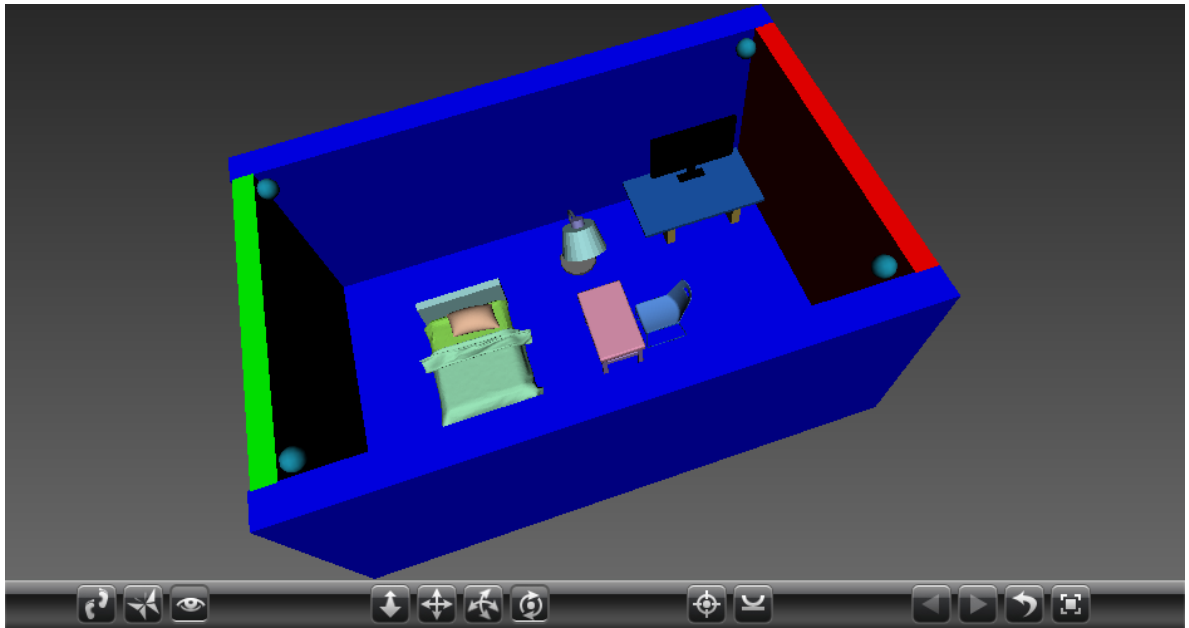


整体结果



建模四面墙壁

```
DEF Box006 Transform {
  translation 32 -15 80
  children [
    Transform {
      translation 0 60 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0 0 1
            }
          }
          geometry Box { size 270 120 15 }
        }
      ]
    }
  ]
}

DEF Box007 Transform {
  translation 32 -15 -84
  children [
    Transform {
      translation 0 60 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0 0 1
            }
          }
          geometry Box { size 270 120 15 }
        }
      ]
    }
  ]
}
```

```

    ] }
  ]
}
DEF Box008 Transform {
  translation 162 -15 -2
  children [
    Transform {
      translation 0 60 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 1 0 0
            }
          }
          geometry Box { size 10 120 150 }
        }
      ]
    }
  ]
}
DEF Box009 Transform {
  translation -97 -15 -2
  children [
    Transform {
      translation 0 60 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0 1 0
            }
          }
          geometry Box { size 10 120 150 }
        }
      ]
    }
  ]
}

```

建模地面

```

DEF Box005 Transform {
  translation 32 0 -2
  children [
    Transform {
      translation 0 -7.5 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0 0 1
            }
          }
          geometry Box { size 250 15 150 }
        }
      ]
    }
  ]
}

