A large red square with a thin white border, centered on a white background. Inside the square, the text "Introduction to Qt/QML (GUI)" is written in white.

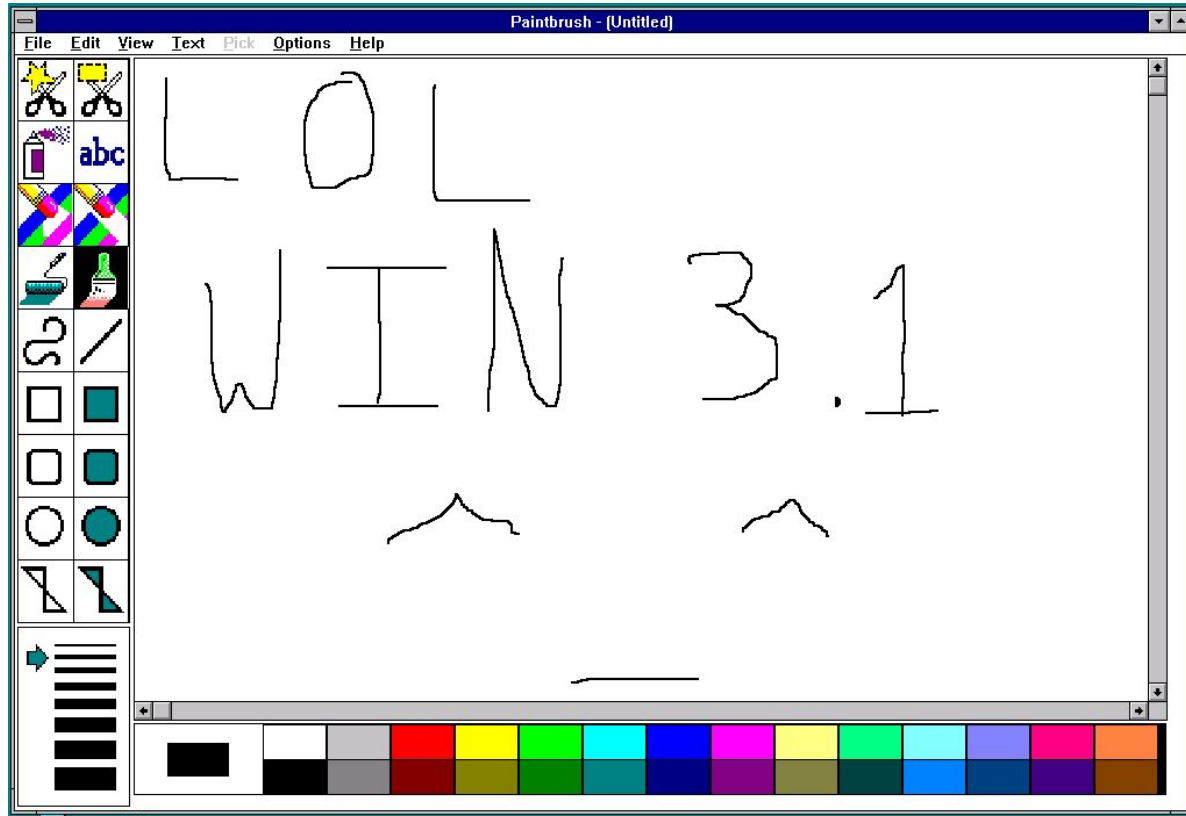
# Introduction to Qt/QML (GUI)

