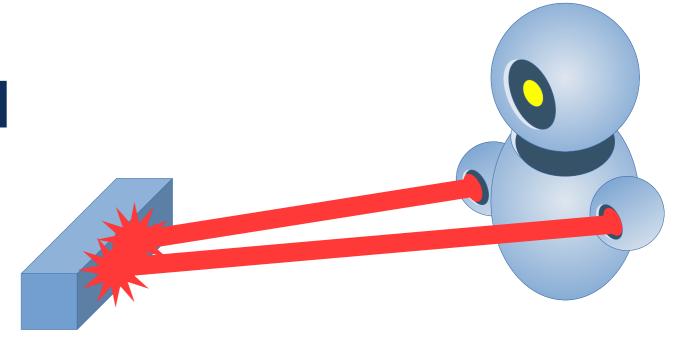
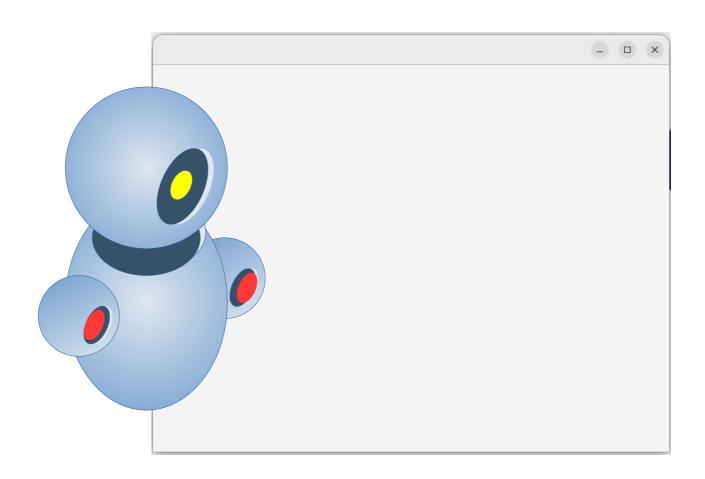
THE CHON GAME IN JAVA



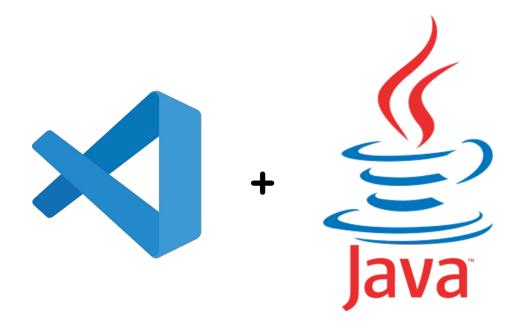
MY FIRST JAVA FX APPLICATION

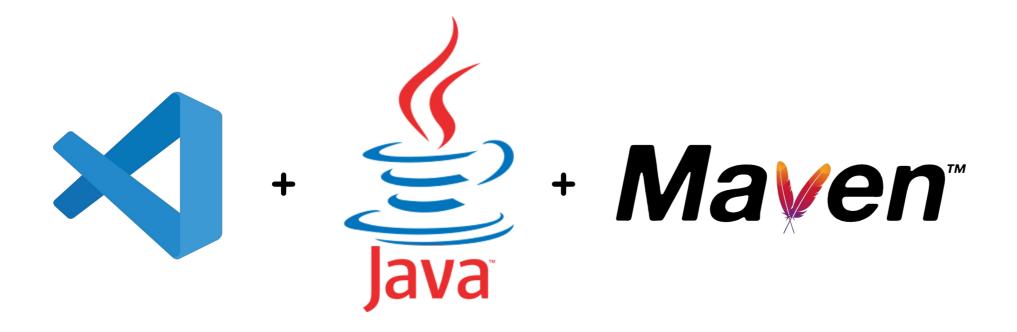


Java FX

JavaFX is a comprehensive software platform for creating and programming client and crossplatform desktop applications.