```

```
}
```

建模桌子

```
# 桌腿
DEF Box010 Transform {
  translation 100 0 -50
  children [
    Transform {
      translation 0 12.5 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0.8824 0.7765 0.3412
            }
          }
          geometry Box { size 5 25 25 }
        }
      ]
    }
  ]
}

DEF Box011 Transform {
  translation 140 0 -50
  children [
    Transform {
      translation 0 12.5 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0.8824 0.7765 0.3412
            }
          }
          geometry Box { size 5 25 25 }
        }
      ]
    }
  ]
}

# 桌面
DEF Box012 Transform {
  translation 117 25 -50
  children [
    Transform {
      translation 0 1 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0.1098 0.349 0.6941
            }
          }
          geometry Box { size 70 2 40 }
        }
      ]
    }
  ]
}
```

```
}
```

建模显示器

```
DEF Box013 Transform {
  translation 120 27 -60
  children [
    Transform {
      translation 0 0.5 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0 0 0
            }
          }
          geometry Box { size 15 1 5 }
        }
      ]
    }
  ]
}

DEF Cylinder002 Transform {
  translation 120 28 -60
  children [
    Transform {
      translation 0 4 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0 0 0
            }
          }
          geometry Cylinder { radius 2.5 height 8 }
        }
      ]
    }
  ]
}

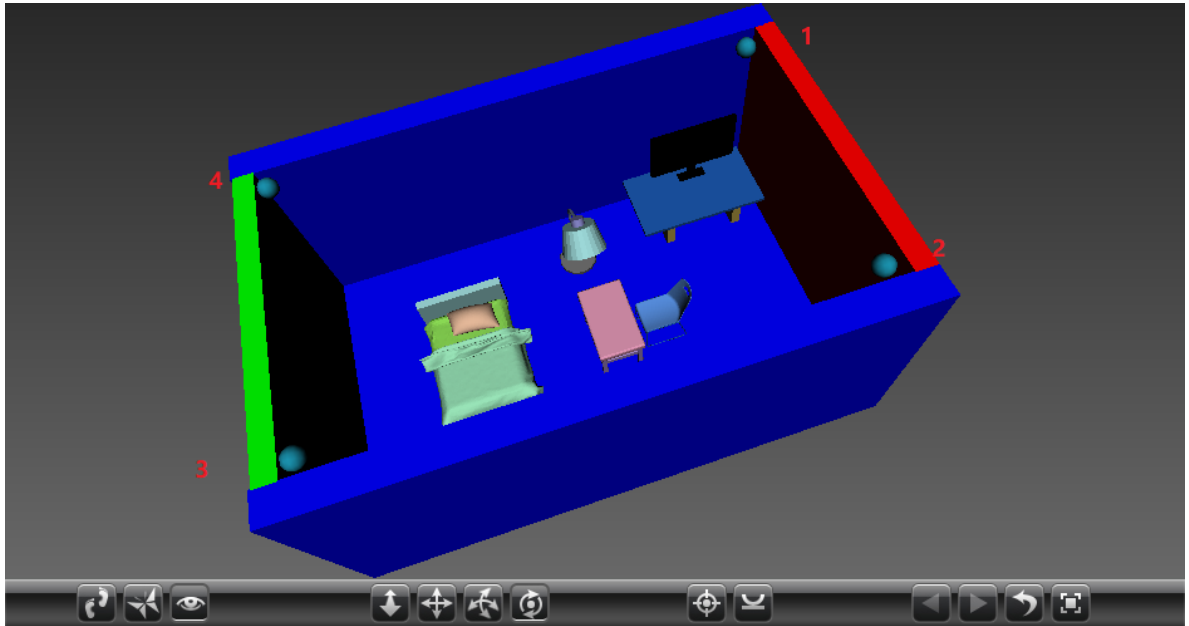
DEF Box014 Transform {
  translation 120 36 -60
  children [
    Transform {
      translation 0 15 0
      children [
        Shape {
          appearance Appearance {
            material Material {
              diffuseColor 0 0 0
            }
          }
          geometry Box { size 48 30 2 }
        }
      ]
    }
  ]
}
```