# What is GUI (Graphical User Interface)?



A Traditional Perspective

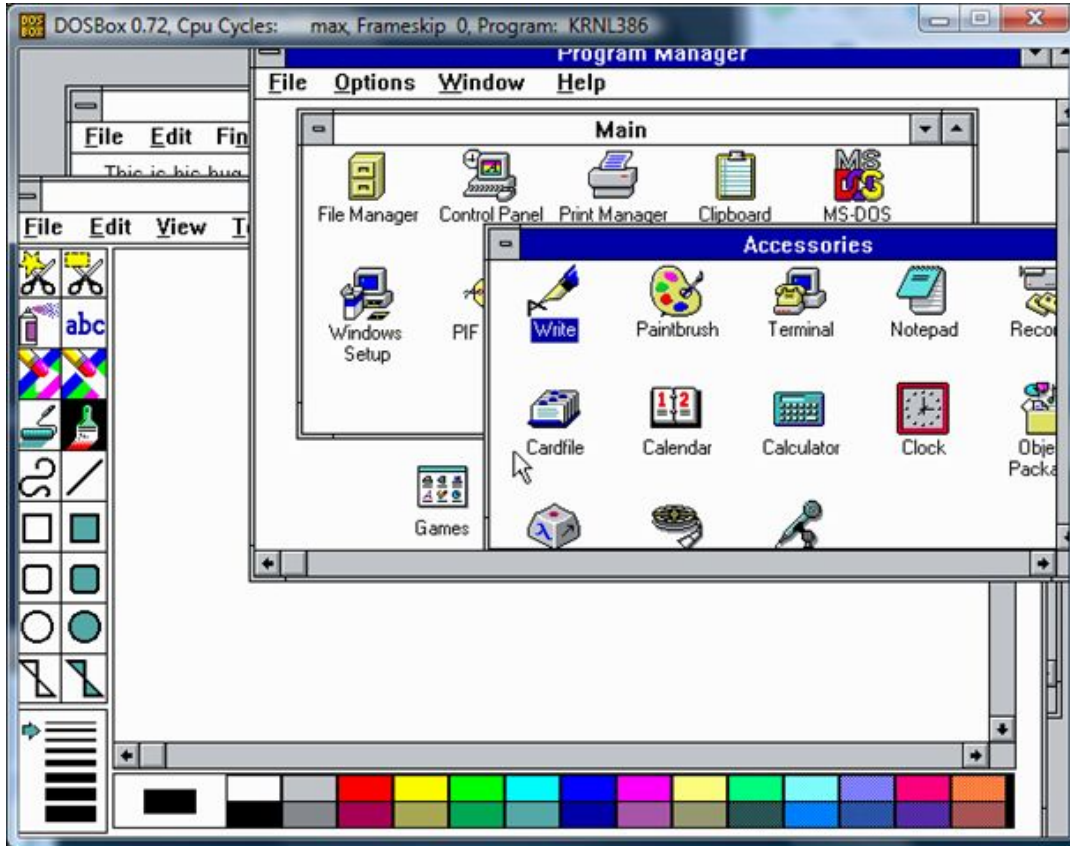
# What is GUI (Graphical User Interface)?



Layers (Top-Down)

Application

# What is GUI (Graphical User Interface)?

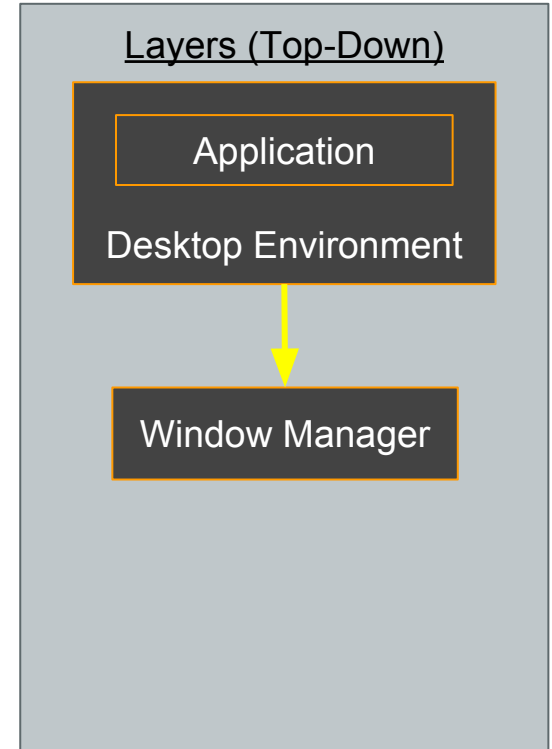
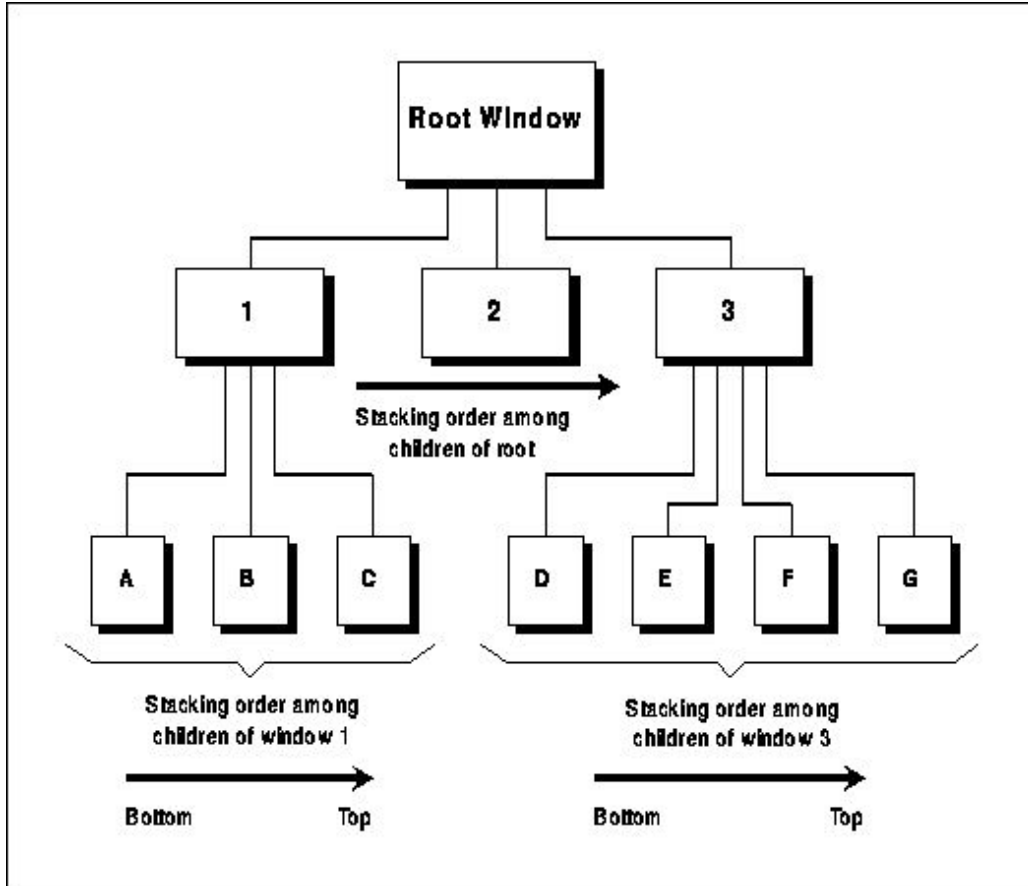