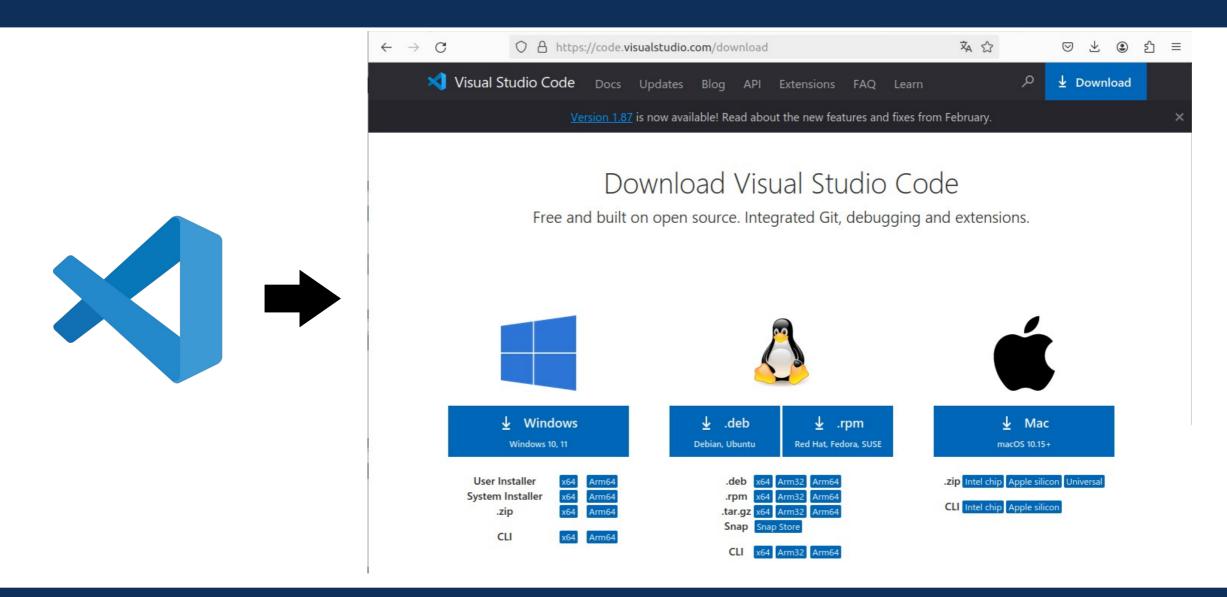


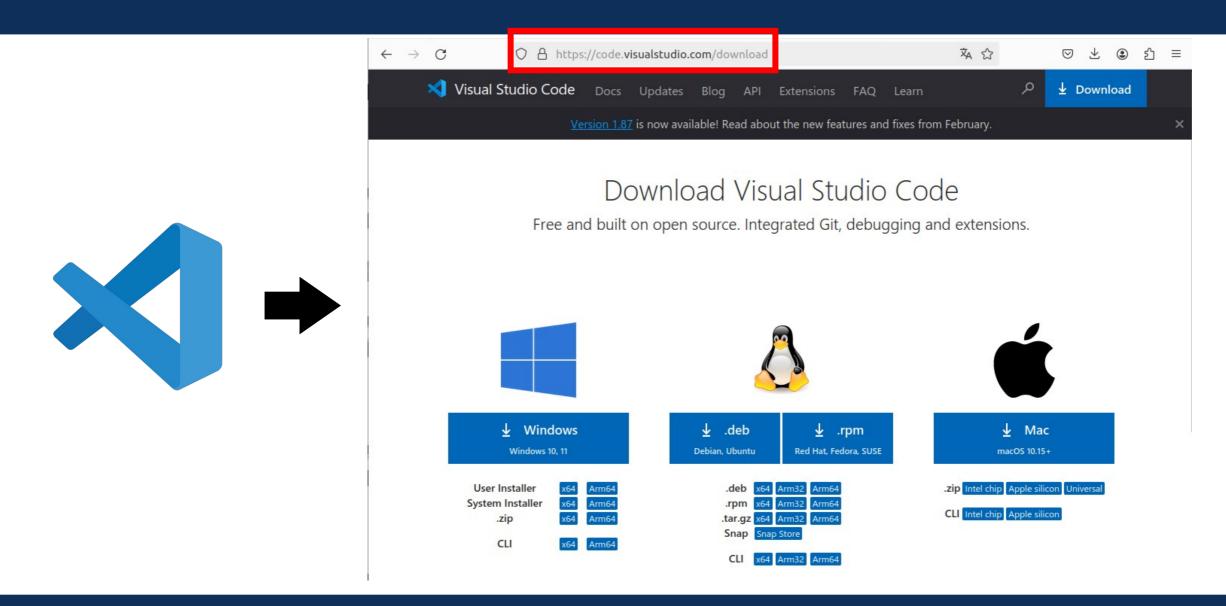


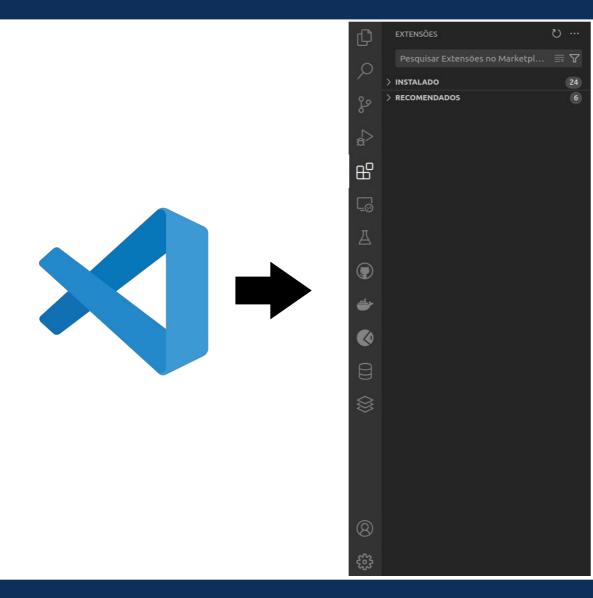


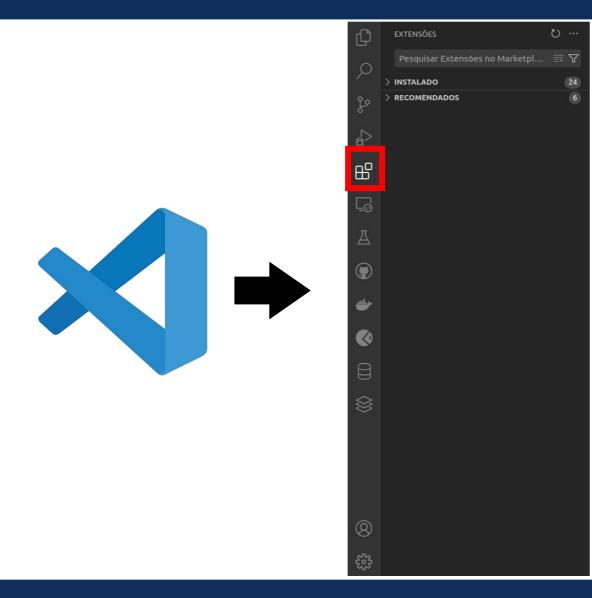


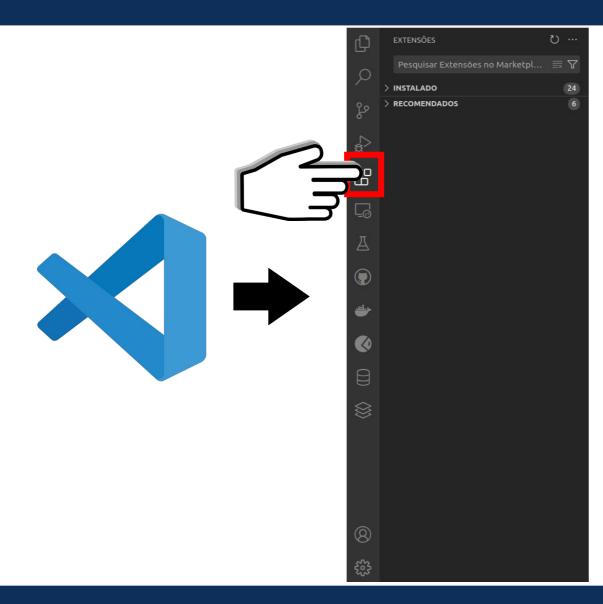


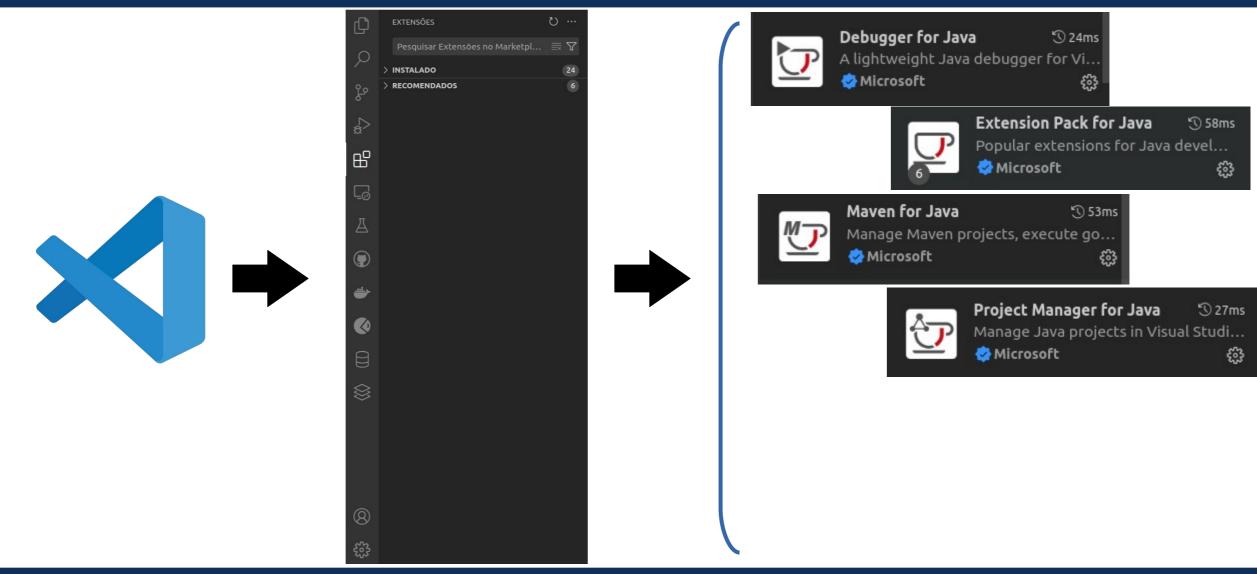


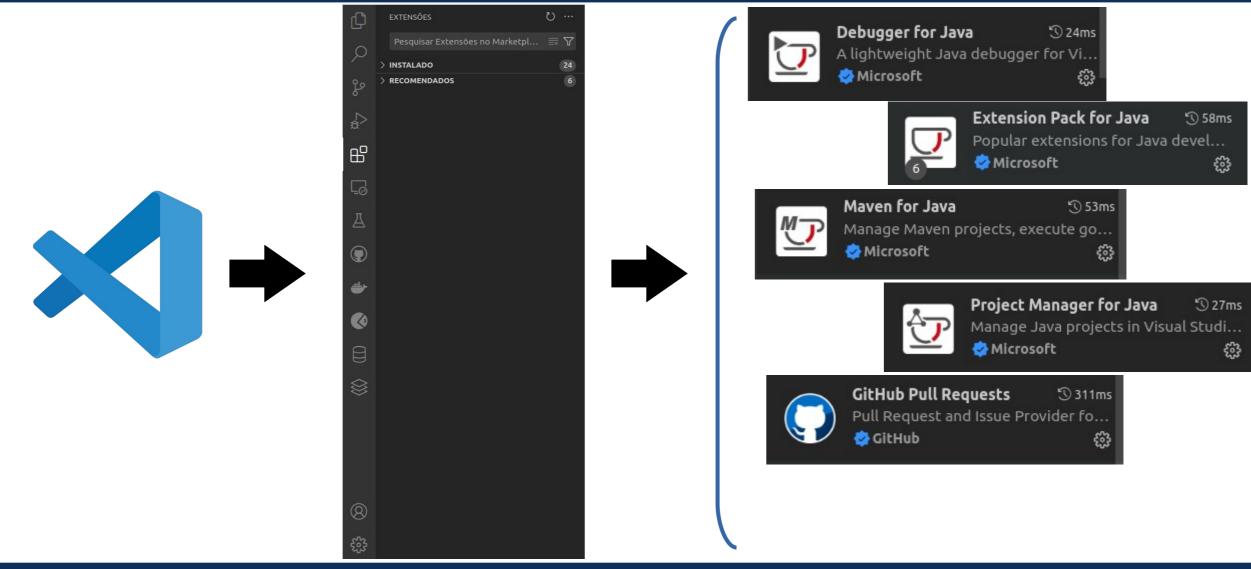


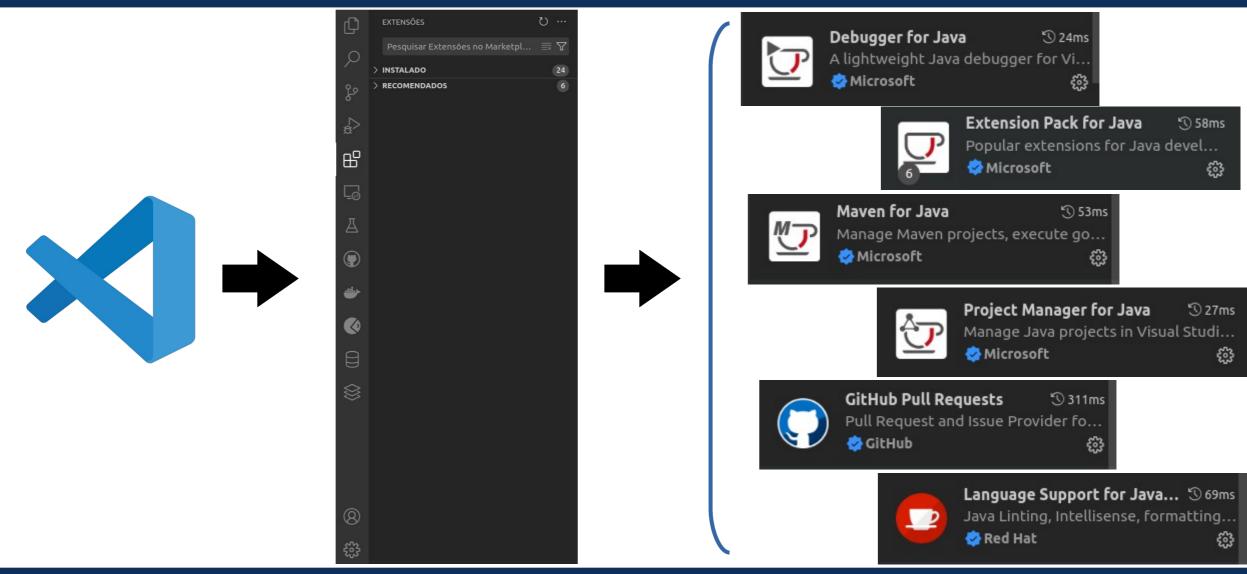


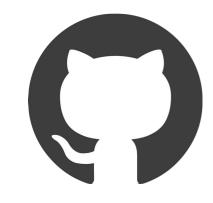


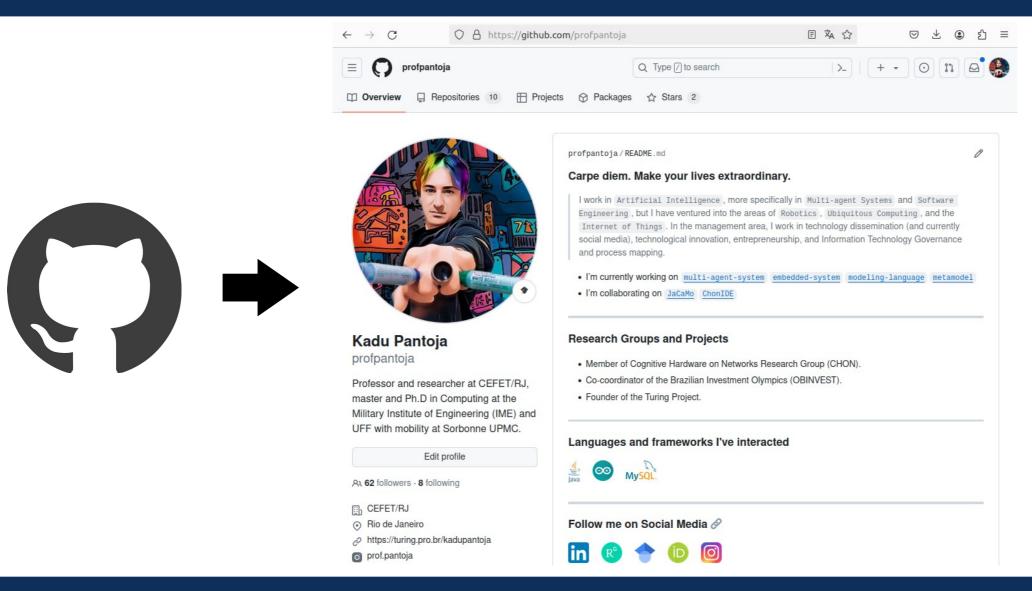


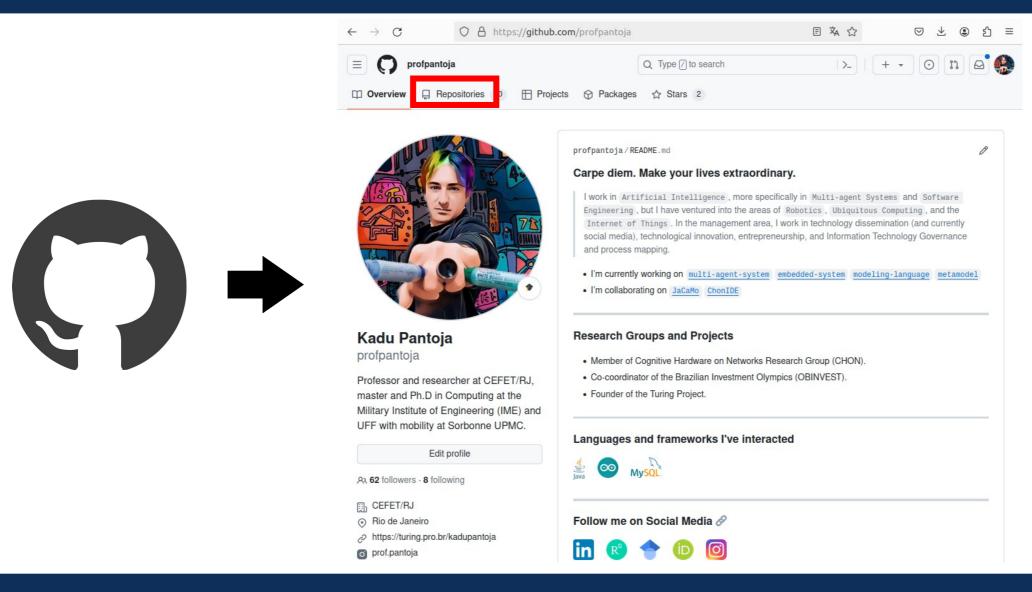


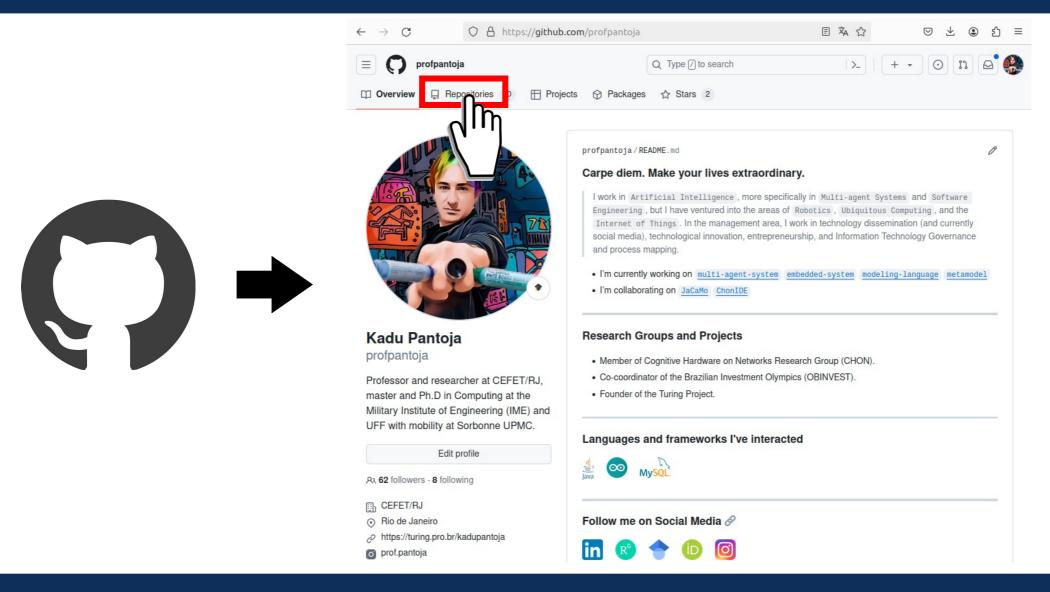


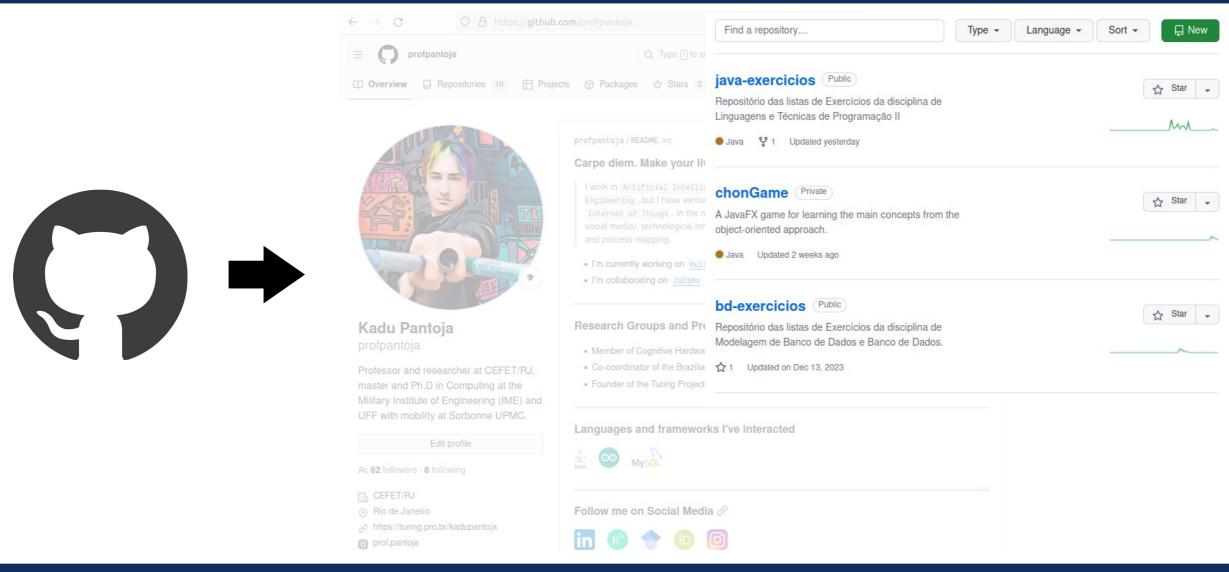


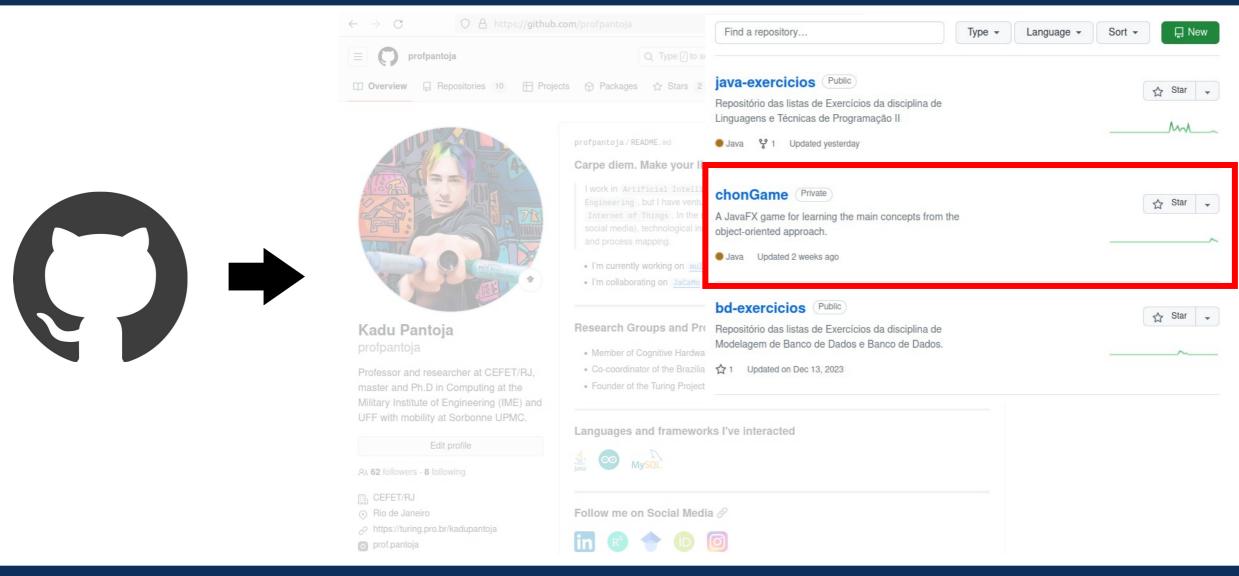




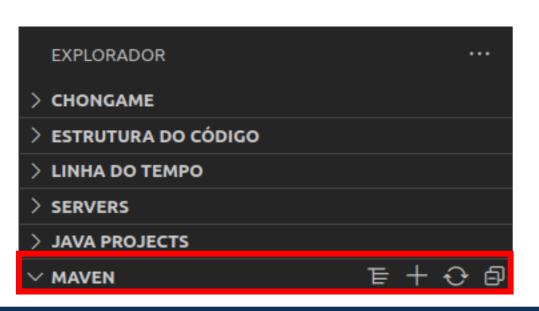




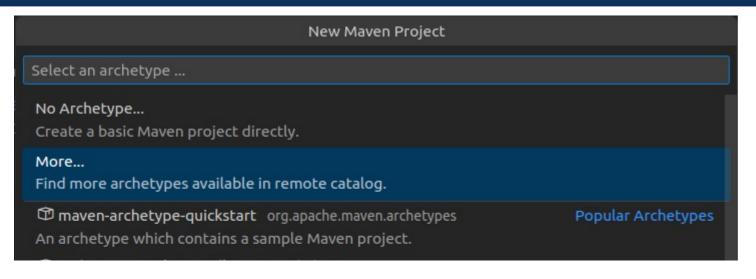






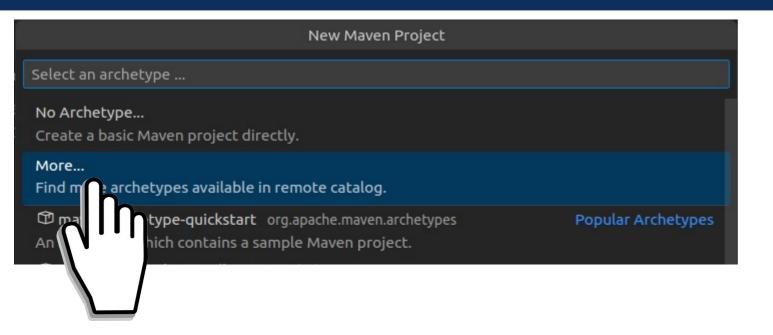


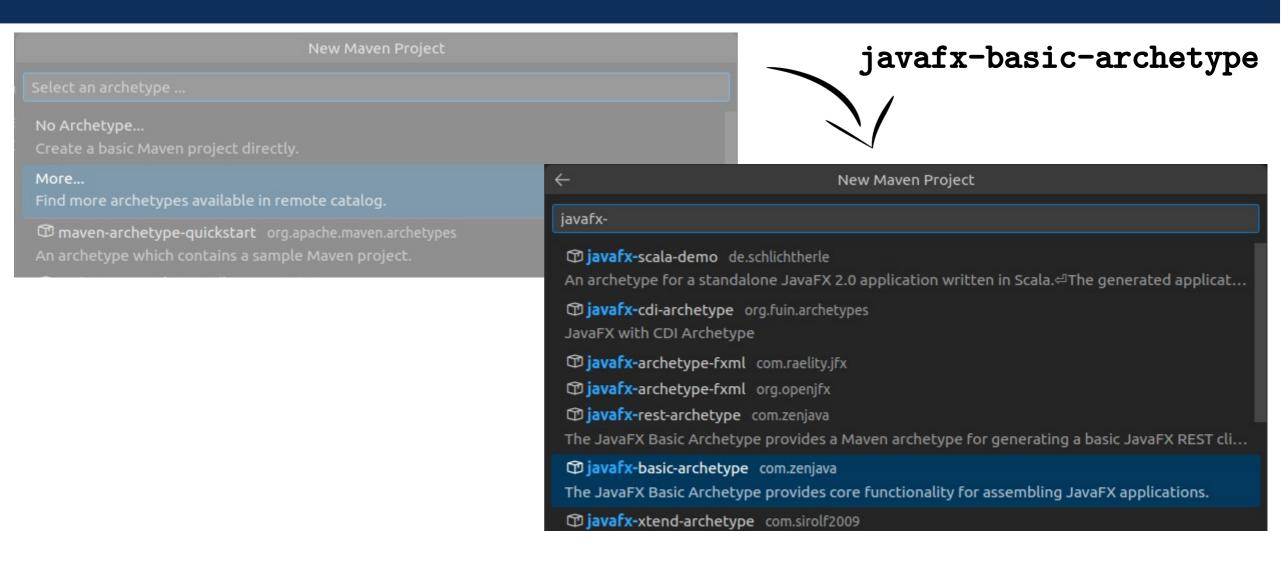


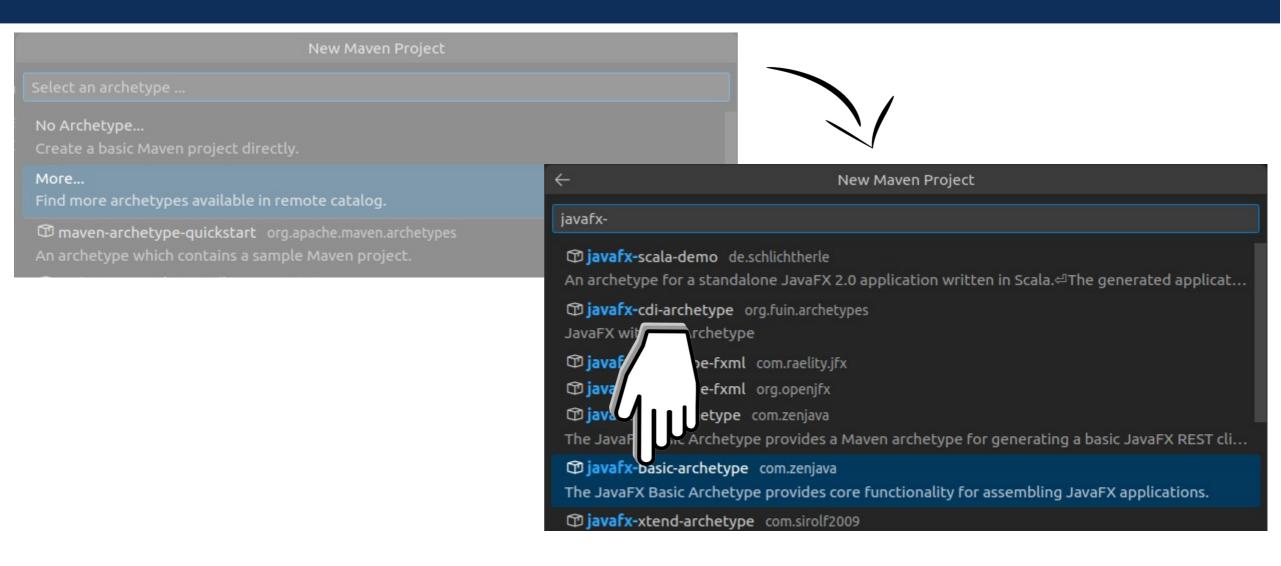


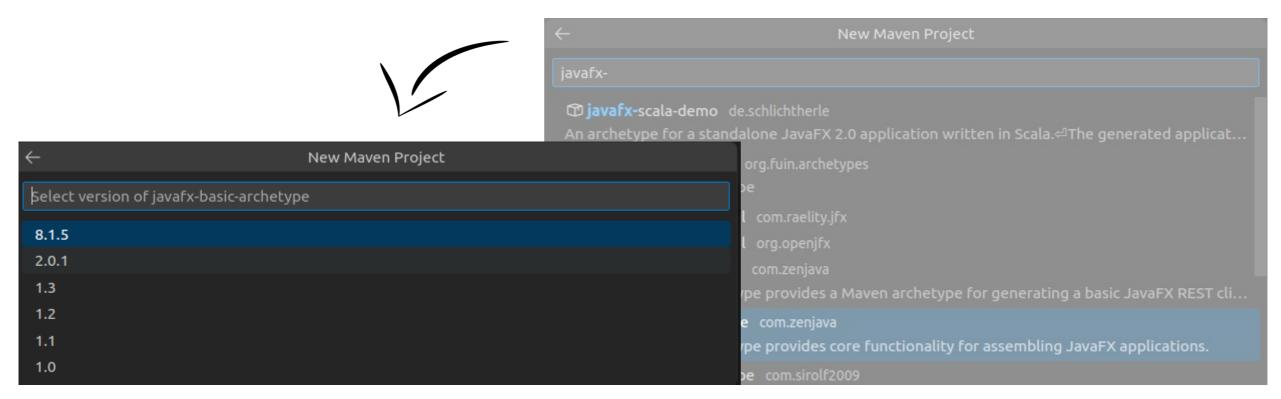


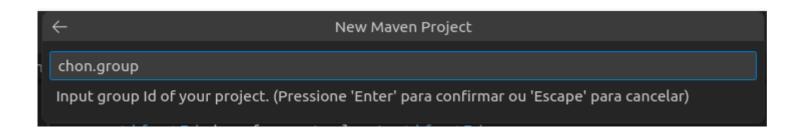






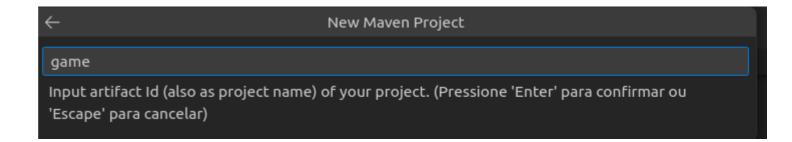








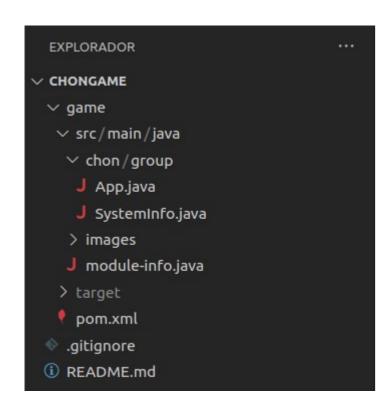




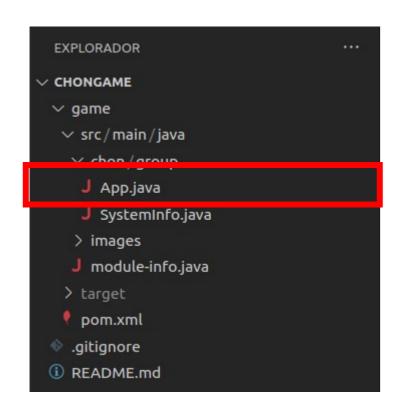
```
* Executando tarefa: mvn org.apache.maven.plugins:maven-archetype-plugin:3.1.2:generate -DarchetypeArtifactId="javafx-basi
c-archetype" -DarchetypeGroupId="com.zenjava" -DarchetypeVersion="8.1.5" -DgroupId="chon.group" -DartifactId="game"
[INFO] Scanning for projects...
[INFO]
[INFO]
      ------chon.group:game >------
[INFO] Building game 1
      -----[ jar ]-----
[INFO]
[INFO]
[INFO] >>> maven-archetype-plugin:3.1.2:generate (default-cli) > generate-sources @ game >>>
[INFO]
[INFO] <<< mayon-archetype-plugin:3.1.2:generate (default-cli) < generate-sources @ game <<<
[INFO]
[INFO]
[INFO] --- maven-archetype-plugin:3.1.2:generate (default-cli) @ game ---