建模摄像头

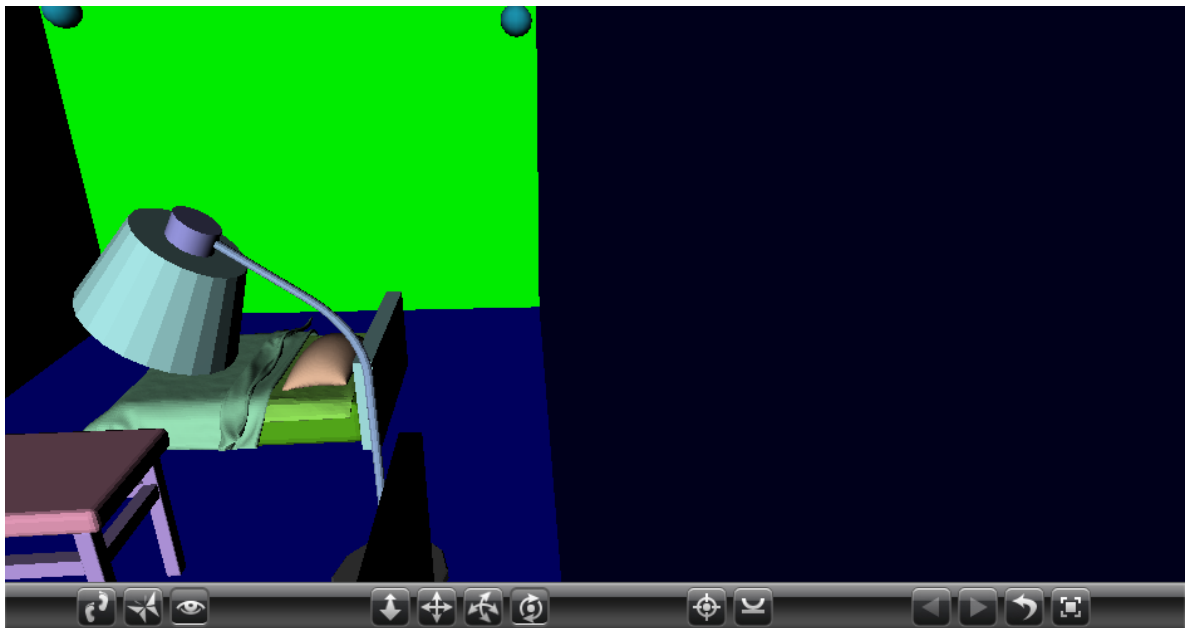
```
DEF Sphere001 Transform {
  translation 150 100 -70
  children [
    Shape {
      appearance Appearance {
        material Material {
          diffuseColor 0.1098 0.5843 0.6941
        }
      }
      geometry Sphere { radius 5 }
    }
    DEF sphere1TouchSensor TouchSensor {}
  ]
}
DEF Sphere002 Transform {
  translation 150 100 64
  children [
    Shape {
      appearance Appearance {
        material Material {
          diffuseColor 0.1098 0.5843 0.6941
        }
      }
      geometry Sphere { radius 5 }
    }
    DEF sphere2TouchSensor TouchSensor {}
  ]
}
DEF Sphere003 Transform {
  translation -88 100 64
  children [
    Shape {
      appearance Appearance {
        material Material {
          diffuseColor 0.1098 0.5843 0.6941
        }
      }
      geometry Sphere { radius 5 }
    }
    DEF sphere3TouchSensor TouchSensor {}
  ]
}
DEF Sphere004 Transform {
  translation -88 100 -70
  children [
    Shape {
      appearance Appearance {
        material Material {
          diffuseColor 0.1098 0.5843 0.6941
        }
      }
      geometry Sphere { radius 5 }
    }
    DEF sphere4TouchSensor TouchSensor {}
  ]
}
```

```
]
}
```