Layers (Top-Down)

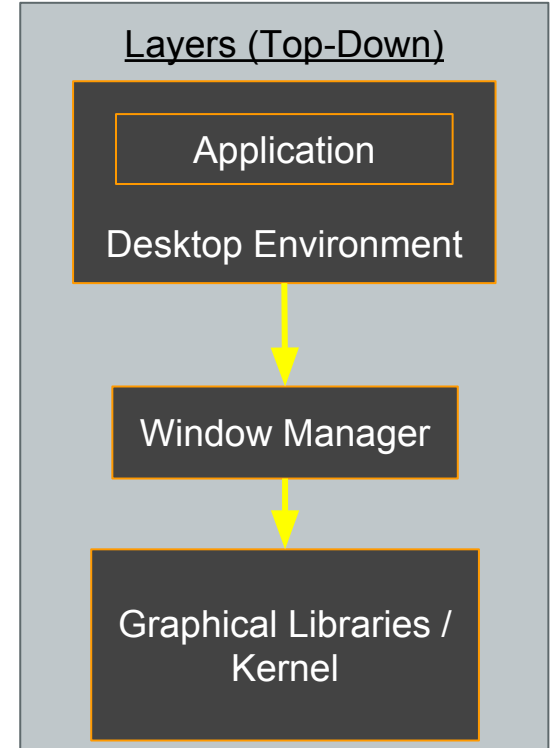
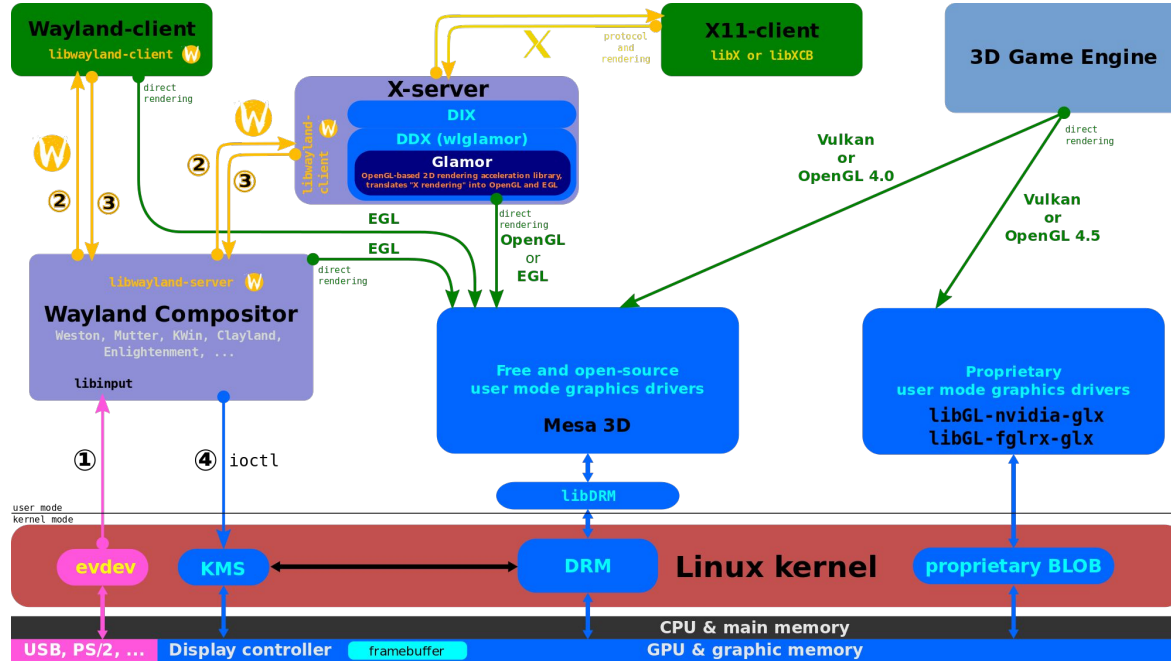
Application