[INFO] Generating project in Interactive mode
[INFO] Archetype repository not defined. Using the one from [com.zenjava:javafx-basic-archetype:8.1.5] found in catalog remo
Downloading from central: https://repo.maven.apache.org/maven2/com/zenjava/javafx-basic-archetype/8.1.5/javafx-basic-archety
pe-8.1.5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/com/zenjava/javafx-basic-archetype/8.1.5/javafx-basic-archetype
e-8.1.5.pom (6.2 kB at 17 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/zenjava/javafx-basic-archetype/8.1.5/javafx-basic-archety
pe-8.1.5.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/zenjava/javafx-basic-archetype/8.1.5/javafx-basic-archetype
e-8.1.5.jar (145 kB at 188 kB/s)
[INFO] Using property: groupId = chon.group
[INFO] Using property: artifactId = game
Define value for property 'version' 1.0-SNAPSHOT: :
```

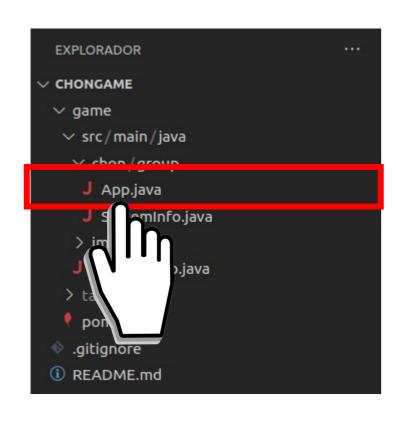
```
* Executando tarefa: mvn org.apache.maven.plugins:maven-archetype-plugin:3.1.2:generate -DarchetypeArtifactId="javafx-basi
c-archetype" -DarchetypeGroupId="com.zenjava" -DarchetypeVersion="8.1.5" -DgroupId="chon.group" -DartifactId="game"
[INFO] Scanning for projects...
[INFO]
[INFO] ------ chon.group:game >-----
[INFO]
      Building game 1
[INFO]
[INFO]
[INFO] >>> maven-archetype-plugin:3.1.2:generate (default-cli) > generate-sources @ game >>>
[INFO]
[INFO] <<< mayen-archetype-plugin:3.1.2:generate (default-cli) < generate-sources @ game <<<
[INFO]
[INFO]
[INFO] --- maven-archetype-plugin:3.1.2:generate (default-cli) @ game ---
[INFO] Generating project in Interactive mode
[INFO] Archetype repository not defined. Using the one from [com.zenjava:javafx-basic-archetype:8.1.5] found in catalog remo
Downloading from central: https://repo.maven.apache.org/maven2/com/zenjava/javafx-basi
                                                                                  [INFO] Using property: groupId = chon.group
                                                                                 [INFO] Using property: artifactId = game
Downloaded from central: https://repo.maven.apache.org/maven2/com/zenjava/javafx-basic-
                                                                                 Define value for property 'version' 1.0-SNAPSHOT: : 1
e-8.1.5.pom (6.2 kB at 17 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/zenjava/javafx-basic [INFO] Using property: package = chon.group
                                                                                 Define value for property 'organizationName': chon
Downloaded from central: https://repo.maven.apache.org/maven2/com/zenjava/javafx-basic
                                                                                 Confirm properties configuration:
e-8.1.5.jar (145 kB at 188 kB/s)
                                                                                 groupId: chon.group
[INFO] Using property: artifactId = game
                                                                                 artifactId: game
Define value for property 'version' 1.0-SNAPSHOT: :
                                                                                  version: 1
                                                                                  package: chon.group
                                                                                 organizationName: chon
                                                                                   Y: : Y
```

