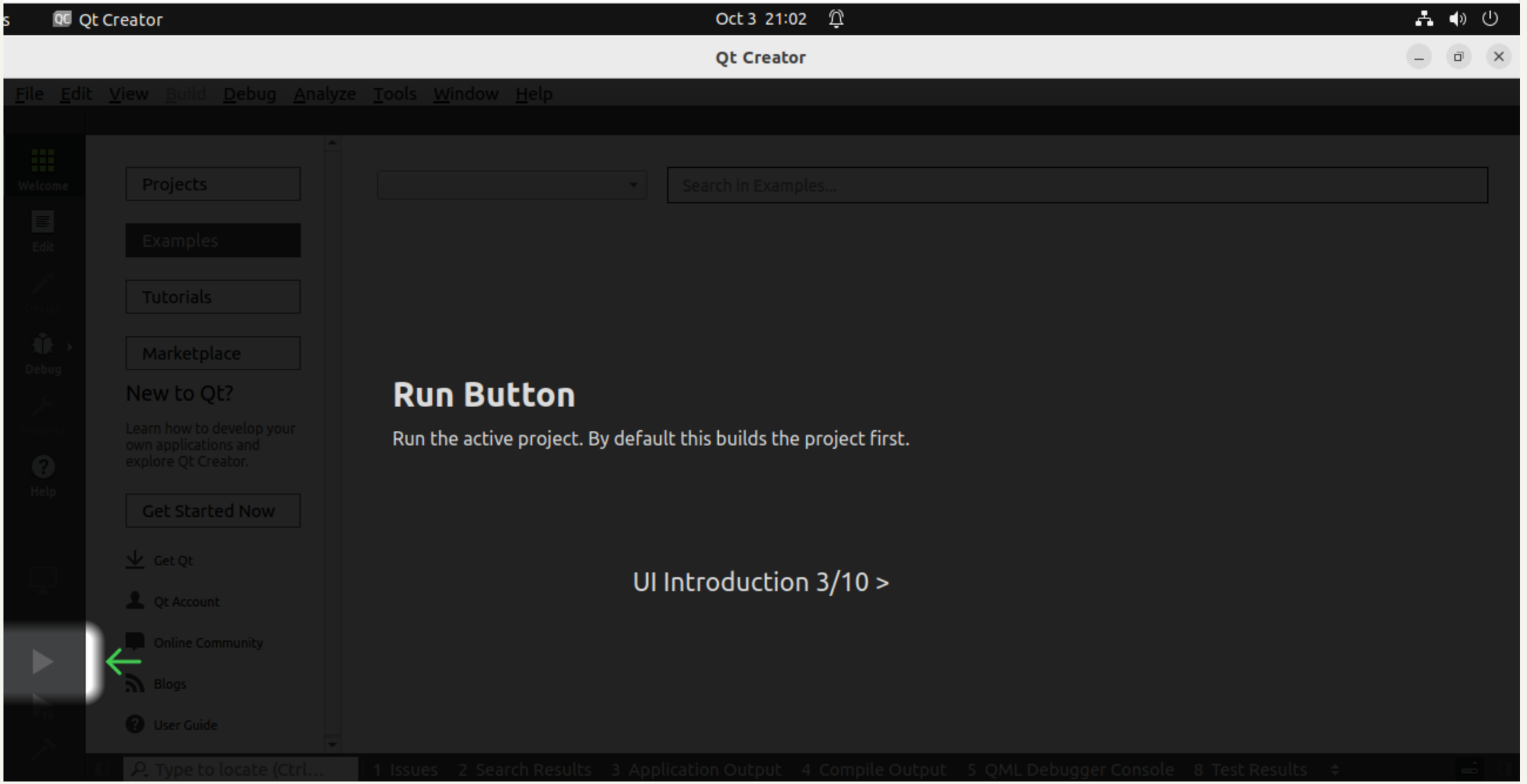
Mode Selector



Kit Selector



Run Button


Qt Creator
Oct 3 21:02
Qt Creator
File Edit View Build Debug Analyze Tools Window Help
Welcome
Edit
Debug
Help
Projects
Examples
Tutorials
Marketplace
New to Qt?