Desktop Environment

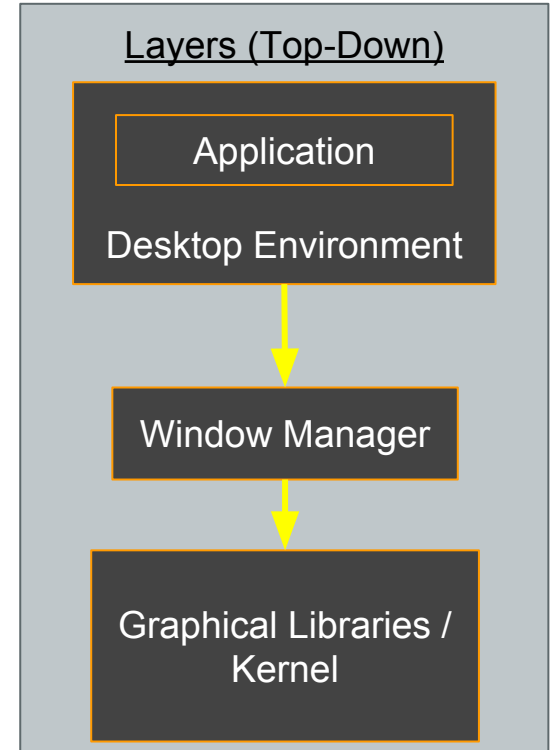
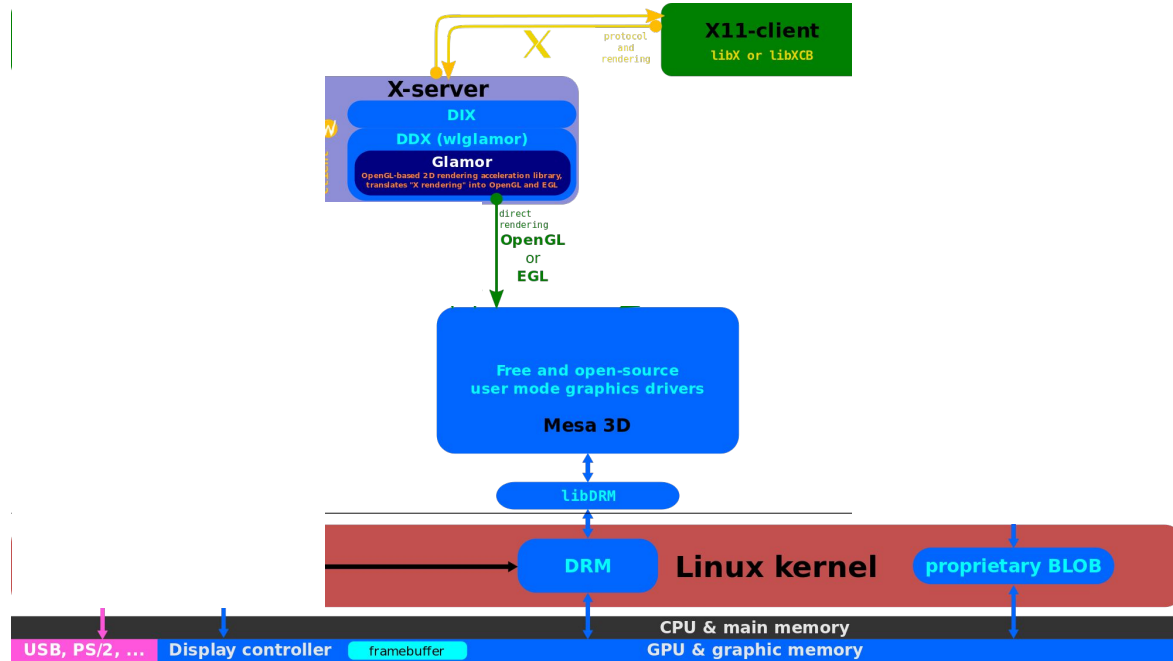
# What is GUI (Graphical User Interface)?



# What is GUI (Graphical User Interface)?



# What is GUI (Graphical User Interface)?



# What is GUI (Graphical User Interface)?

Seems easy enough -  
What is so hard about GUI?