Java FX App Running



Java FX App Running







```
J App.java M X
game > src > main > java > chon > group > J App.java > ♦ App > ♦ start(Stage)
      package chon.group;
      import javafx.application.Application;
      import javafx.scene.Scene;
      import javafx.scene.control.Label;
      import javafx.scene.layout.StackPane;
      import javafx.stage.Stage;
       * JavaFX App
      public class App extends Application {
 13
          @Override
          public void start(Stage stage) {
              var javaVersion = SystemInfo.javaVersion();
 17
              var javafxVersion = SystemInfo.javafxVersion();
              var label = new Label("Hello, JavaFX " + javafxVersion + ", running on Java " + javaVersion + ".");
              var scene = new Scene(new StackPane(label), width:640, height:480);
              stage.setScene(scene);
              stage.show();
          public static void main(String[] args) {
               launch():
```



```
J App.java M X
game > src > main > java > chon > group > J App.java > ♦ App > ♦ start(Stage)
      package chon.group;
      import javafx.application.Application;
      import javafx.scene.Scene;
      import javafx.scene.control.Label;
      import javafx.scene.layout.StackPane;
      import javafx.stage.Stage;
       * JavaFX App
      public class App extends Application {
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          @Override
          public void start(Stage stage) {
               var javaVersion = SystemInfo.javaVersion();
 17
               var javafxVersion = SystemInfo.javafxVersion();
               var label = new Label("Hello, JavaFX " + javafxVersion + ", running on Java " + javaVersion + ".");
               var scene = new Scene(new StackPane(label), width:640, height:480);
               stage.setScene(scene);
               stage.show();
         Run|Debug
public static void main(String[] args) {
               launch();
```



```
J App.java M X
game > src > main > java > chon > group > J App.java > ♦ App > ♦ start(Stage)
      package chon.group;
      import javafx.application.Application;
      import javafx.scene.Scene;
      import javafx.scene.control.Label;
      import javafx.scene.layout.StackPane;
      import javafx.stage.Stage;
       * JavaFX App
      public class App extends Application {
 13
          @Override
           public void start(Stage stage) {
                   javaVersion = SystemInfo.javaVersion();
 17
                   javafxVersion = SystemInfo.javafxVersion();
                    abel = new Label("Hello, JavaFX " + javafxVersion + ", running on Java " + javaVersion + ".");
                    cene = new Scene(new StackPane(label), width:640, height:480);
                     setScene(scene);
                     show();
 23
         Run|Debug
public static void main(String[] args) {
               launch();
```



MANIPULATING GRAPHICAL ELEMENTS



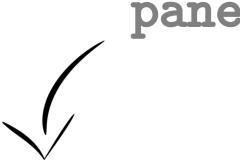
StackPane



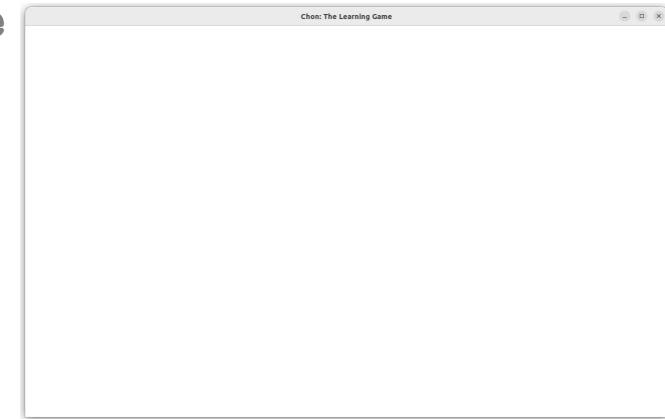
StackPane



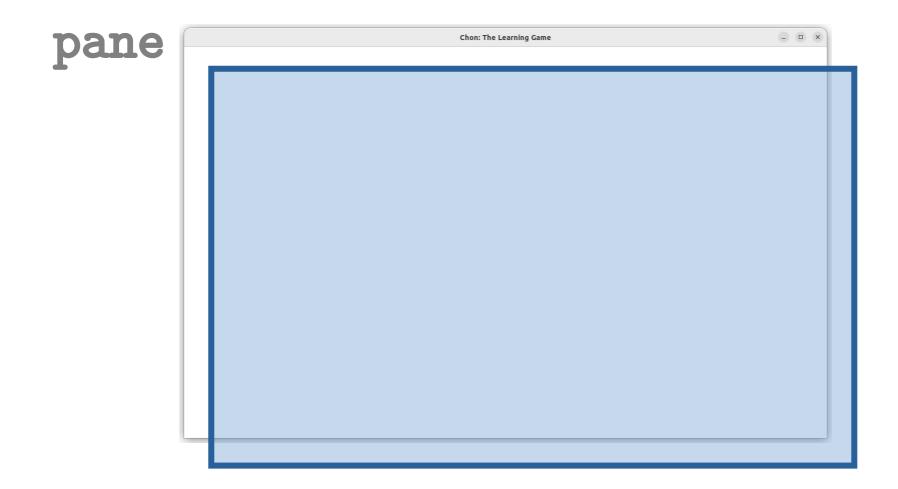
StackPane



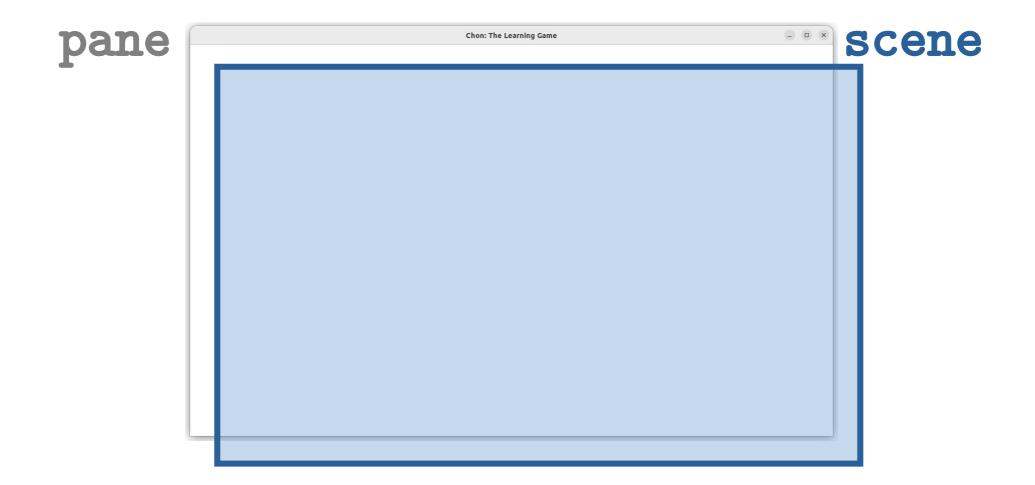
The window
that is
currently
displayed on
the screen.



