using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Data;

using System.Windows.Documents;

using System.Windows.Input;

using System.Windows.Media;

using System.Windows.Media.Imaging;

using System.Windows.Navigation;

using System.Windows.Shapes;

using System.Windows.Media.Media3D;

using System.Windows.Media.Animation;

namespace WpfApp6

{

/// <summary>

/// Логика взаимодействия для MainWindow.xaml

/// </summary>

public partial class MainWindow : Window

{

public MainWindow()

{

InitializeComponent();

}

Model3DGroup modelGroup = new Model3DGroup();

PerspectiveCamera myPCamera = new PerspectiveCamera();

GeometryModel3D teapotModel = new GeometryModel3D();

Transform3DCollection myTransforms = new Transform3DCollection();

Viewport3D myViewport = new Viewport3D();

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

//Set camera viewpoint and properties.

myPCamera.FarPlaneDistance = 20;

myPCamera.NearPlaneDistance = 1;

myPCamera.FieldOfView = 45;

myPCamera.Position = new Point3D(0, 0, 10);

myPCamera.LookDirection = new Vector3D(0, 0, -10);

myPCamera.UpDirection = new Vector3D(0, 1, 0);

//Add light sources to the scene.

//PointLight myDirLight = new PointLight(Color.FromRgb(255, 255, 255), new Point3D(0, 0, 10));

DirectionalLight myDirLight = new DirectionalLight(Color.FromRgb(255, 255, 255), new Vector3D(1, 1, -3));

teapotModel.Geometry = (MeshGeometry3D)Application.Current.Resources["myTeapot"];

Brush objectBrush;

DiffuseMaterial diffuseMaterial;

SpecularMaterial specularMaterial;

MaterialGroup matGroup = new MaterialGroup();

matGroup.Children.Clear();

objectBrush = new SolidColorBrush(Color.FromArgb(255, 255, 0, 255));

diffuseMaterial = new DiffuseMaterial(objectBrush);

specularMaterial = new SpecularMaterial(new SolidColorBrush(Color.FromRgb(255, 255, 255)), 100);

matGroup.Children.Add(diffuseMaterial);

matGroup.Children.Add(specularMaterial);

teapotModel.Material = matGroup;

RotateTransform3D myRotateTransform3D = new RotateTransform3D(new AxisAngleRotation3D(new Vector3D(1, 1, 1), 45), new Point3D(0, 0, 0));

Transform3DGroup trGrp = new Transform3DGroup();

TranslateTransform3D trs = new TranslateTransform3D(new Vector3D(0, 0.5, 0));

trGrp.Children.Clear();

trGrp.Children.Add(myRotateTransform3D);

trGrp.Children.Add(trs);

teapotModel.Transform = trGrp;

//Выполняет анимацию значения свойства Double между двумя целевыми значениями с помощью

//линейной интерполяции в течение указанного времени Duration.

DoubleAnimation rotAnimaion = new DoubleAnimation(360, 0, new Duration(TimeSpan.FromSeconds(2)));

rotAnimaion.RepeatBehavior = RepeatBehavior.Forever;

myRotateTransform3D.Rotation.BeginAnimation(AxisAngleRotation3D.AngleProperty, rotAnimaion);

DoubleAnimation xAnim = new DoubleAnimation();

xAnim.From = -2; xAnim.To = 2;

xAnim.RepeatBehavior = new RepeatBehavior(20);

xAnim.Duration = TimeSpan.FromSeconds(2);

xAnim.AutoReverse = true;

trs.BeginAnimation(TranslateTransform3D.OffsetXProperty, xAnim);

modelGroup.Children.Add(teapotModel);

modelGroup.Children.Add(myDirLight);

ModelVisual3D modelsVisual = new ModelVisual3D();

modelsVisual.Content = modelGroup;

//Add the visual and camera to the Viewport3D.

myViewport.Camera = myPCamera;

myViewport.Children.Add(modelsVisual);

this.Content = myViewport;

}

}

}

<Application x:Class="WpfApp6.App"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:local="clr-namespace:WpfApp6"