Learn how to develop your own applications and explore Qt Creator.
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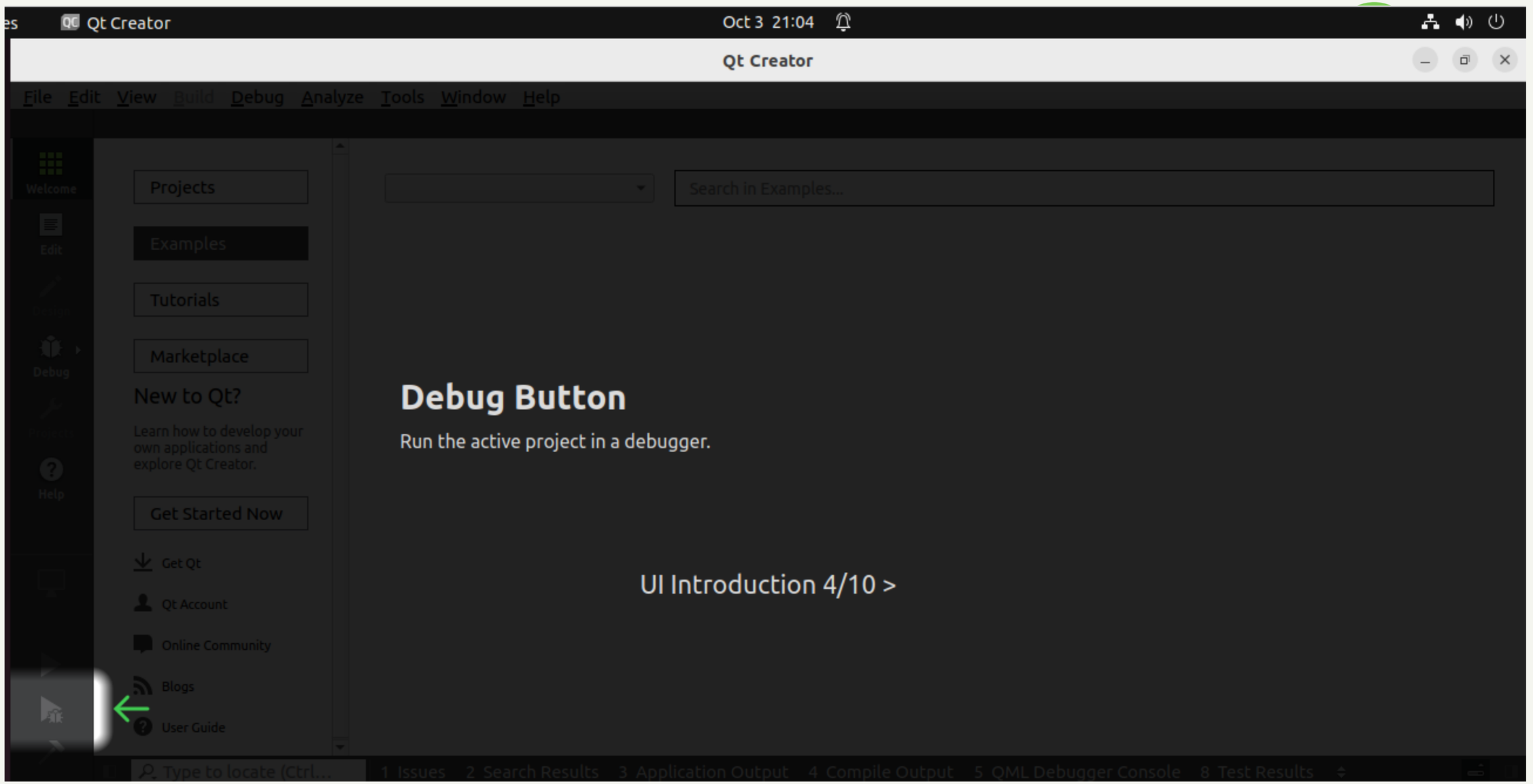
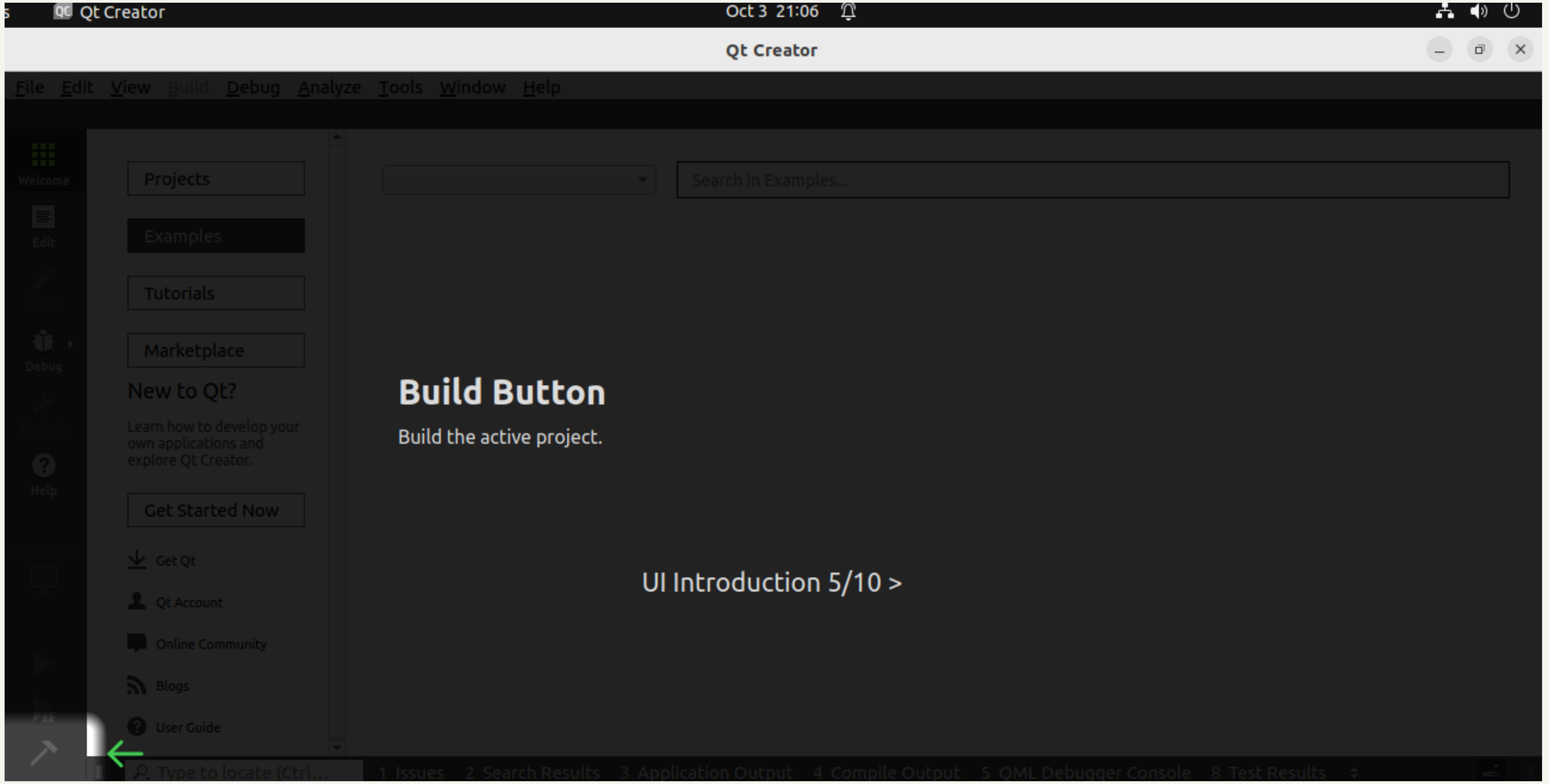
Online Community
Blogs
User Guide
Search in Examples...
Run Button
Run the active project. By default this builds the project first.
UI Introduction 3/10 >
Type to locate (Ctrl...
1 Issues 2 Search Results 3 Application Output 4 Compile Output 5 QML Debugger Console 8 Test Results

