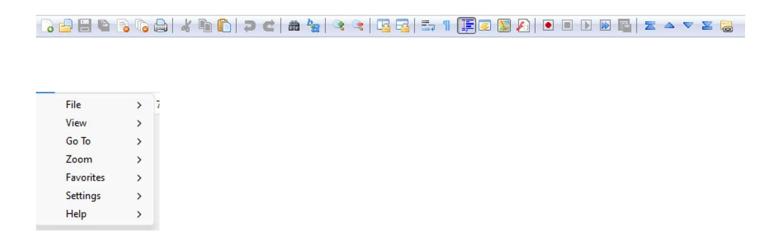
# Pemrograman Desktop 6

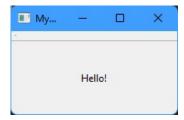
Yonathan F. Hendrawan

# Toolbars & Menu



## **Toolbars**

```
class MainWindow(QMainWindow):
  def __init__(self):
    super().__init__()
    self.setWindowTitle("My App")
    label = QLabel("Hello!")
    label.setAlignment(Qt.AlignmentFlag.AlignCenter)
    self.setCentralWidget(label)
    toolbar = QToolBar("My main toolbar")
    self.addToolBar(toolbar)
  def onMyToolBarButtonClick(self, s):
    print("click", s)
```



## **Q**Action

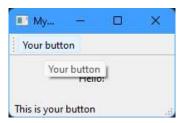
- Sebuah class untuk mendefinisikan abstract user interfaces
  - Satu object (dengan satu fungsi) dapat digunakan di banyak tempat

### **Q**Action

```
class MainWindow(QMainWindow):
  def __init__(self):
    super().__init__()
    self.setWindowTitle("My App")
    label = QLabel("Hello!")
    label.setAlignment(Qt.AlignmentFlag.AlignCenter)
    self.setCentralWidget(label)
    toolbar = QToolBar("My main toolbar")
    self.addToolBar(toolbar)
    button_action = QAction("Your button", self)
    button_action.setStatusTip("This is your button")
    button_action.triggered.connect(self.onMyToolBarButtonClick)
    toolbar.addAction(button action)
  def onMyToolBarButtonClick(self, s):
    print("click", s)
```

### Penambahan Status Bar

```
class MainWindow(QMainWindow):
  def init (self):
    super().__init__()
    self.setWindowTitle("My App")
    label = QLabel("Hello!")
    label.setAlignment(Qt.AlignmentFlag.AlignCenter)
    self.setCentralWidget(label)
    toolbar = QToolBar("My main toolbar")
    self.addToolBar(toolbar)
    button action = QAction("Your button", self)
    button action.setStatusTip("This is your button")
    button action.triggered.connect(self.onMyToolBarButtonClick)
    toolbar.addAction(button action)
    self.setStatusBar(QStatusBar(self))
  def onMyToolBarButtonClick(self, s):
    print("click", s)
```



# Toggle

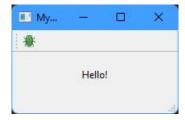
- Tulisan yang tampil di terminal selalu False
- Itu karena dia menampilkan status checked, sementara button yang ada tidak checkable, hanya clickable
- Untuk mengganti, cukup tambahkan:
  - button\_action.setCheckable(True)

#### Icon

- Umum digunakan untuk merepresentasikan sebuah tombol di toolbar
- Download icon bug.png
- Didapat dari: <a href="https://p.yusukekamiyamane.com/">https://p.yusukekamiyamane.com/</a>
- Drag-and-drop ke project folder di PyCharm

#### Icon

```
basedir = os.path.dirname(__file__)
class MainWindow(QMainWindow):
  def __init__(self):
    super().__init__()
    self.setWindowTitle("My App")
    label = QLabel("Hello!")
    label.setAlignment(Qt.AlignmentFlag.AlignCenter)
    self.setCentralWidget(label)
    toolbar = QToolBar("My main toolbar")
    toolbar.setIconSize(QSize(16, 16))
    self.addToolBar(toolbar)
    button_action = QAction( QIcon(os.path.join(basedir, "bug.png")), "Your button", self )
    button action.setStatusTip("This is your button")
    button action.triggered.connect(self.onMyToolBarButtonClick)
    button_action.setCheckable(True)
    toolbar.addAction(button_action)
    self.setStatusBar(QStatusBar(self))
```



# Multiple buttons & Checkbox

```
toolbar.addSeparator()
button_action2 = QAction(
    Qlcon(os.path.join(basedir, "bug.png")), "Your button2", self )
button_action2.setStatusTip("This is your button2")
button_action2.triggered.connect(self.onMyToolBarButtonClick)
button_action2.setCheckable(True)
toolbar.addAction(button_action2)
```

Hello!

toolbar.addWidget(QLabel("Hello")) toolbar.addWidget(QCheckBox())

self.setStatusBar(QStatusBar(self))

### Menu

```
menu = self.menuBar()
```

file\_menu = menu.addMenu("&File")
file\_menu.addAction(button\_action)

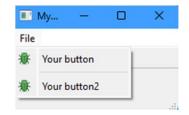




# Menu Separator

menu = self.menuBar()

file\_menu = menu.addMenu("&File")
file\_menu.addAction(button\_action)
file\_menu.addSeparator()
file\_menu.addAction(button\_action2)



### Sub menu

```
menu = self.menuBar()
```

```
file_menu = menu.addMenu("&File")
file_menu.addAction(button_action)
file_menu.addSeparator()
```



```
file_submenu = file_menu.addMenu("Submenu")
file_submenu.addAction(button_action2)
```

# UTS