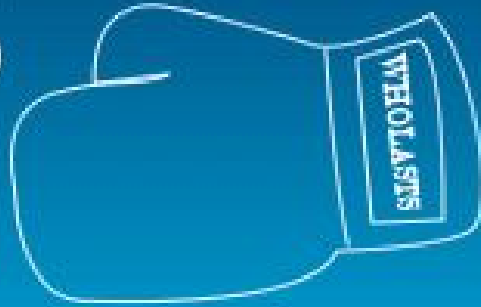


# What is GUI (Graphical User Interface)?

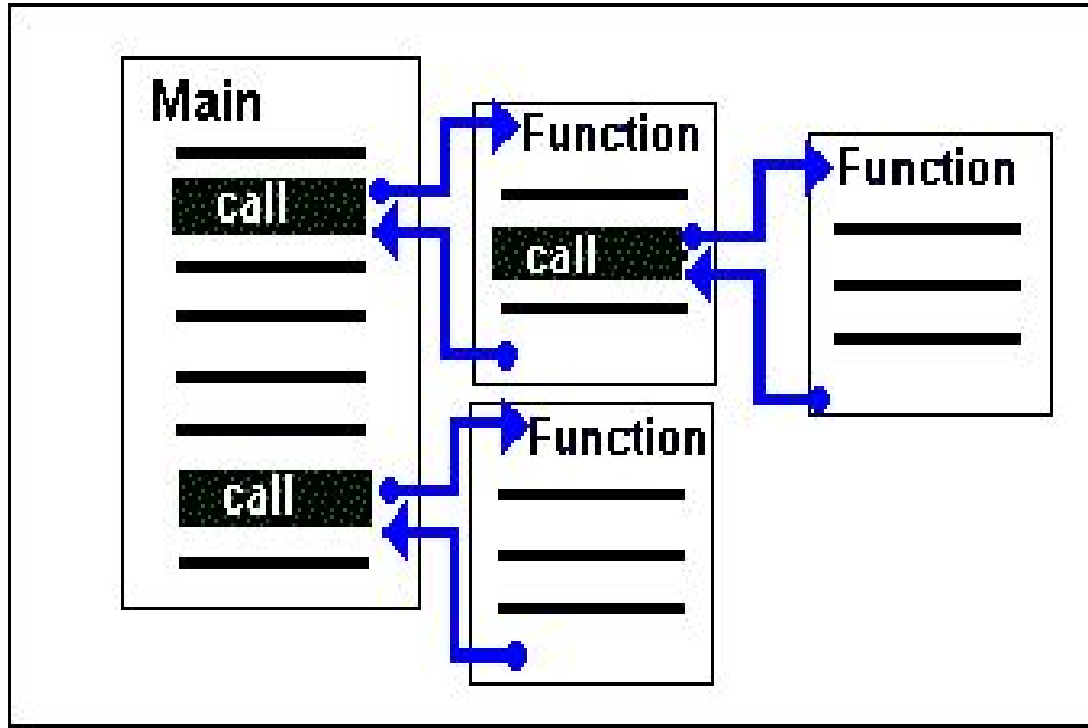
Procedural  
Programming

Event-Driven

VS

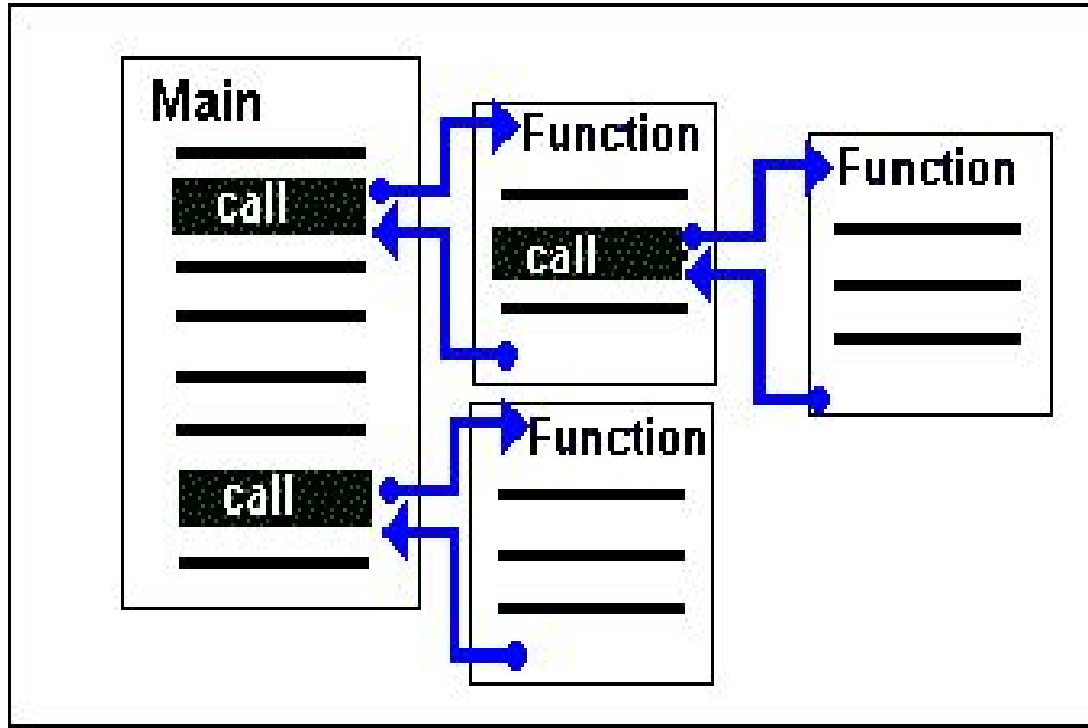


# Procedural Programming



Pseudo Code