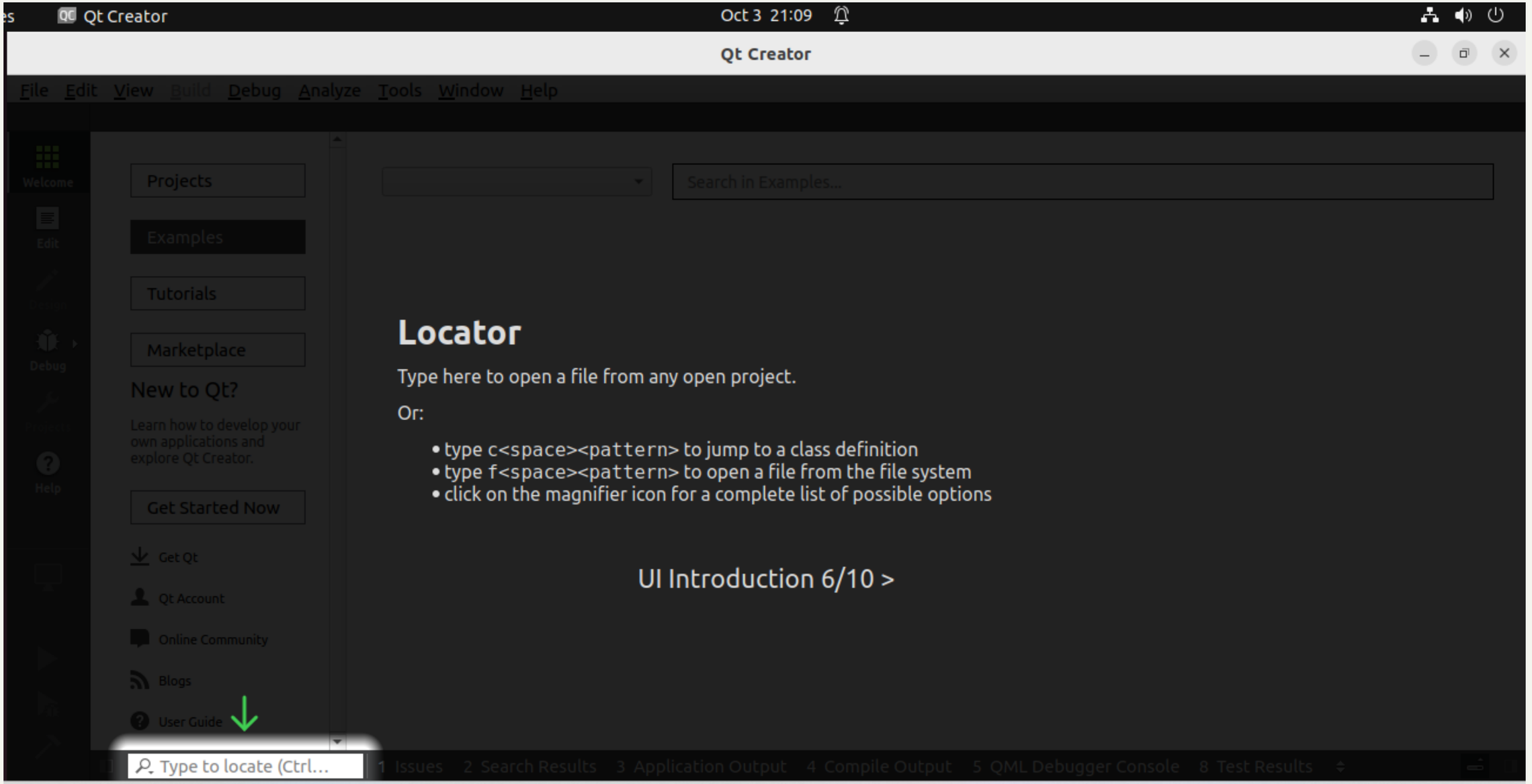
Debug Button



Build Button



Locator


Qt Creator
Oct 3 21:09
Qt Creator
File Edit View Build Debug Analyze Tools Window Help
Welcome
Edit
Debug
Help
Projects
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New to Qt?
