

ГУАП

КАФЕДРА № 44

ОТЧЕТ
ЗАЩИЩЕН С ОЦЕНКОЙ
ПРЕПОДАВАТЕЛЬ

старший преподаватель
должность, уч. степень, звание

подпись, дата

Булгаков Д.А.
инициалы, фамилия

ОТЧЕТ О ЛАБОРАТОРНОЙ РАБОТЕ №2

Сложные геометрические объекты

по курсу: ИНТЕРАКТИВНАЯ КОМПЬЮТЕРНАЯ ГРАФИКА

РАБОТУ ВЫПОЛНИЛ

СТУДЕНТ ГР. № 4843

подпись, дата

Покидов А.Р.
инициалы, фамилия

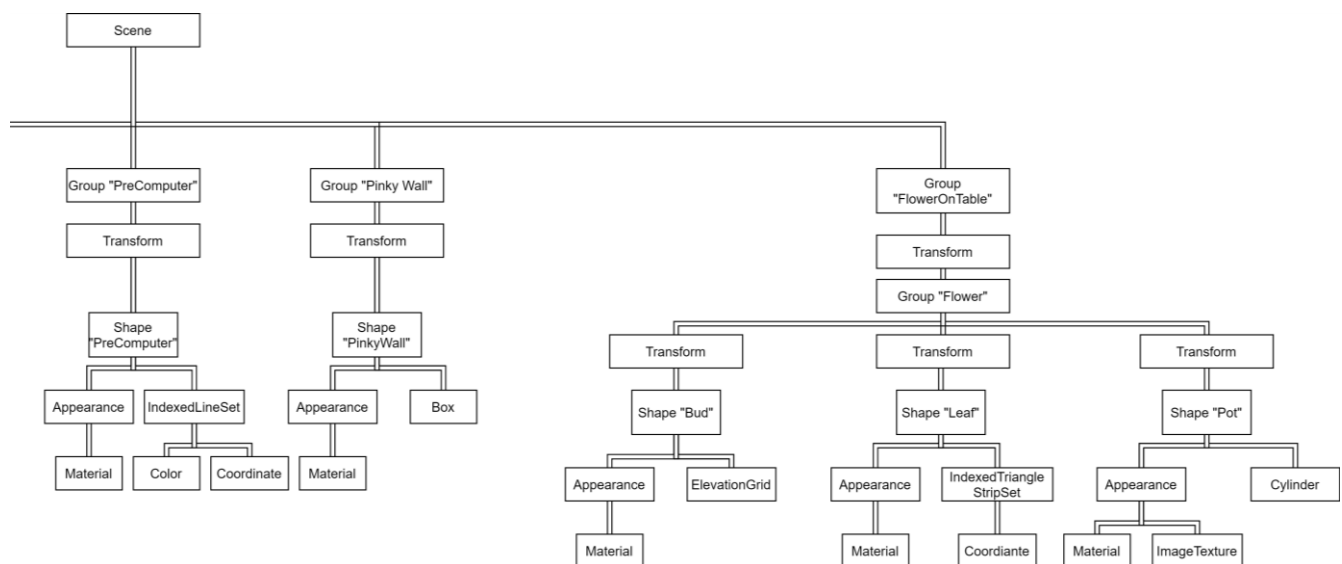
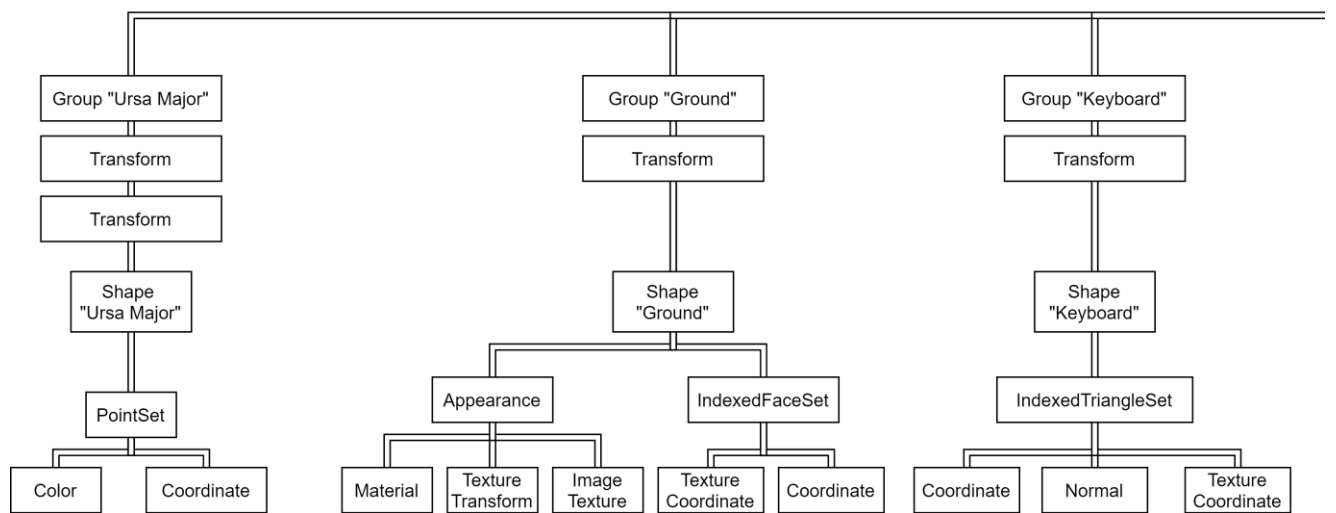
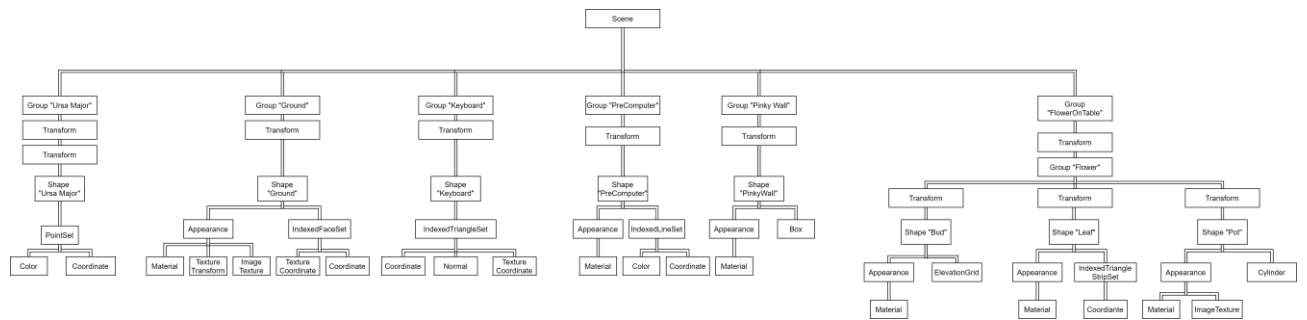
Санкт-Петербург 2021