StartupUri="MainWindow.xaml">

<Application.Resources>

<MeshGeometry3D x:Key="myTeapot" Positions="0.6788729 0.330678 0 0.669556 0.358022 0 0.6710029 0.374428 0 0.6804349 0.379897 0 0.6950769 0.374428 0 0.712148 0.358022 0 0.728873 0.330678 0 0.6542429 0.330678 0.187963 0.645254 0.358022 0.185461 0.64665 0.374428 0.18585 0.6557509 0.379897 0.188383 0.6698769 0.374428 0.192314 0.686348 0.358022 0.196898 0.702484 0.330678 0.201389 0.5845019 0.330678 0.355704 0.5764409 0.358022 0.350969 0.5776929 0.374428 0.351704 0.5858539 0.379897 0.356498 0.5985219 0.374428 0.363938 0.6132919 0.358022 0.372613 0.627762 0.330678 0.381111 0.475873 0.330678 0.497 0.469258 0.358022 0.490385 0.470285 0.374428 0.491412 0.476982 0.379897 0.498109 0.487377 0.374428 0.5085049 0.499498 0.358022 0.5206259 0.5113729 0.330678 0.5325 0.334576 0.330678 0.6056299 0.329842 0.358022 0.5975689 0.330577 0.374428 0.5988199 0.33537 0.379897 0.6069819 0.34281 0.374428 0.6196489 0.351485 0.358022 0.634419 0.359984 0.330678 0.6488889 0.166836 0.330678 0.6753699 0.164334 0.358022 0.6663809 0.164722 0.374428 0.6677769 0.167255 0.379897 0.6768779 0.171187 0.374428 0.6910039 0.175771 0.358022 0.7074749 0.180262 0.330678 0.7236109 -0.021127 0.330678 0.6999999 -0.021127 0.358022 0.6906829 -0.021127 0.374428 0.69213 -0.021127 0.379897 0.7015629 -0.021127 0.374428 0.7162039 -0.021127 0.358022 0.7332759 -0.021127 0.330678 0.7499999 -0.224715 0.330678 0.6753699 -0.215631 0.358022 0.6663809 -0.211606 0.374428 0.6677769 -0.211463 0.379897 0.6768779 -0.21402 0.374428 0.6910039 -0.218098 0.358022 0.7074749 -0.222516 0.330678 0.7236109 -0.396831 0.330678 0.6056299 -0.383671 0.358022 0.5975689 -0.378758 0.374428 0.5988199 -0.380125 0.379897 0.6069819 -0.385806 0.374428 0.6196489 -0.393832 0.358022 0.634419 -0.402238 0.330678 0.6488889 -0.5350019 0.330678 0.497 -0.521278 0.358022 0.490385 -0.517539 0.374428 0.491412 -0.5213459 0.379897 0.498109 -0.5302569 0.374428 0.5085049 -0.541831 0.358022 0.5206259 -0.553627 0.330678 0.5325 -0.636757 0.330678 0.355704 -0.6244829 0.358022 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Normals="-0.9457507,-0.3222559,-0.04130899 -0.992771,-0.120019,-0.001089 -0.8427508,0.5381688,0.012052 -0.08358802,0.9962882,0.02056001 0.5321701,0.8466032,0.007614002 0.7793002,0.6266412,0.003491001 0.879896,0.475165,0.001103 -0.9024127,-0.3227829,-0.2854159 -0.9585577,-0.120097,-0.2583479 -0.8168749,0.5385789,-0.206514 -0.08619004,0.9962775,-0.001604001 0.5114839,0.8469418,0.145167 0.7513633,0.6271642,0.2052271 0.8492812,0.4756821,0.2290151 -0.7974489,-0.323303,-0.5094609 -0.8586246,-0.1203279,-0.4982818 -0.7350169,0.5389569,-0.411431 -0.08258003,0.9962944,-0.02404301 0.4557349,0.8473518,0.272581 0.6718558,0.6278678,0.3929269 0.7603989,0.476384,0.44142 -0.6393409,-0.323439,-0.6975889 -0.7011832,-0.120461,-0.7027312 -0.60404,0.539064,-0.58698 -0.07339898,0.9963088,-0.04451099 0.3699249,0.8474988,0.3806589 0.5477221,0.6281432,0.5526631 0.6208259,0.4766599,0.6223909 -0.437782,-0.323142,-0.839003 -0.4963727,-0.1204369,-0.8597144 -0.4324432,0.5388762,-0.7229143 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0.669165,-0.453044,-0.5890409 0.6864011,-0.28753,-0.6679671 0.643212,0.404496,-0.650124 0.07460403,0.9914605,-0.1069591 -0.391289,0.8379869,0.380356 -0.5554837,0.6231316,0.5505857 -0.6226361,0.4760081,0.6210801 0.8217878,-0.4077159,-0.3980359 0.8498941,-0.24443,-0.4668341 0.7780953,0.4358042,-0.4523742 0.09545795,0.9921145,-0.08121795 -0.4736589,0.8398708,0.2650739 -0.6782652,0.6237241,0.3884901 -0.7617679,0.4758419,0.4396409 0.9191499,-0.348512,-0.183583 0.9562184,-0.1711391,-0.2373981 0.8388228,0.4938979,-0.229 0.09432202,0.9944041,-0.04757801 -0.52064,0.843596,0.131452 -0.7547529,0.6251799,0.198741 -0.8499968,0.4754259,0.226882 0.9455373,-0.3221831,0.04644601 0.9918807,-0.126966,0.007215998 0.8475716,0.5306047,-0.008995995 0.08787897,0.9959177,-0.02061499 -0.5330627,0.8460405,-0.007710996 -0.7796119,0.6262529,-0.003531999 -0.8799261,0.4751091,-0.001109 0.9024127,-0.3227829,0.2854159 0.9585577,-0.120097,0.2583479 0.8168749,0.5385789,0.206514 0.08619004,0.9962775,0.001604001 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0.6753657,0.6278797,-0.3868439 0.7615061,0.4763981,-0.439492 -0.9241586,-0.3225468,0.2046809 -0.9591116,-0.1202569,0.2562089 -0.8106211,0.538458,0.230122 -0.07511897,0.9963036,0.04166798 0.515534,0.8469041,-0.1303 0.7531826,0.6271816,-0.1983909 0.8498498,0.4757029,-0.226852 0.9081803,0.4185792,0.0001700001 0.9200605,0.3917758,0.0003349998 0.9392541,0.343222,0.0004780001 0.9638073,0.2665991,0.0005520002 0.9882613,0.1527721,0.0004490002 0.9989327,-0.04618698,-0.0002619999 0.8768925,0.4190732,0.2354511 0.8883488,0.3922469,0.238702 0.9068913,0.3436481,0.2438321 0.9306441,0.266938,0.250291 0.9543506,0.1529589,0.2565509 0.9648667,-0.04630398,0.2586269 0.785456,0.419734,0.454843 0.7957066,0.3928828,0.4609708 0.8123339,0.3442279,0.4707659 0.833667,0.267414,0.483207 0.8550121,0.15325,0.4954481 0.8646632,-0.04637201,0.5002071 0.6415988,0.4199898,0.6418408 0.649935,0.39313,0.65041 0.6634937,0.3444569,0.6641727 0.6809247,0.2676069,0.6817096 0.698421,0.153377,0.699059 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0.2595231,-0.9327074,0.2504091 0.109137,-0.988408,0.10554 0.04761298,-0.9978087,0.04594098 0.020018,-0.999627,0.018575 0.3980141,-0.629932,0.6669111 0.1863179,-0.9326347,0.3089949 0.07829598,-0.9883937,0.130182 0.034185,-0.997806,0.056696 0.01456399,-0.9996266,0.02311699 0.211443,-0.6293949,0.7477659 0.09992103,-0.9324203,0.3472871 0.04191198,-0.9883515,0.1463029 0.018338,-0.9977978,0.06374098 0.008087002,-0.9996253,0.02615 0.010332,-0.6289898,0.7773448 0.006476999,-0.9322358,0.361793 0.002559001,-0.9883152,0.152402 0.00119,-0.9977908,0.06642199 0.001027,-0.999624,0.027401 -0.191218,-0.62944,0.753154 -0.08729099,-0.9323858,0.3507659 -0.03692602,-0.9883445,0.1476881 -0.01602101,-0.9977965,0.06438603 -0.006086998,-0.9996247,0.02670599 -0.3800228,-0.6299617,0.6772966 -0.1751239,-0.9326115,0.3155428 -0.07388099,-0.9883888,0.132774 -0.03213301,-0.9978051,0.05790001 -0.012794,-0.9996263,0.02415701 -0.5416951,-0.6301472,0.5563101 -0.2504091,-0.9327074,0.2595231 -0.10554,-0.988408,0.109137 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0.3912121,-0.8532173,-0.3449251 0.7436751,-0.5428411,-0.3902191 0.9136017,-0.07395598,-0.3998279 0.9729245,0.2311209,-0.0009179995 0.9123298,0.409438,-0.003848999 0.8280289,0.5606489,-0.006407999 0.7168072,0.6972392,-0.006712001 0.5759888,0.8174508,-0.003301999 0.4951329,0.8676327,-0.04534999 0.8939853,0.2131421,0.3941582 0.8406055,0.3838952,0.3821082 0.76886,0.531454,0.355543 0.6725095,0.6656775,0.3234262 0.5456098,0.7796327,0.3073799 0.4793028,0.8430496,0.2439999 0.5763878,0.133958,0.8061218 0.5444701,0.253746,0.7994781 0.508754,0.364144,0.780108 0.4611798,0.4717798,0.7514897 0.3872811,0.5611662,0.7315092 0.371347,0.666129,0.646818 0.002409999,-0.014515,0.9998917 0.001300999,-0.01641099,0.9998645 