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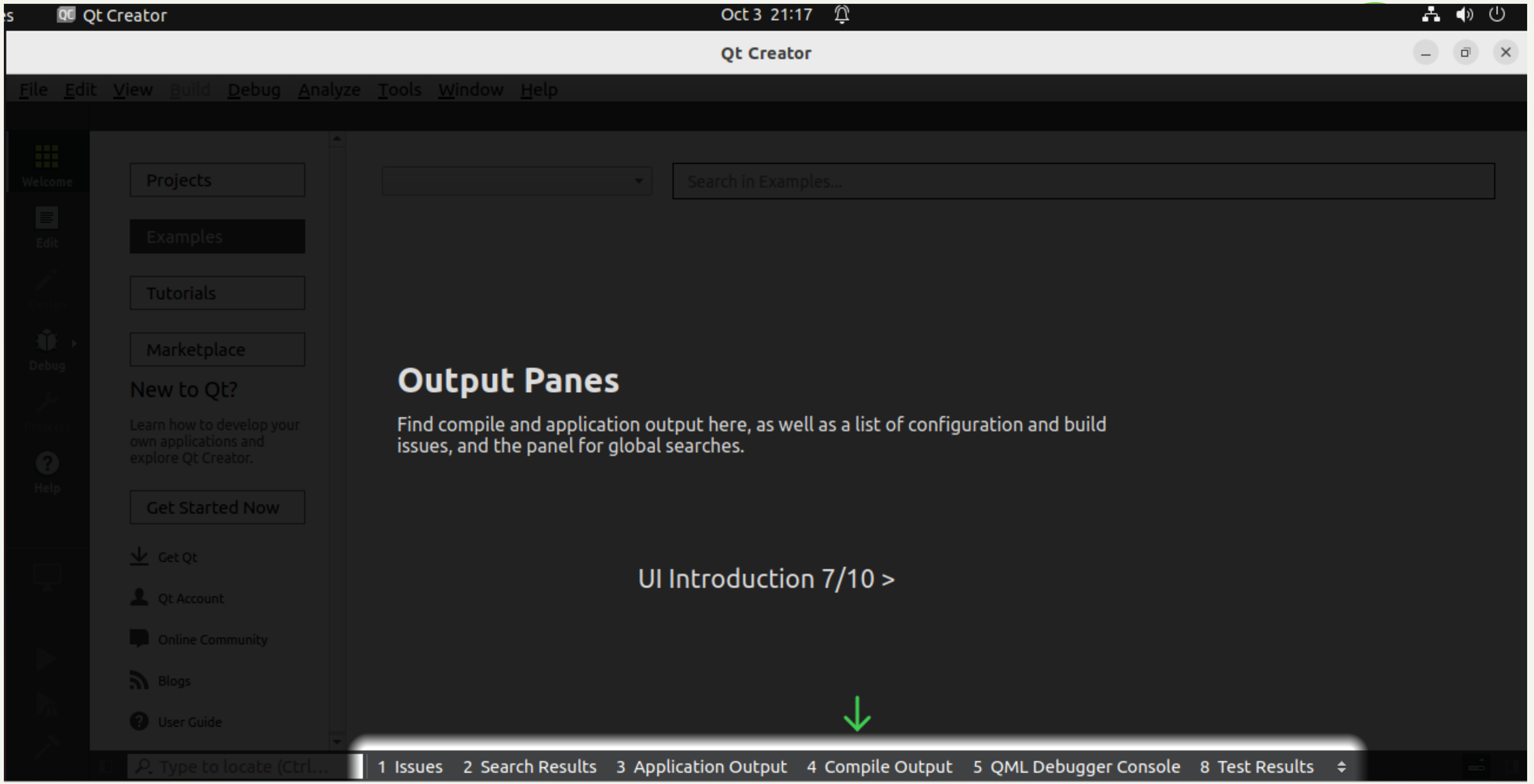
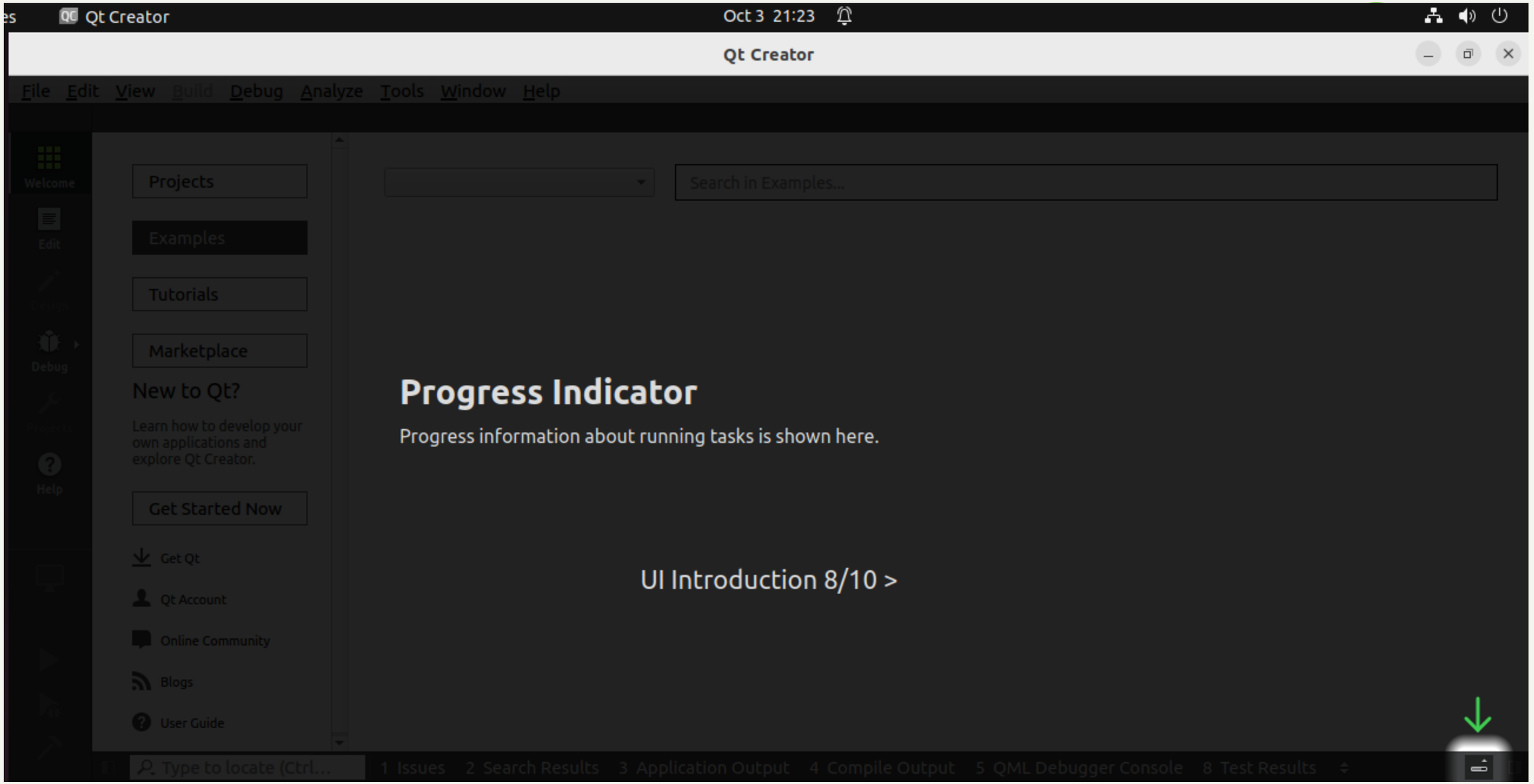
Get Started Now
Get Qt
Qt Account
Online Community
Blogs
User Guide
Search in Examples...
Locator
Type here to open a file from any open project.
Or:
• type c<space><pattern> to jump to a class definition
• type f<space><pattern> to open a file from the file system
• click on the magnifier icon for a complete list of possible options
UI Introduction 6/10 >
Type to locate (Ctrl...
1 Issues
2 Search Results
3 Application Output
4 Compile Output
5 QML Debugger Console
8 Test Results