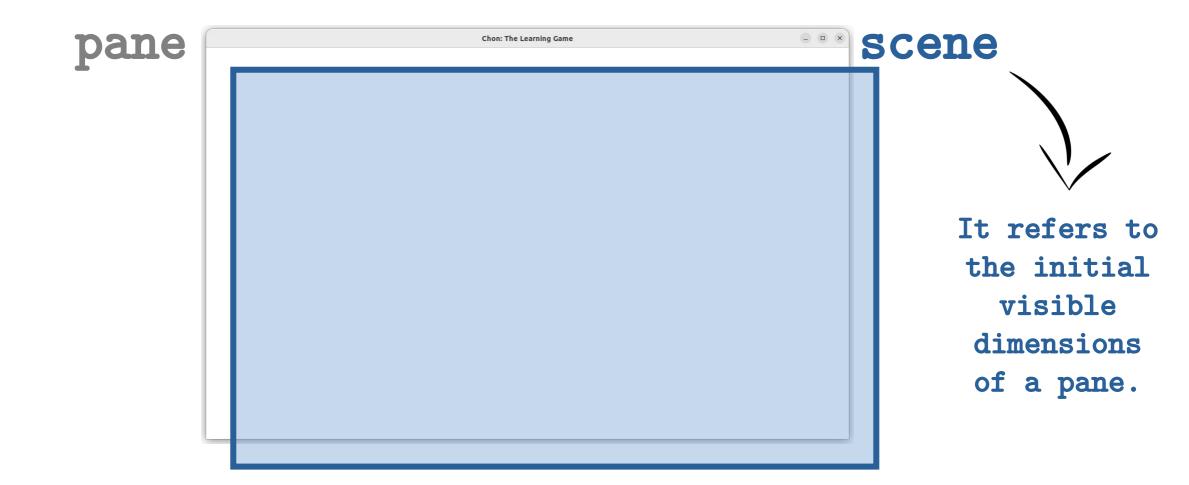
Scene



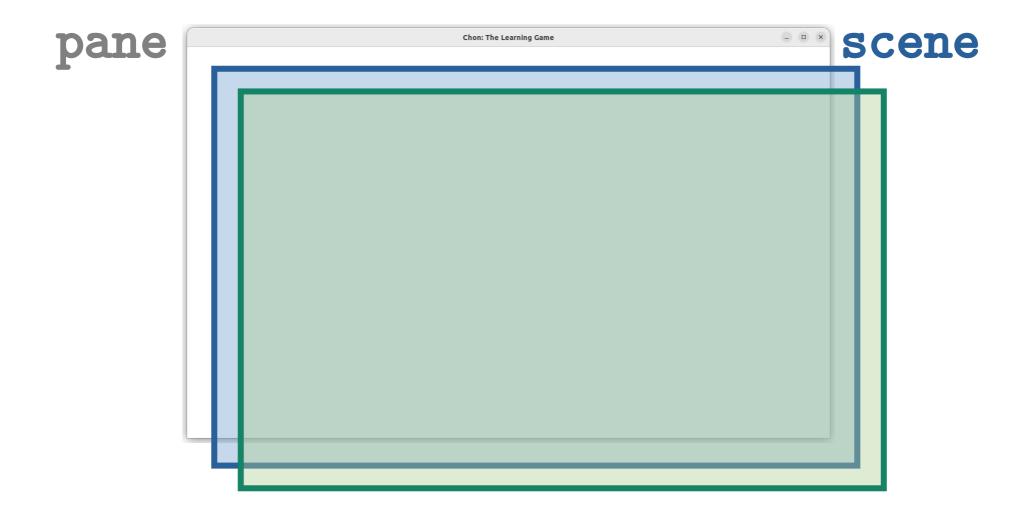
Scene



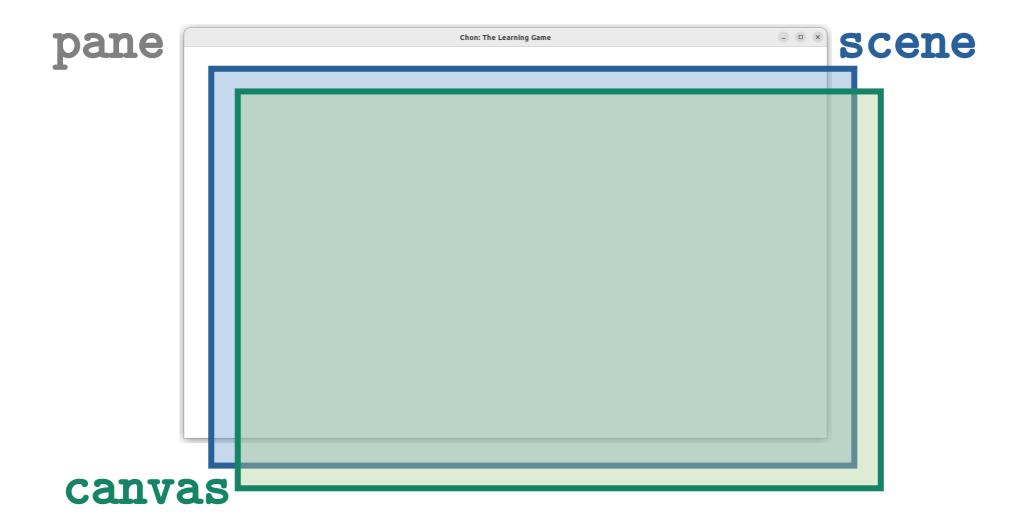
Scene



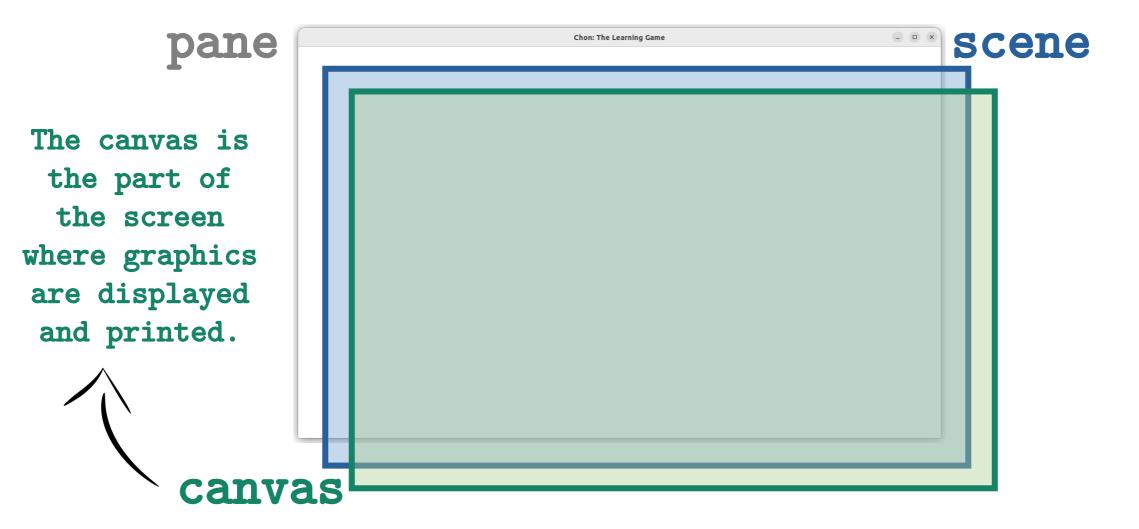
Canvas

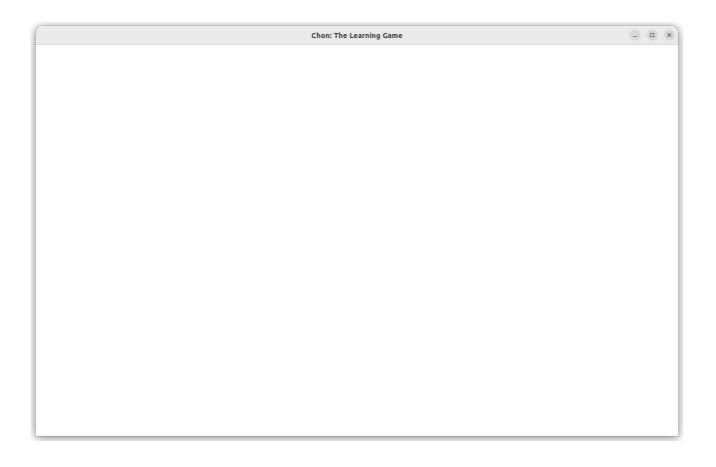


Canvas



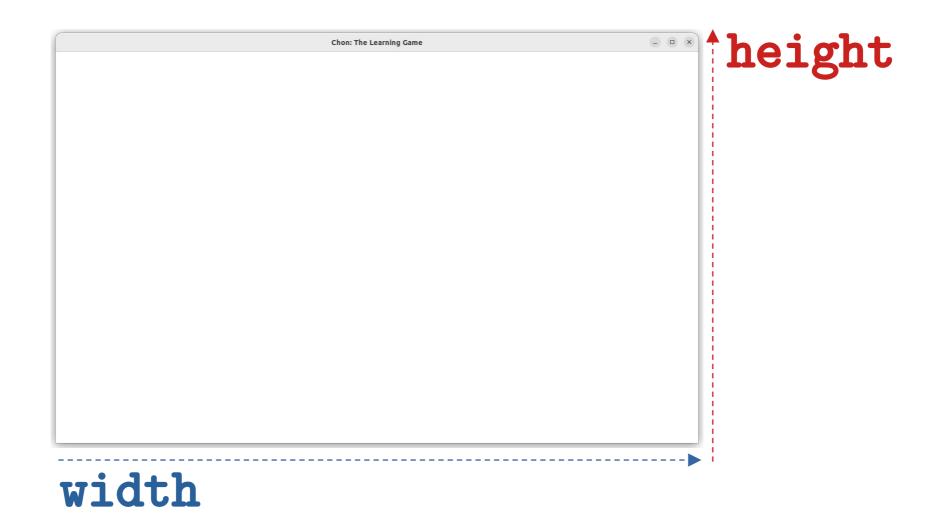
Canvas







width



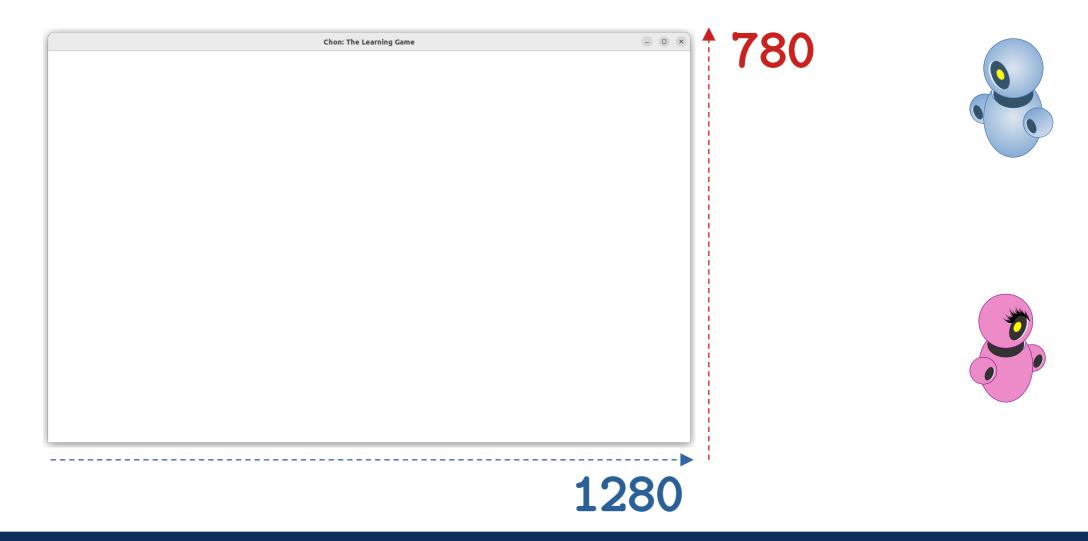


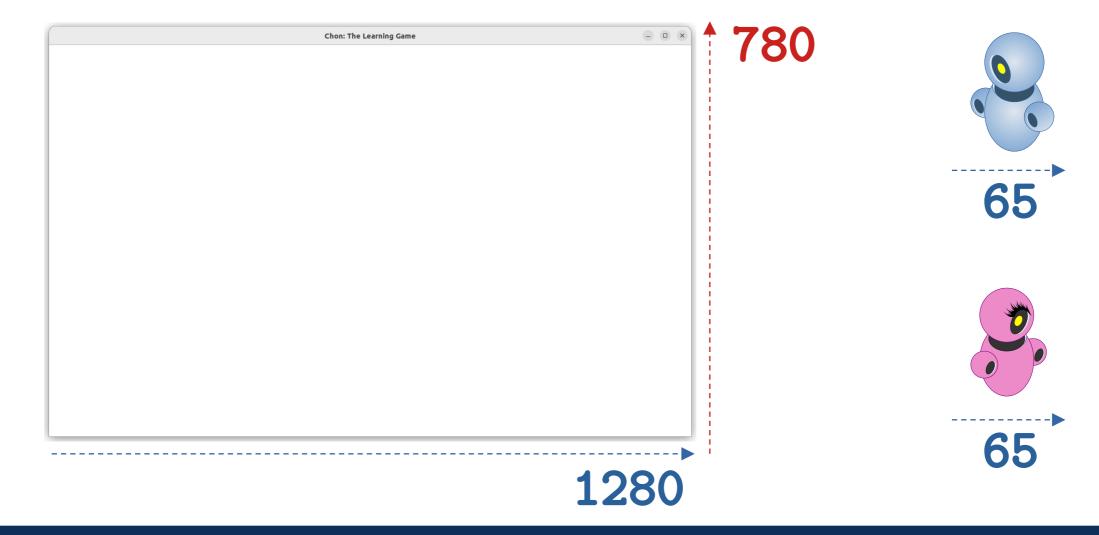


1280



1280



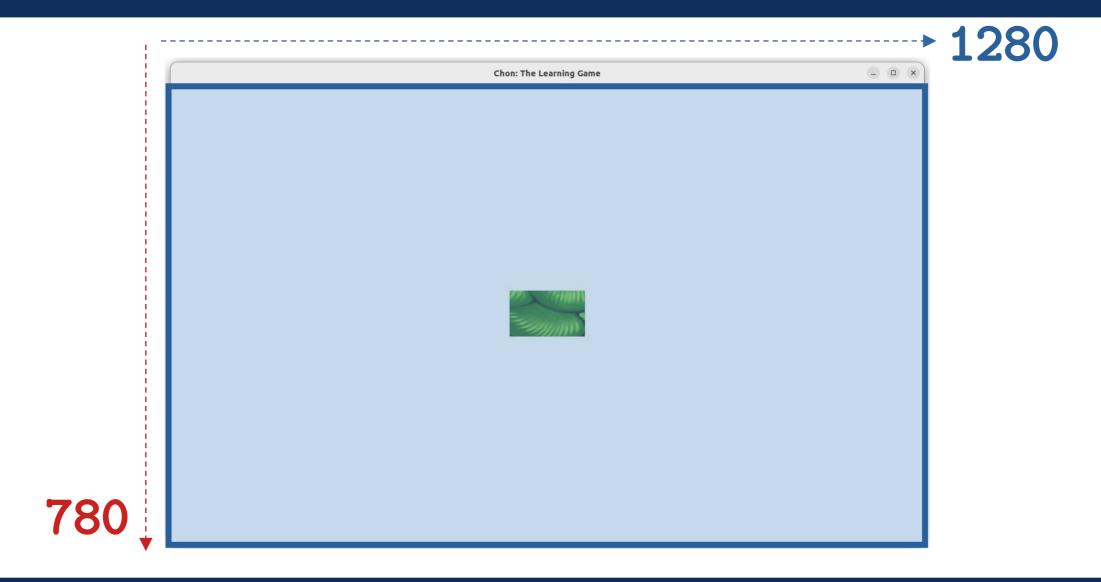




