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#VRML V2.0 utf8
#-----
#                               24-786: GEOMETRIC MODELING
#                               Carnegie Mellon University
#-----

# Specify the background color
Background {
    skyColor 1 1 1
}

# Specify the default navigation mode
NavigationInfo {
    type "EXAMINE"
}

# The definition of "my-box"
PROTO my-box [field SFCOLOR rgb 1 0 0]{
    Shape{
        geometry Box { size 4. 2. 3. }
        appearance Appearance{
            material Material{ diffuseColor IS rgb }
        }
    }
}

# Call PROTO without arguments -> the default color is used
my-box {} # Red (default color)

# Translate and draw a blue box
Transform {
    translation 0. 8. 0.
    children my-box {rgb 0 0 1} # Blue
}

# Rotate and draw a green box
Transform {
    rotation 1 1 1 0.707
    children my-box {rgb 0 1 0 } # Green
}

# An example of a simple kinematic chain
# Any movement of the purple box will move the yellow box.
Transform {
    # What happens if you take out "#" at the beginning of the next line?
    # rotation 0 0 1 0.707
    translation 8. 0. 0.
    children [
        my-box {rgb 1 0 1} # Purple
        Transform {
            rotation 1 1 1 0.707
            children my-box {rgb 1 1 0} # Yellow
        }
    ]
}
}

```