Output Panes



Progress Indicator



Налаштування для створення проектів на Python

```
osboxes@osboxes:~$ sudo apt install python3-pip
[sudo] password for osboxes:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  javascript-common libexpat1-dev libjs-jquery libjs-sphinxdoc
  libjs-underscore libpython3-dev libpython3-stdlib libpython3.10
  libpython3.10-dev libpython3.10-minimal libpython3.10-stdlib
  python3 python3-dev python3-distutils python3-lib2to3
  python3-minimal python3-setuptools python3-wheel python3.10
  python3.10-dev python3.10-minimal zlib1g zlib1g-dev
Suggested packages:
  apache2 | lighttpd | httpd python3-doc python3-tk python3-venv
  python-setuptools-doc python3.10-venv python3.10-doc
The following NEW packages will be installed:
  javascript-common libexpat1-dev libjs-jquery libjs-sphinxdoc
  libjs-underscore libpython3-dev libpython3.10-dev python3-dev
  python3-distutils python3-pip python3-setuptools python3-wheel
  python3.10-dev zlib1g-dev
The following packages will be upgraded:
```

```
osboxes@osboxes:~$ pip3 install pyside6
Defaulting to user installation because normal site-packages is not wr
iteable
Collecting pyside6
  Downloading PySide6-6.3.2-cp36-abi3-manylinux_2_28_x86_64.whl (65 kB
)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 65.6/65.6 KB 1.5 MB/s eta 0:00:00
Collecting PySide6-Essentials==6.3.2
  Downloading PySide6_Essentials-6.3.2-cp36-abi3-manylinux_2_28_x86_64
.whl (76.3 MB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 21.1/76.3 MB 3.5 MB/s eta 0:00:16
```

```
Successfully installed PySide6-Addons-6.3.2 PySide6-Essentials-6.3.2 p
yside6-6.3.2 shiboken6-6.3.2
```

Створення перших проектів

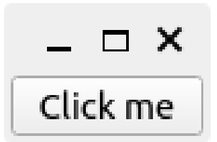
```python
# This Python file uses the following encoding: utf-8
import sys
from PySide6.QtWidgets import QApplication, QLabel

app = QApplication(sys.argv)
label = QLabel("Hello World!")
label.show()
app.exec()
```

Створення перших проектів

```python
# This Python file uses the following encoding: utf-8
import sys
from PySide6.QtWidgets import QApplication, QPushButton
from PySide6.QtCore import Slot
@Slot()
def say_hello():
    print("Hello World!")

app = QApplication([])
button = QPushButton("Click me")
button.clicked.connect(say_hello)
button.show()
app.exec()
```



Application Output

Filter

ome/osboxes/QT basics/HelloWorld/main.py

/home/osboxes/QT basics/HelloWorld/mair

```
22:25:43: Starting /usr/bin/python3 -u '/home/osboxes/QT basics/HelloWorld/main.py'...
Hello World!
Hello World!
Hello World!
```