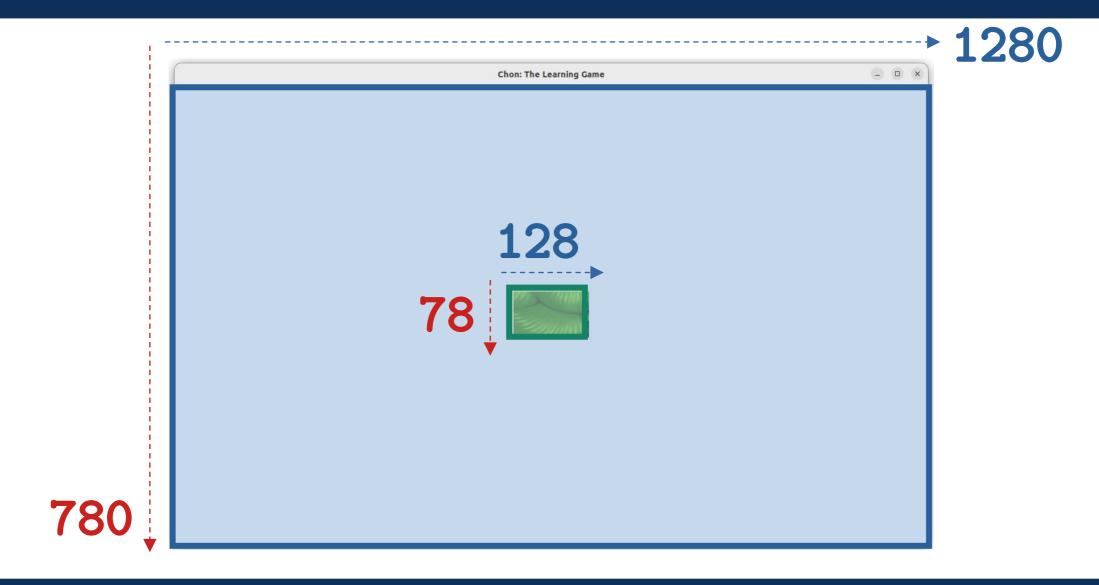
Canvas Example



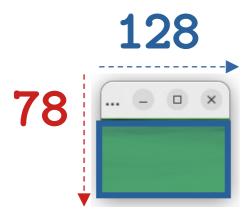
Canvas Example



Canvas Example

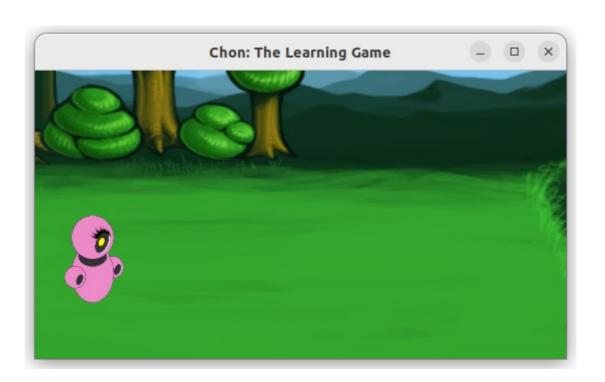




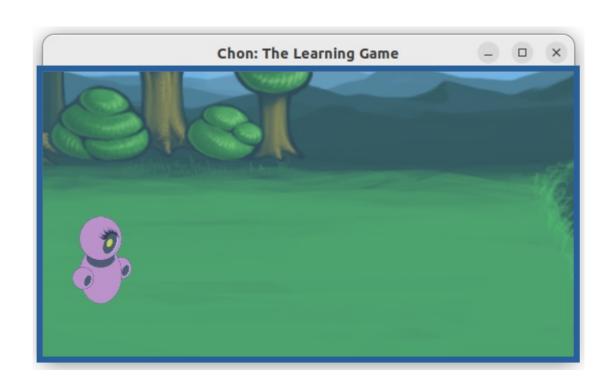


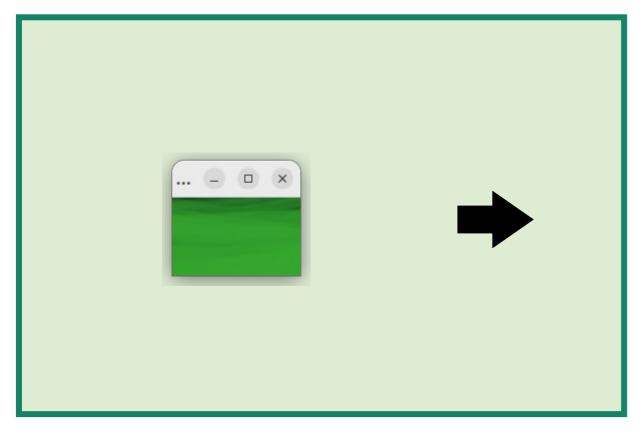


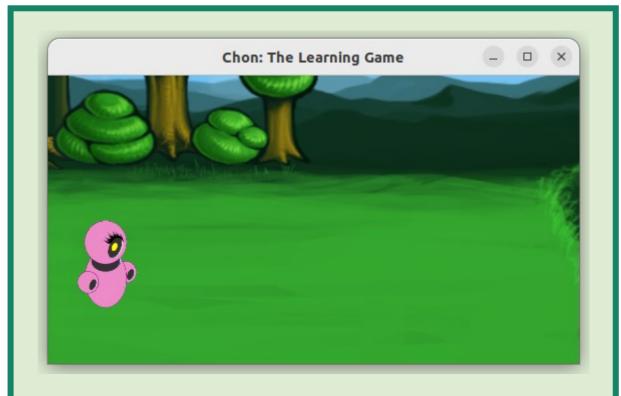






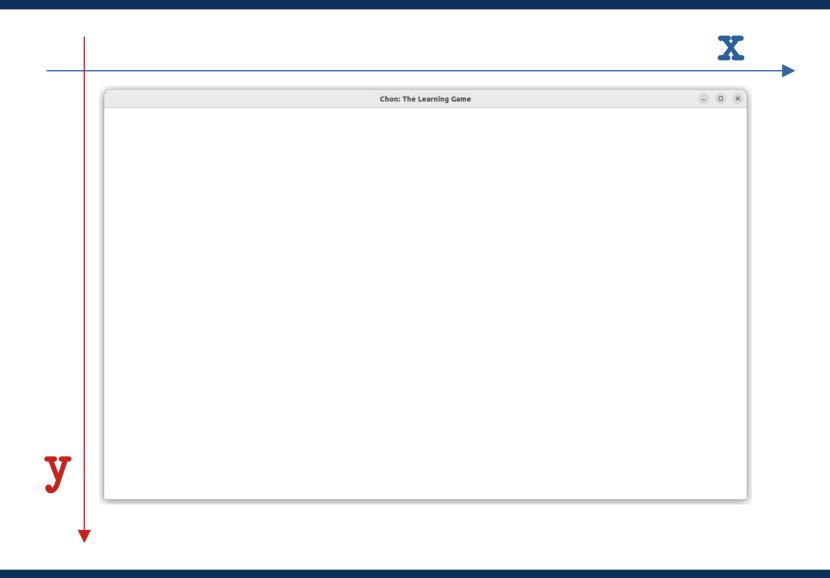


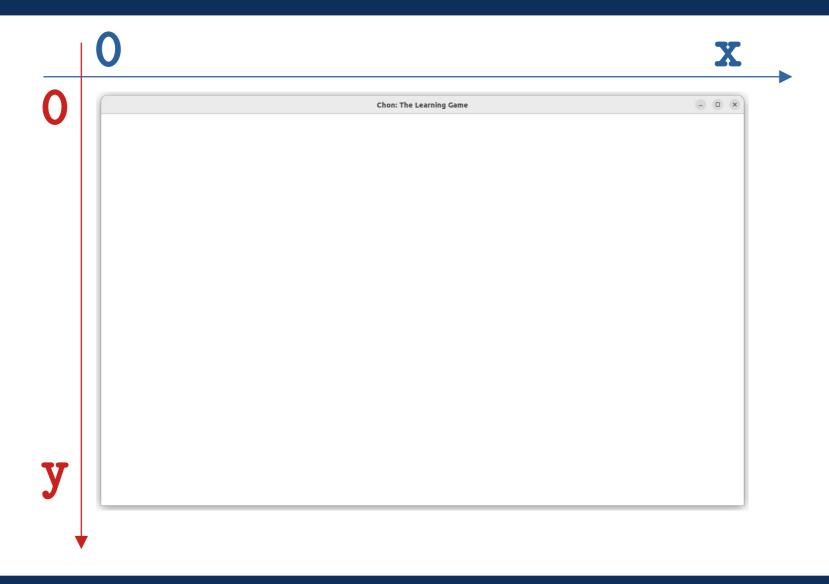








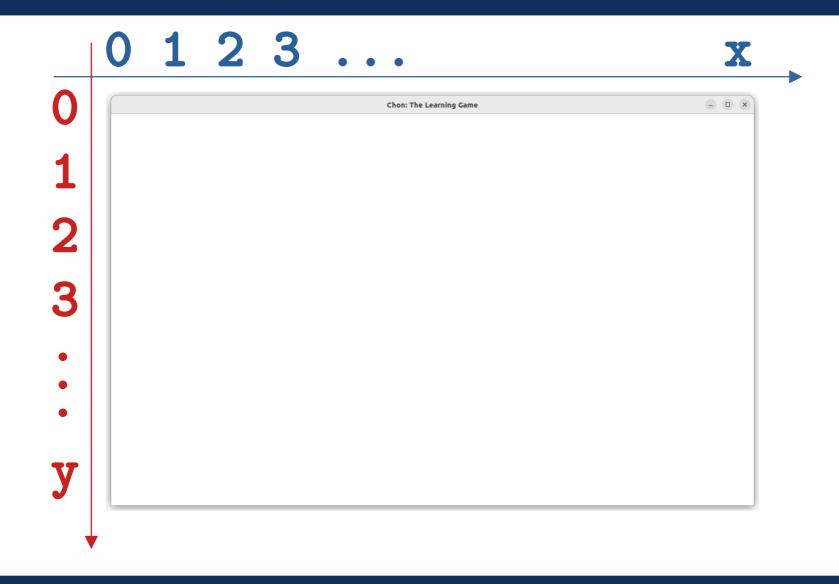




