

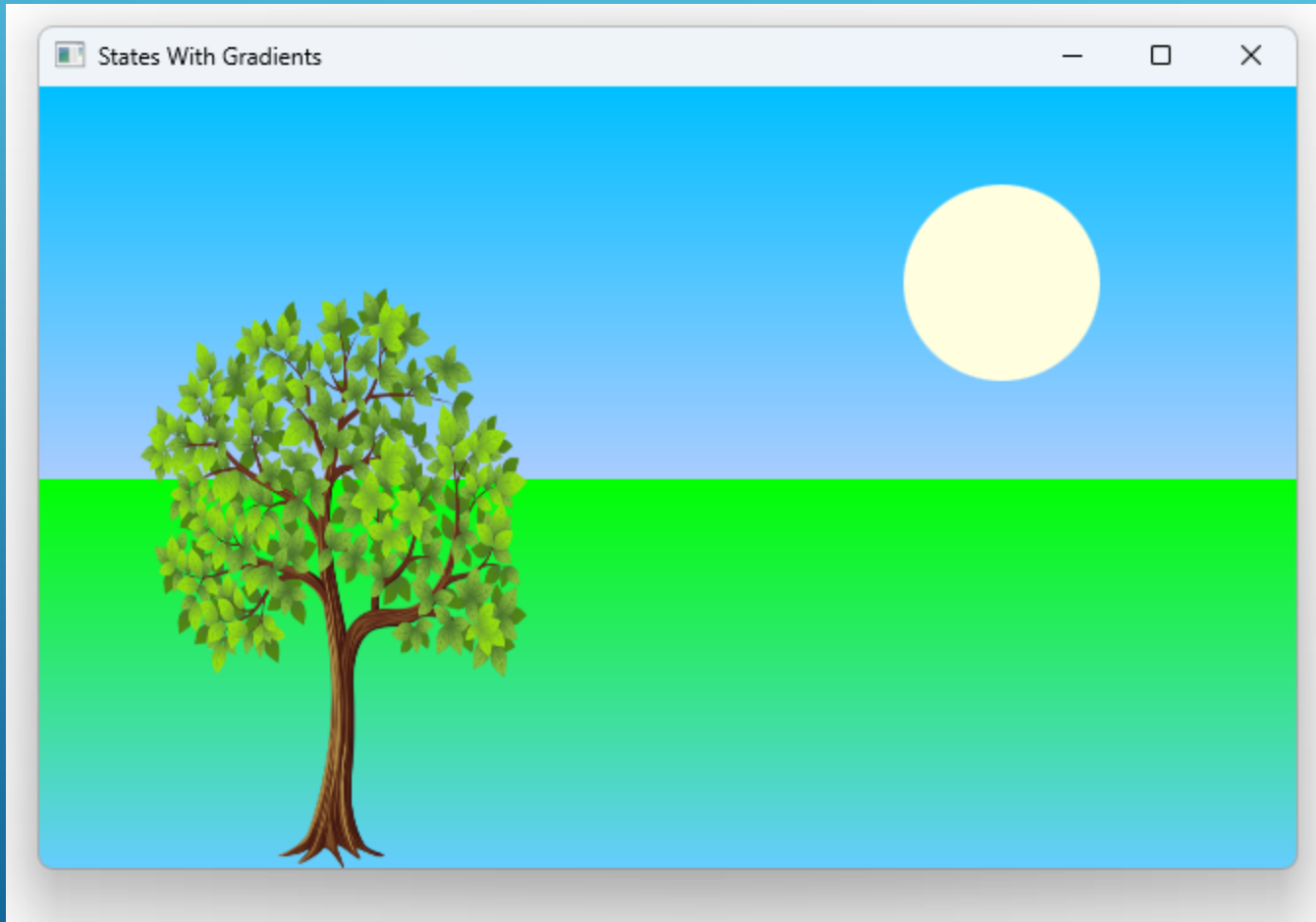
# Notes to self

- . We want to have some gradients applied to the sky and ground.
- . When having gradients that to work with transitions, you don't put a Gradient in a property change like this :

```
.        PropertyChanges {  
    target: sky  
    color : "lightblue"  
    //  
    //        gradient : Gradient {  
    //            GradientStop { position: 0.0; color: "#AA80FF" }  
    //            GradientStop { position: 1.0; color: "#AACCFE" }  
    //        }  
}
```
- . Instead you give your gradient stop elements ids and target them in transitions with the desired values :

```
.        PropertyChanges {  
    target: skyStartColorId  
    color : "lightblue"  
}  
PropertyChanges {  
    target: skyEndColorId  
    color : "#EECCFF"  
}
```
- . Organize the content very well in the slides
- . Use the qt 5 course as a ref and improvise to make this as understandable as possible.

# States with Gradients



# The sky and ground now use gradients

```
Rectangle {
    id: sky
    width: parent.width
    height: 200
    //color : "blue"
    gradient: Gradient {
        GradientStop {id: skyStartColorId; position: 0.0; color: "blue" }
        GradientStop {id : skyEndColorId; position: 1.0; color: "#66CCFF" }
    }
}

Rectangle {
    id: ground
    anchors.top: sky.bottom
    anchors.bottom: parent.bottom
    width: parent.width
    //color: "lime"
    gradient: Gradient {
        GradientStop {id: groundStartColorId; position: 0.0; color: "lime" }
        GradientStop {id : groundEndColorId; position: 1.0; color: "#66CCFF" }
    }
}
```

# Problem

- How to we manipulate these gradients when we go from one state to another?

# BAD!

```
State {  
    name : "summer"  
    PropertyChanges {  
        target: sky  
        gradient : Gradient {  
            GradientStop { position: 0.0; color: "#AA80FF" }  
            GradientStop { position: 1.0; color: "#AACCF" }  
        }  
    }  
}
```

# Use id's instead. Gradients have ID's

```
State {  
    name : "spring"  
    PropertyChanges {  
        target: sky  
        color : "deepskyblue"  
    }  
    PropertyChanges {  
        target: skyStartColorId  
        color : "deepskyblue"  
    }  
    PropertyChanges {  
        target: skyEndColorId  
        color : "#AACCFE"  
    }  
    PropertyChanges {  
        target: groundStartColorId  
        color : "lime"  
    }  
    PropertyChanges {  
        target: groundStartColorId  
        color : "lime"  
    }  
    //...  
}
```

# CMake

```
find_package(Qt6 6.2 COMPONENTS Quick QuickControls2 REQUIRED)
...
target_link_libraries(app2-Button
    PRIVATE Qt6::Quick Qt6::QuickControls2)
```