# Procedural Programming

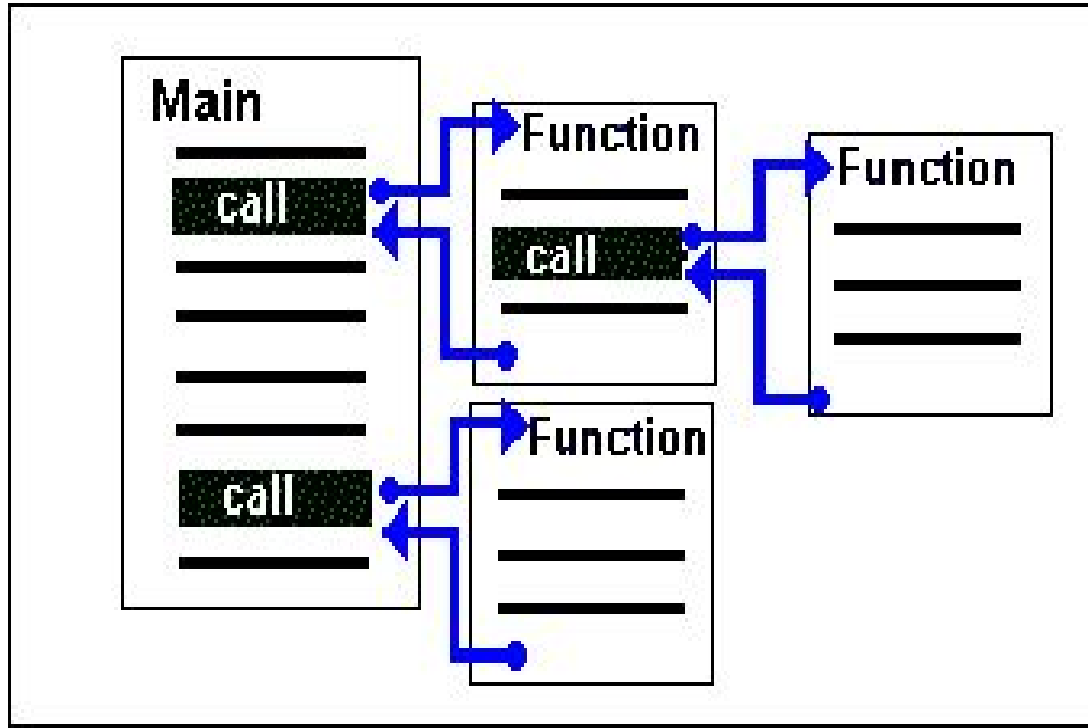


## Pseudo Code (Guess Age)

Output: "What is your name?"

Input: ***UserName***

# Procedural Programming



## Pseudo Code (Guess Age)

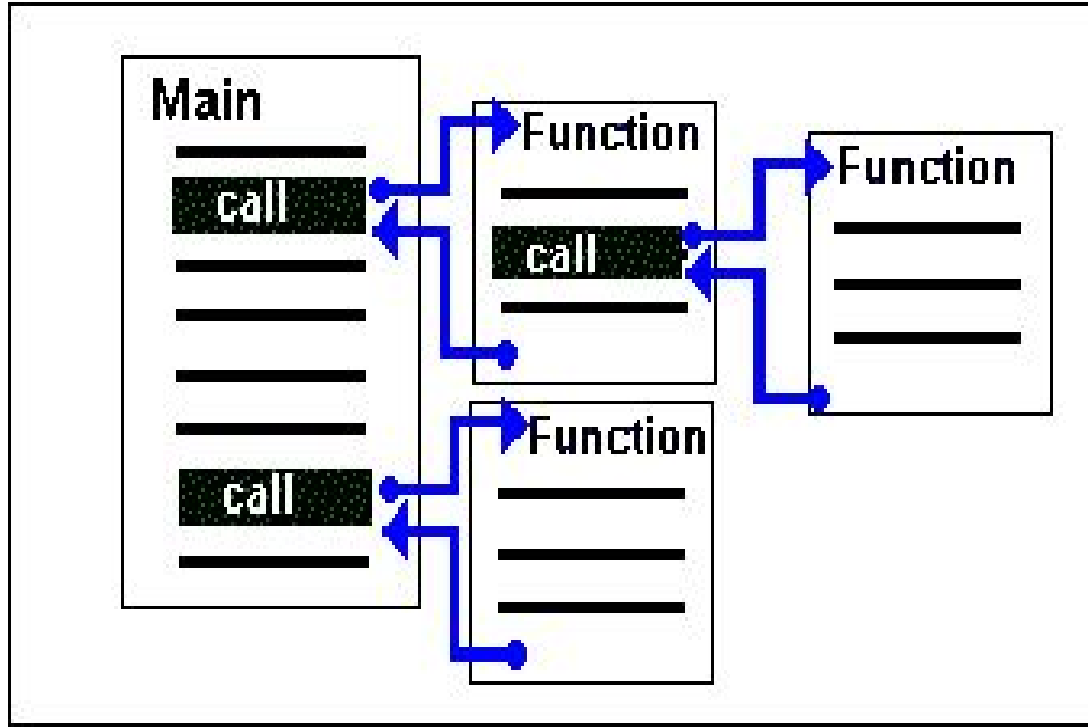
Output: "What is your name?"