0.0007199997,-0.02020099,0.9997956 0.003255998,-0.02135899,0.9997665 0.008875996,-0.01333699,0.9998716 0.07275897,0.1317089,0.9886146 -0.5690878,-0.161451,0.8062708 -0.5243167,-0.2948408,0.7988496 -0.4726348,-0.4106098,0.7797537 -0.4157828,-0.5086058,0.7539527 -0.3496738,-0.5796757,0.7360056 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-0.06818298,-0.130578,-0.9890907 0.5733869,0.149188,-0.8055869 0.5412272,0.2667141,-0.7974563 0.503525,0.37727,-0.7772579 0.4514521,0.4841441,-0.7495302 0.3723861,0.5710221,-0.7316162 0.2897071,0.5290532,-0.7976043 0.8926538,0.2161309,-0.3955459 0.8372342,0.3848361,-0.3885101 0.763231,0.53164,-0.367202 0.6654689,0.6661019,-0.336837 0.5379951,0.7819742,-0.3147661 0.4553238,0.8109198,-0.3675449 -0.145927,0.9870438,0.06670499 -0.3502529,0.9366408,-0.005156999 -0.7109947,0.7031907,-0.003046999 -0.8994002,0.4371011,0.004678001 -0.9302377,0.3665789,0.01665599 -0.8458401,0.53304,0.020564 -0.6463717,0.7630176,0.002775999 -0.128906,0.8415668,0.5245459 -0.2920189,0.8520818,0.4343749 -0.6153548,0.6751188,0.4068819 -0.799678,0.453205,0.393853 -0.8141301,0.3843811,0.4352511 -0.7117425,0.4966544,0.4967464 -0.5387179,0.6839559,0.4919219 -0.05432799,0.4454299,0.8936668 -0.120328,0.5357402,0.8357653 -0.285367,0.495269,0.8205329 -0.427214,0.405516,0.808112 -0.4552616,0.3541817,0.8168793 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0.7884782,-0.4931071,-0.3676241 0.8910884,-0.2752708,-0.3608148 0.8564791,-0.282922,-0.4317391 0.6922176,-0.5273307,-0.4927037 0.4734868,-0.7492617,-0.4630518 0.166654,-0.429938,-0.8873441 0.339768,-0.4583481,-0.8212641 0.59016,-0.27624,-0.758553 0.668115,-0.103914,-0.736766 0.5900092,-0.07674003,-0.8037413 0.4332869,-0.219357,-0.8741538 0.299036,-0.368898,-0.8800521 0.02786899,0.102187,-0.9943747 0.08815198,0.03181499,-0.9955988 0.174456,0.09618498,-0.9799558 0.1887081,0.161291,-0.9686972 0.1276859,0.1757739,-0.9761146 0.05450897,0.1309859,-0.9898844 0.01587699,0.11673,-0.9930367 -0.08107201,0.607187,-0.7904121 -0.164116,0.522469,-0.836715 -0.3196262,0.4634052,-0.8264954 -0.4229708,0.3834499,-0.8210126 -0.4245339,0.3535969,-0.8335108 -0.3516121,0.3881061,-0.8519053 -0.270475,0.475063,-0.837352 -0.133739,0.917541,-0.374476 -0.3160429,0.8394898,-0.4420109 -0.6311809,0.6566489,-0.4128229 -0.8074049,0.4430169,-0.3896579 -0.8216587,0.3862289,-0.4191708 -0.7077482,0.5173932,-0.4810372 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0.4536729,-0.7468348,0.4862289 0.6921583,-0.08006204,0.7172914 0.185758,0.9425361,0.277704 -0.211188,0.9552742,-0.207004 -0.3129609,0.8810608,-0.3546649 -0.336331,0.8113451,-0.4781221 0.4824449,-0.8758158,-0.013906 0.9130126,-0.4055718,-0.04381098 0.5069092,0.8539203,0.117742 -0.2340329,0.9721234,0.01429499 -0.3480328,0.9374674,0.005276997 -0.3840639,0.9210727,-0.06418498 0.457762,-0.7176679,-0.524792 0.6833472,-0.06301402,-0.7273692 0.3573609,0.8981858,-0.2560379 -0.2070099,0.9478627,0.2422869 -0.3143869,0.8723568,0.3743719 -0.36104,0.8728191,0.328385 0.280225,-0.218552,-0.934724 0.261124,0.434074,-0.8622029 0.060553,0.978577,-0.196775 -0.1318089,0.8810936,0.4542028 -0.195016,0.6588579,0.7265499 -0.247824,0.6303589,0.7356839 0.008860001,0.321862,-0.9467451 0.001382001,0.7331892,-0.6800233 -0.01272,0.9979491,-0.06273401 -0.011656,0.7852209,0.6191059 0.000967,0.344022,0.938961 -0.03735999,0.214324,0.9760478 -0.2133601,0.6488383,-0.7304014 -0.140052,0.8658911,-0.4802271 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