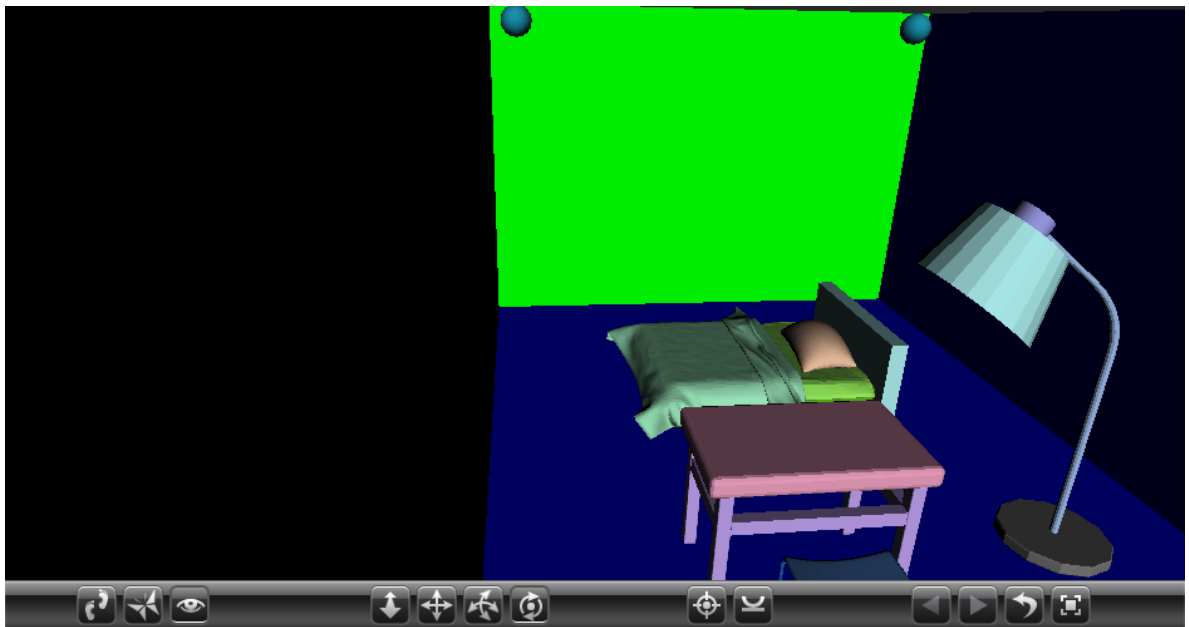
设置摄像头点击事件



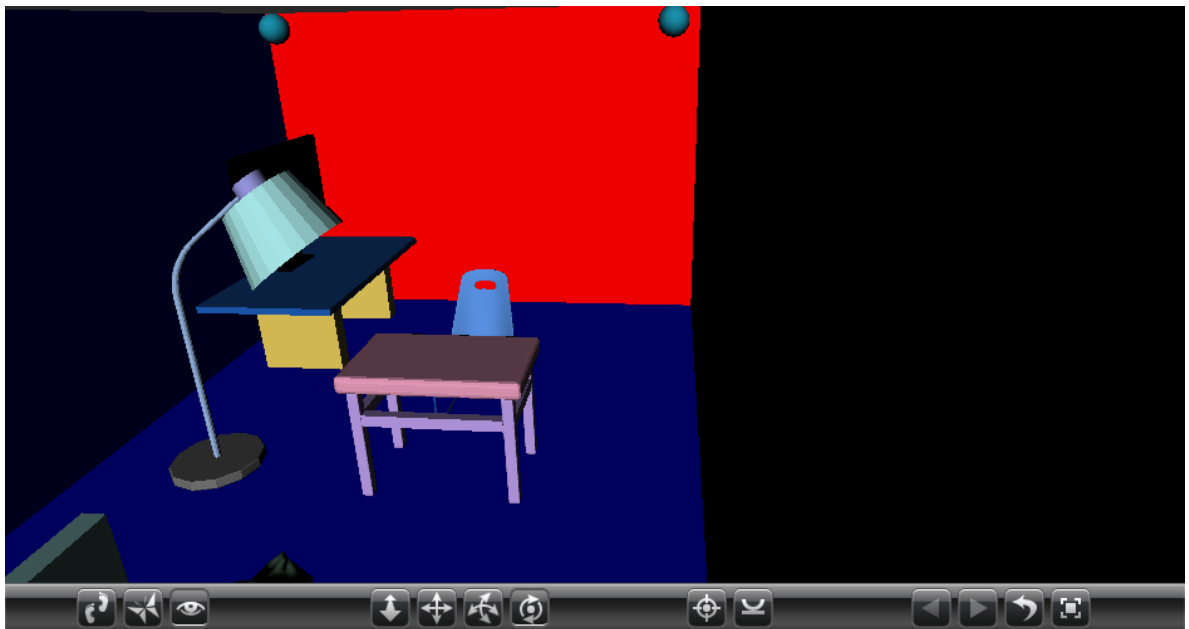
1号摄像头



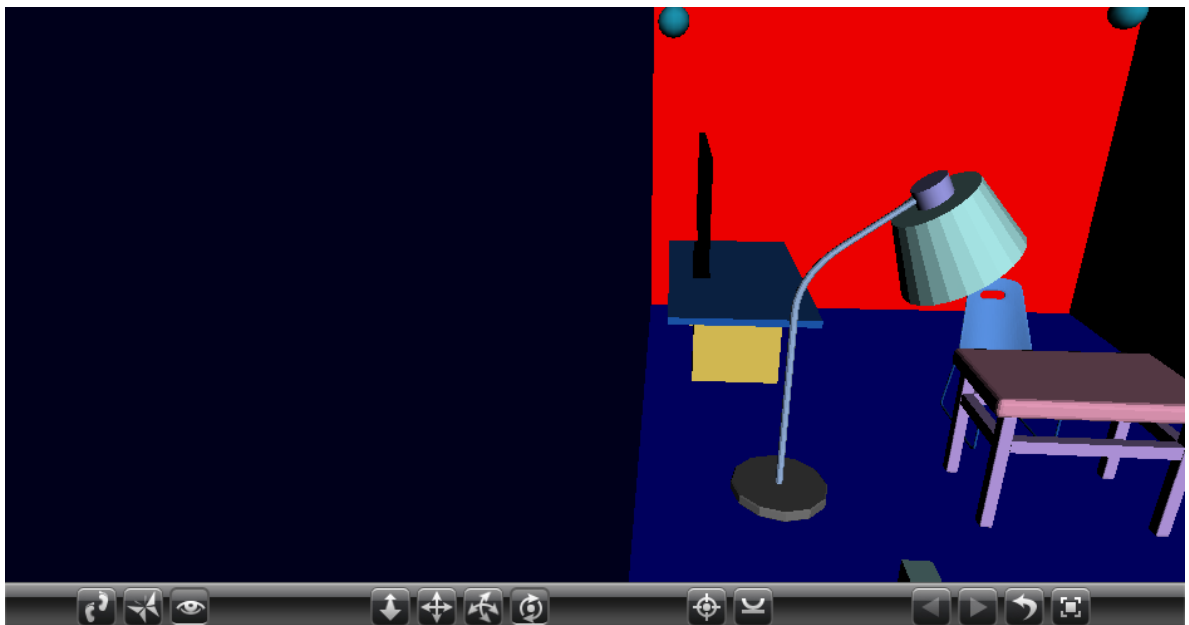
2号摄像头



3号摄像头



4号摄像头



定义视角

```
DEF View1 Viewpoint {
    position 150 100 -70
    orientation -0.2 1 0.2 1.5
}

DEF View2 Viewpoint {
    position 150 100 64
    orientation -0.2 1 0.2 1.5
}

DEF View3 Viewpoint {
    position -88 100 64
    orientation -0.2 -1 -0.2 1.5
}

DEF View4 Viewpoint {
    position -88 100 -70
    orientation -0.2 -1 -0.2 1.5
}
```

添加函数

4个球体添加相应的代码

```
DEF Sphere001 Transform {
    translation 150 100 -70
    children [
        Shape {
            appearance Appearance {
                material Material {
                    diffuseColor 0.1098 0.5843 0.6941
                }
            }
            geometry Sphere { radius 5 }
        }
        DEF sphere1TouchSensor TouchSensor {} # 设定按下时的函数
    ]
}
# 其余三个同理
```

绑定函数

```
ROUTE sphere1TouchSensor.isActive TO View1.set_bind
ROUTE sphere2TouchSensor.isActive TO View2.set_bind
ROUTE sphere3TouchSensor.isActive TO View3.set_bind
ROUTE sphere4TouchSensor.isActive TO View4.set_bind
```