Input: ***UserName***

Output: "What is your current Age?"

Input: ***UserAge***

# Procedural Programming



## Pseudo Code (Guess Age)

Output: "What is your name?"

Input: ***UserName***

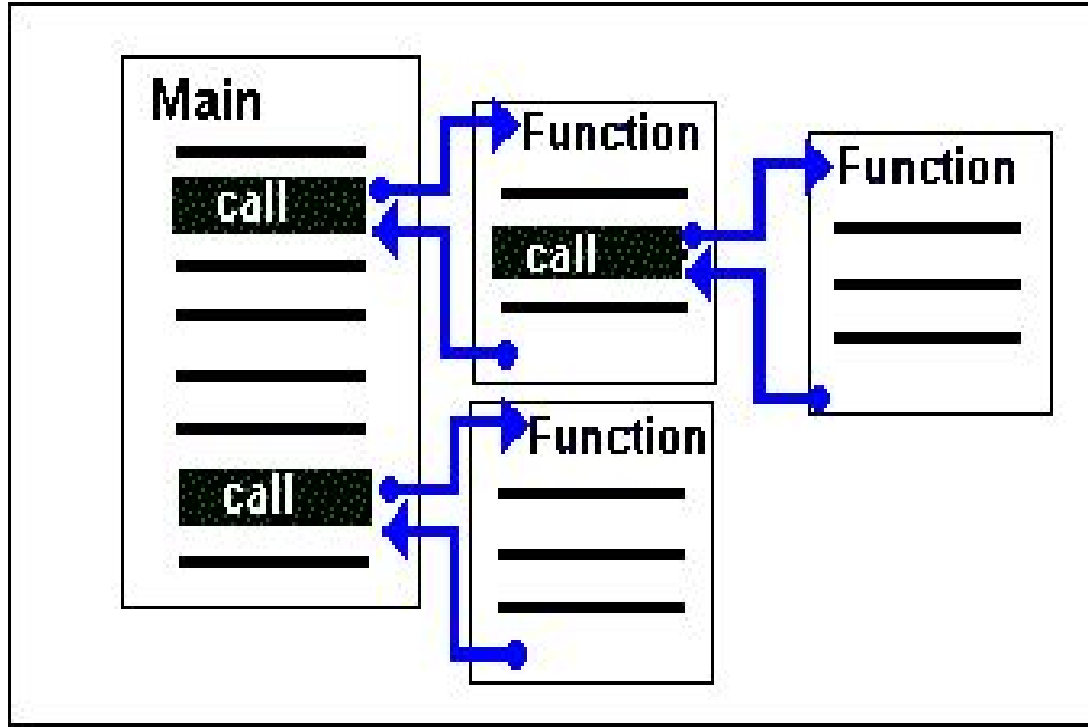
Output: "What is your current Age?"

Input: ***UserAge***

Output: "How many years to add?"

Input: ***YearsPassed***

# Procedural Programming



## Pseudo Code (Guess Age)

Output: "What is your name?"

Input: ***UserName***

Output: "What is your current Age?"

Input: ***UserAge***

Output: "How many years to add?"