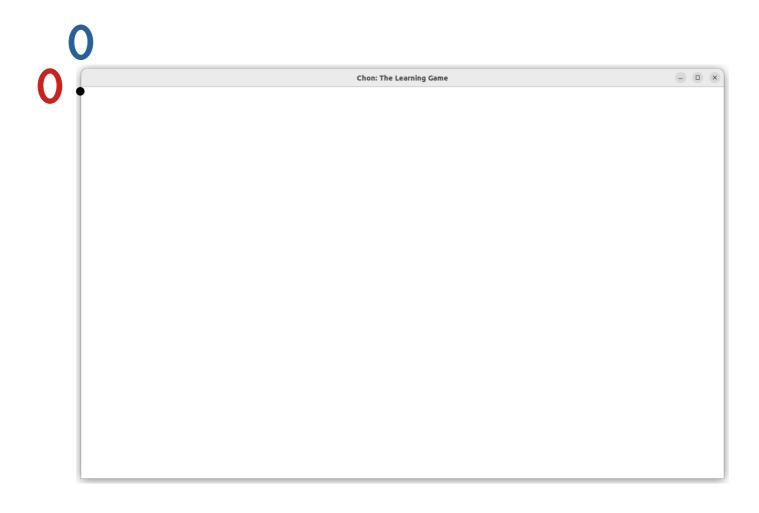
Positioning System



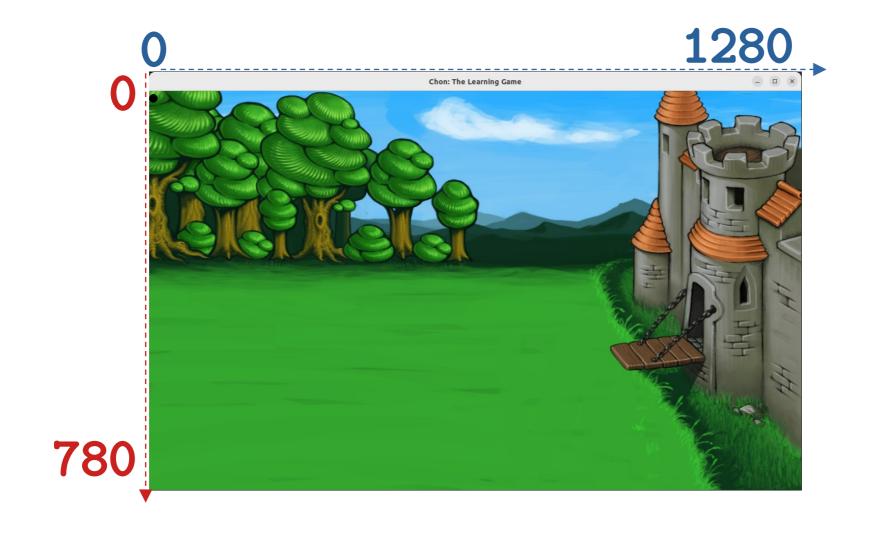
Positioning System



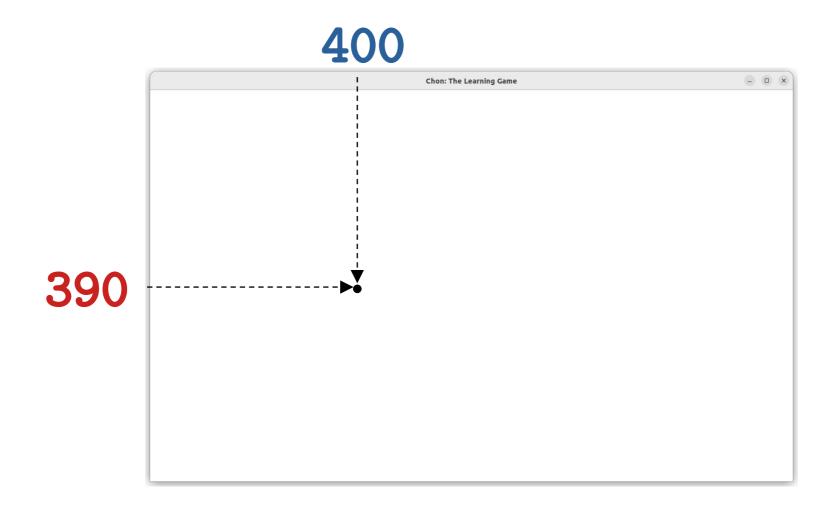


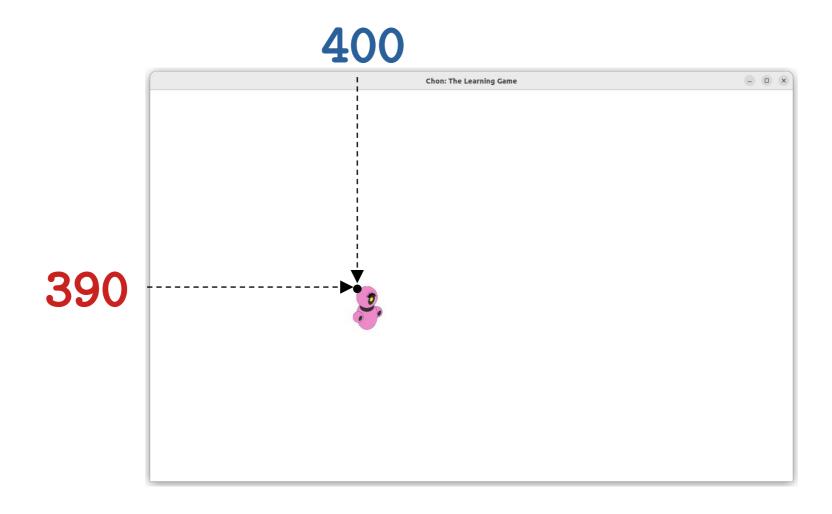


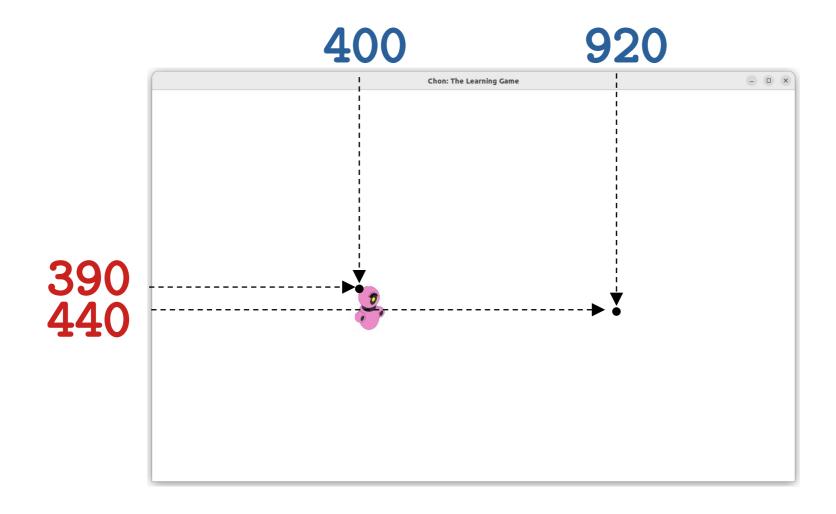


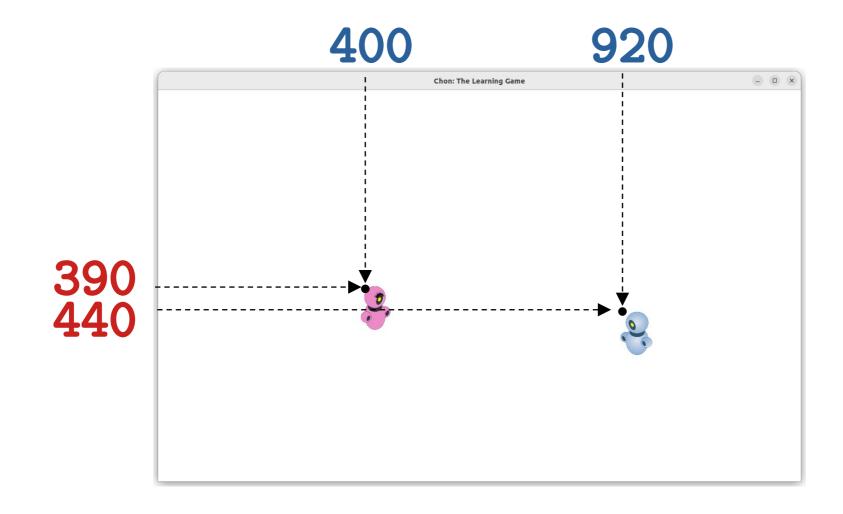






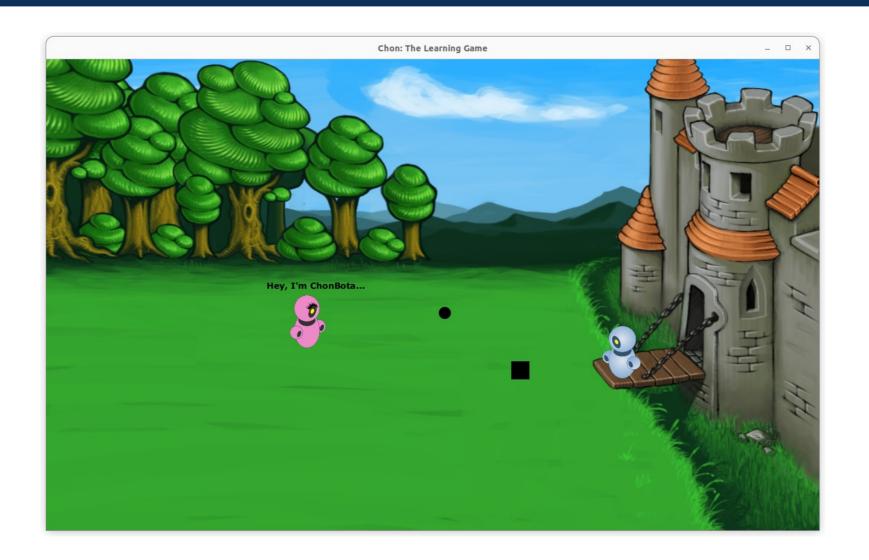




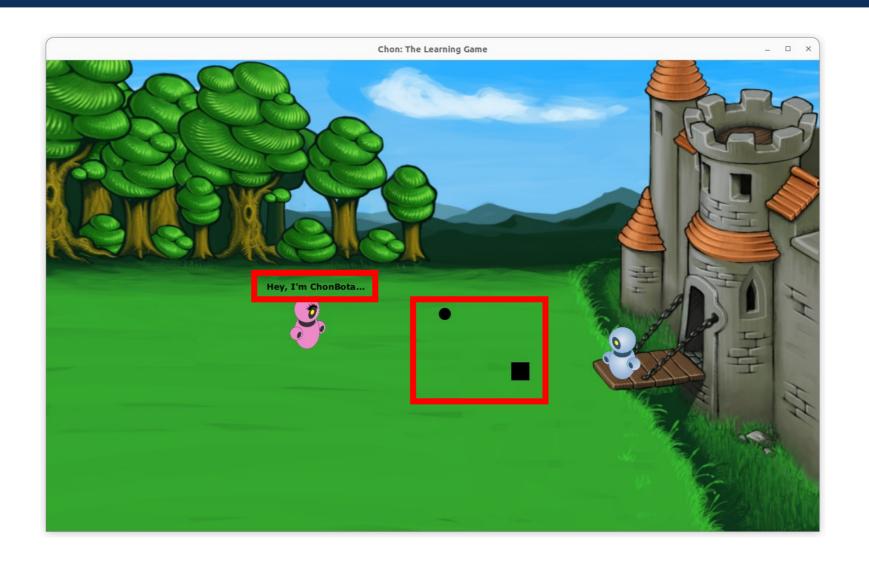




Drawing Other Objects



Drawing Other Objects



Acknowledgments

THANK YOU!