Вариант задания: 9 вариант

Цель работы: Ознакомление с принципами и приобретение навыков использования узлов сложных геометрических объектов для построения статических X3D-сцен.

Словесное описание сцены: На сцене расположена дополненная композиция из ЛР №1, в сцену были добавлены по заданию – клавиатура, сеть связанных линий, точки, которые повторяют собой вид созвездия большой медведицы, треугольные полигоны, объединенные в линию и повторяющие собой стебель цветка, а также набор полигонов, преобразованных в бутон цветка. Были добавлены текстуры для лампы и горшка. Еще на сцене появился пол, с текстурой паркета.

Граф сцены (дополненный):



Листинг:

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          <appearance>
            <material diffusecolor="green"></material>
          </appearance>
          <IndexedTriangleStripSet ccw='true' colorPerVertex='true' index='0 1 2 3 4 5 6
7 8 9 10 11 12 13 14 -1' normalPerVertex='true' solid='false'>
            <Coordinate point='0 0 0, 0 0 1, 0 1 0, 0 1 1, 0 2 0, 0 1 0, 0 2 -1, 0 2 0, 0 3 -1,
0 3 0, 0 4 0, 0 3 1, 0 4 1, 0 4 0, 0 5 1, 0 5 0' />
          </IndexedTriangleStripSet>
        </shape>
      </transform>
      <transform translation="0 0.05 0">
        <shape def="pot">
          <appearance>
            <material diffusecolor="brown"></material>
            <imagetexture url="potTexture.jpg"></imagetexture>
          </appearance>
          <cylinder height="0.1" radius="0.08"></cylinder>
        </shape>
      </transform>
    </group>
  </transform>
</group>
<group def="ground">
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    <shape>
      <appearance>
        <texturetransform rotation="1.57" scale="10 10"></texturetransform>
        <imagetexture repeatS="true" repeatT="true" scale="true"
url="woodTexture.jpg"></imagetexture>
        <material diffusecolor="#C0C0C0"></material>
      </appearance>
      <IndexedFaceSet solid="false" coordIndex='0 1 2 3 -1'>
        <Coordinate point='-6 -6 0, 4 -6 0, 4 6 0, -6 6 0'></Coordinate>
        <TextureCoordinate point='1 1, 0 1, 0 0, 1 0'></TextureCoordinate>
      </IndexedFaceSet>
    </shape>
  </transform>
</group>

```

```

        </transform>
    </group>
    <group def="PreComputer">
        <transform rotation="0 1 0 1.57" translation="-0.55 -0.7525 -0.1" scale="0.08 0.08
0.08">
            <Shape>
                <Appearance>
                    <Material></Material>
                </Appearance>
                <IndexedLineSet colorIndex='0 1 -1 1 2 -1 2 3 -1 3 0 -1 6 7 -1 7 4 -1 4 5 -1 5 6 -1 0 6
-1 1 7 -1 2 4 -1 3 5 -1' coordIndex='0 1 -1 1 2 -1 2 3 -1 3 0 -1 6 7 -1 7 4 -1 4 5 -1 5 6 -1 0 6 -1 1 7 -1
2 4 -1 3 5 -1'>
                    <Color color='1 0 0 0 1 0 0 0 1 1 1 0 1 0 0 0 1 0 0 0 1 1 1 0 1 0 0 0 1 0 0 0 1 1 1
0'></Color>
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0'></Coordinate>
                </IndexedLineSet>
            </Shape>
        </transform>
    </group>
    <group def="constellation Ursa Major">
        <transform rotation="0 0 1 1.57" translation="5 8.35 -30" scale="3 3 3">
            <transform rotation="0 1 0 1.57">
                <shape def="ursa major">
                    <pointSet>
                        <color color="0 0 1, 0 0 1, 0 0 1, 0 0 1, 0 0 1, 0 0 1, 0 0 1"></color>
                        <coordinate point="0 0 0, 0 0.1 -1, 0 0.9 -1, 0 1 0, 0 2 0.5, 0 3 1, 0 4 0.5">
                        </coordinate>
                    </pointSet>
                </shape>
            </transform>
        </transform>
    </group>
    <group def="pinkyWall">
        <transform translation="5 10 -35">
            <shape>
                <appearance>
                    <material diffusecolor="#C7B8EA"></material>
                </appearance>

                <box size="50 40 5"></box>
            </shape>
        </transform>
    </group>
</Scene>
</X3D>
</body>

</html>

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Скриншоты сцены:



Рисунок №1 - сцена

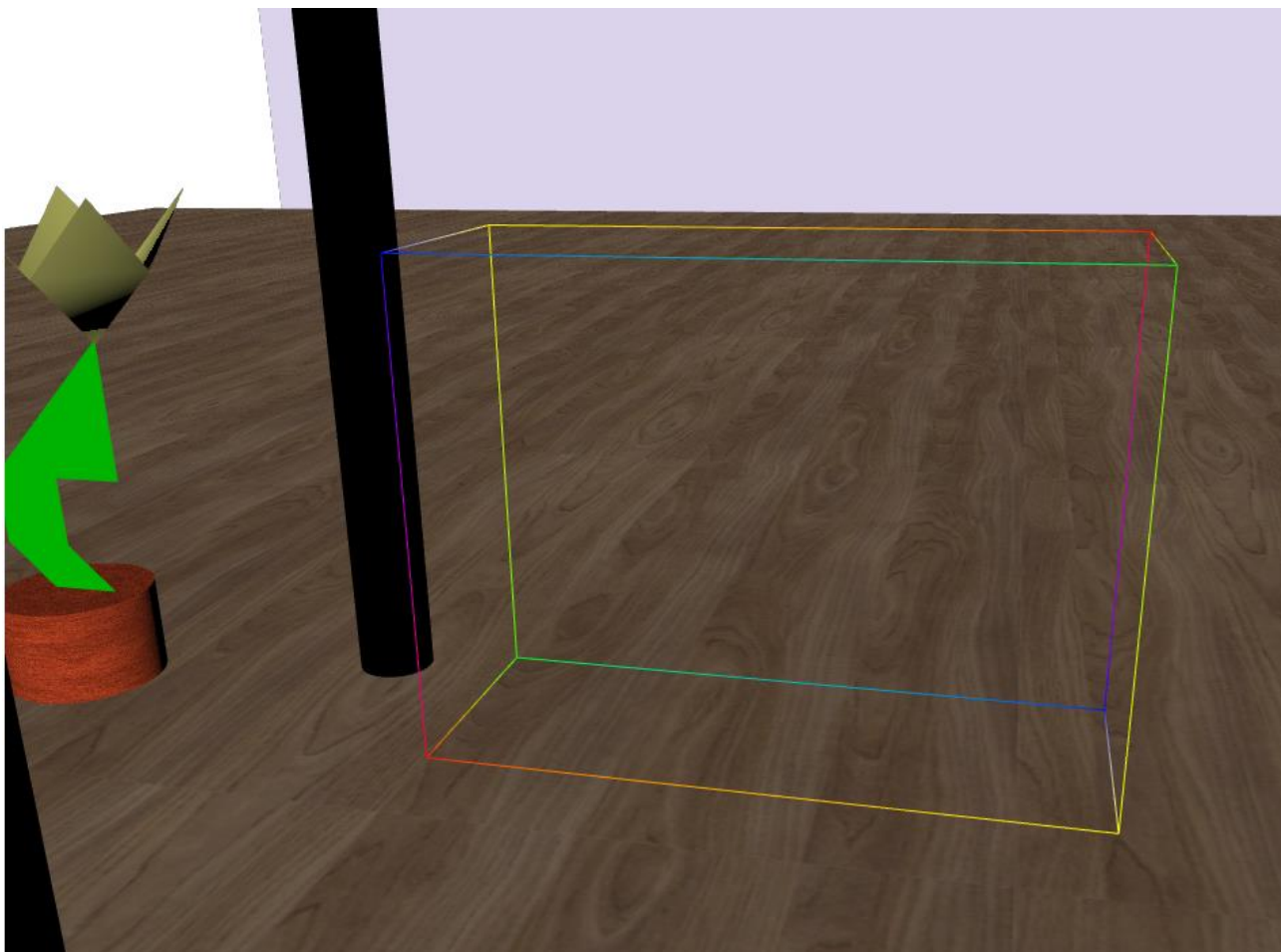


Рисунок №2 - PreComputer



Рисунок №3 - клавиатура



Рисунок №4 - лампа