Input: ***YearsPassed***

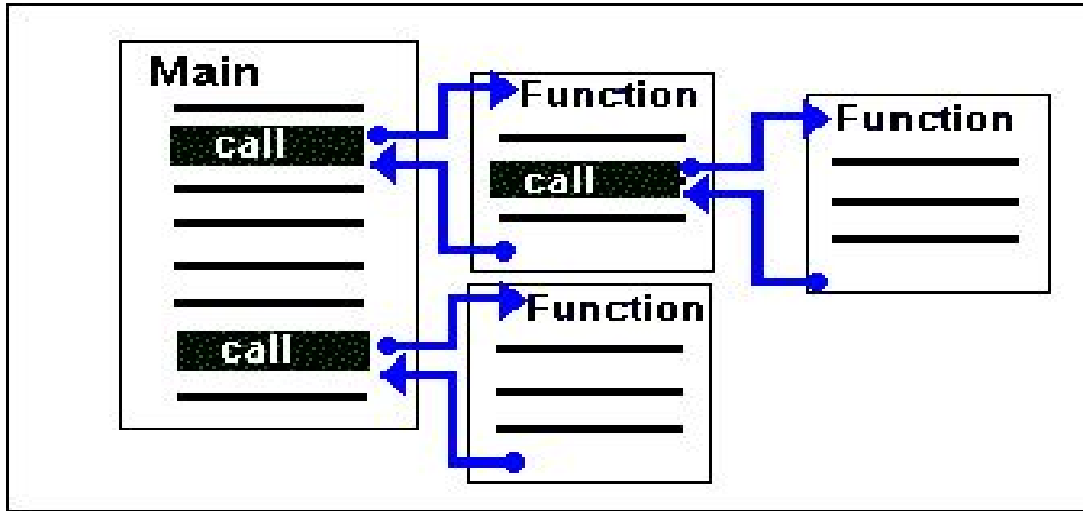
If ***YearsPassed + UserAge*** >= 24

Output: "You will be OLD!"

Else

Output: "You will be " (UserAge + YearsPassed)

# Procedural Programming



You used to run the  
show!

## Pseudo Code (Guess Age)

Output: "What is your name?"

Input: ***UserName***

Output: "What is your current Age?"

Input: ***UserAge***

Output: "How many years to add?"

Input: ***YearsPassed***

If ***YearsPassed + UserAge***  $\geq$  24

Output: "You will be OLD!"





Else


Output: "You will be " (UserAge + YearsPassed)

# Event-Driven

**Sign Up in Seconds!**




Signup using your Email address

 Your Name	 Email id
 Password	 Confirm Password

[Create my Account](#) 

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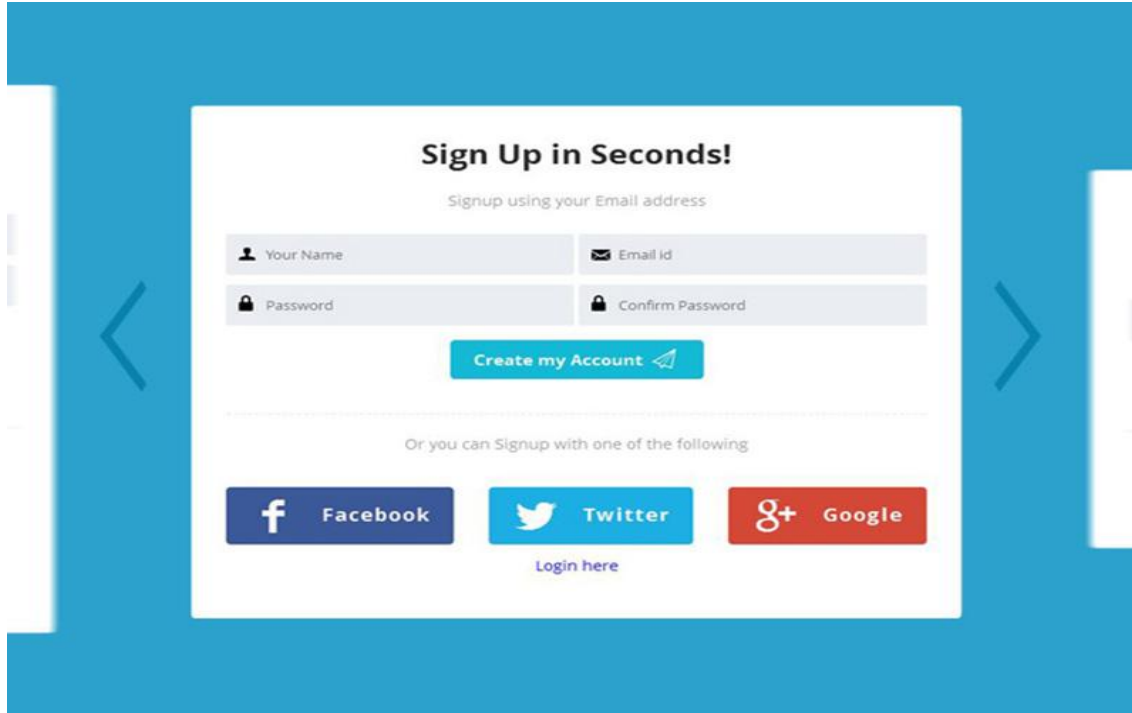
Or you can Signup with one of the following

 Facebook	 Twitter	 Google
--	---	--

[Login here](#)








# Event-Driven



**Sign Up in Seconds!**




Signup using your Email address

 Your Name	 Email Id
 Password	 Confirm Password

[Create my Account](#) 

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Or you can Signup with one of the following

 Facebook	 Twitter	 Google
--	---	--

[Login here](#)

Now you run Damage Control during the chaos!

# Let's get started

Today we will see:

Design **VS** Development - “**You are a developer**”

Live Coding Demo -

Base QML class - “***Item***”

Base Visual Object - “**Rectangle**”

Basic Visual Objects - “**Text** and **Image**”

And Basic Properties - “**id, color, name, font**”