

Text "jaw phantom"

Phantom

//neck

```
{  
    [ Cylinder_z: x=0 y=0 z=5 r=6 l=10 ]  
    rho = 1  
}
```

//head

```
{  
    [ Cylinder_z: x=0 y=6 z=6.5 r=6 l=7 ]  
    rho = 1  
}  
  
{  
    [ Box: x=0 y=3 z=6.5 dx=12 dy=6 dz=7 ]  
    rho = 1  
}
```

//spine

```
{  
    [ Ellipt_Cyl_z: x=0 y=-1 z=5 dx=2.5 dy=1.5 l=10 ]  
    rho = 2  
}
```

// vertebrae

```
{  
    [ Ellipt_Cyl_z: x=0 y=-1 z=1.5 dx=2.5 dy=1.5 l=1 ]  
    rho = 1  
}  
  
{  
    [ Ellipt_Cyl_z: x=0 y=-1 z=4.5 dx=2.5 dy=1.5 l=1 ]  
    rho = 1  
}
```

```
}  
  
{  
    [ Ellipt_Cyl_z: x=0  y=-1  z=7.5  dx=2.5  dy=1.5  l=1 ]  
    rho = 1  
}  
  
//spine-bonemarrow  
  
{  
    [ Cylinder_z: x=0  y=-1.5  z=5  r=0.5  l=10 ]  
    rho = 1.1  
}  
  
//jawbone  
  
{  
    [ Cylinder_z: x=0  y=7.5  z=6  r=3.5  l=5  y>7.5]  
    rho = 2  
}  
  
{  
    [ Cylinder_z: x=0  y=7.5  z=6  r=2  l=5  y>7.5]  
    rho = 1  
}  
  
{  
    [ Box: x=0  y=5.25  z=6  dx=7  dy=4.5  dz=5 ]  
    rho = 2  
}  
  
{  
    [ Box: x=0  y=6.25  z=6  dx=4  dy=2.5  dz=5 ]  
    rho = 1  
}  
  
{  
    [ Box: x=0  y=4  z=6  dx=5  dy=2  dz=5 ]
```

```

        rho = 1
    }

// space between jaws
{
    [ Cylinder_z: x=0  y=7.5  z=6  r=3.5  l=2  y>7.5 ]
    rho = 0
}
{
    [ Box: x=0  y=6.25  z=6  dx=7  dy=2.5  dz=2 ]
    rho = 0
}

//teeth - lower right back to front
{
    [ Cylinder_z: x=3  y=5.5  z=5.475  r=0.5  l=.95 ]
    rho = 2.2
}
//crown
{
    [ Cylinder_z: x=3  y=6.5  z=5.475  r=0.5  l=.95 ]
    rho = 19.3
}
//crown
{
    [ Cylinder_z: x=3  y=7.5  z=5.475  r=0.5  l=.95 ]
    rho = 19.3
}
{
    [ Cylinder_z: x=2.9  y=8.4  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}

```

```
{
    [ Cylinder_z: x=2.5  y=9.2  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=1.9  y=9.9  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=1.2  y=10.4 z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=0.4  y=10.6  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}

//teeth - upper right back to front
{
    [ Cylinder_z: x=3  y=5.5  z=6.525  r=0.5  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=3  y=6.5  z=6.525  r=0.5  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=3  y=7.5  z=6.525  r=0.5  l=.95 ]
    rho = 2.2
}
{
```

```

    [ Cylinder_z: x=2.9  y=8.4  z=6.525  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=2.5  y=9.2  z=6.525  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=1.9  y=9.9  z=6.525  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=1.2  y=10.4  z=6.525  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=0.4  y=10.6  z=6.525  r=0.4  l=.95 ]
    rho = 2.2
}

//teeth - lower left back to front
{
    [ Cylinder_z: x=-3  y=5.5  z=5.475  r=0.5  l=.95 ]
    rho = 2.2
}

//crown
{
    [ Cylinder_z: x=-3  y=6.5  z=5.475  r=0.5  l=.95 ]
    rho = 19.3
}
{
    [ Cylinder_z: x=-3  y=7.5  z=5.475  r=0.5  l=.95 ]

```

```

    rho = 2.2
}
{
    [ Cylinder_z: x=-2.9  y=8.4  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=-2.5  y=9.2  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=-1.9  y=9.9  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=-1.2  y=10.4  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=-0.4  y=10.6  z=5.475  r=0.4  l=.95 ]
    rho = 2.2
}

//teeth - upper left back to front
{
    [ Cylinder_z: x=-3  y=5.5  z=6.525  r=0.5  l=.95 ]
    rho = 2.2
}
{
    [ Cylinder_z: x=-3  y=6.5  z=6.525  r=0.5  l=.95 ]
    rho = 2.2
}

```

```
}  
//gap  
//{  
//  [ Cylinder_z: x=-3  y=7.5  z=6.525  r=0.5  l=.95 ]  
//  rho = 2.2  
//}  
{  
  [ Cylinder_z: x=-2.9  y=8.4  z=6.525  r=0.4  l=.95 ]  
  rho = 2.2  
}  
{  
  [ Cylinder_z: x=-2.5  y=9.2  z=6.525  r=0.4  l=.95 ]  
  rho = 2.2  
}  
{  
  [ Cylinder_z: x=-1.9  y=9.9  z=6.525  r=0.4  l=.95 ]  
  rho = 2.2  
}  
{  
  [ Cylinder_z: x=-1.2  y=10.4  z=6.525  r=0.4  l=.95 ]  
  rho = 2.2  
}  
{  
  [ Cylinder_z: x=-0.4  y=10.6  z=6.525  r=0.4  l=.95 ]  
  rho = 2.2  
}  
  
//trachea  
{  
  [ Cylinder_z: x=0  y=3.75  z=2.5  r=0.75  l=5 ]  
  rho = 0  
}
```

```

//mouth
{
    [ Cylinder_z: x=0  y=5  z=7.5  r=2  l=5]
    rho = 0
}
{
    [ Cylinder_z: x=0  y=7.5  z=7.5  r=2  l=5]
    rho = 0
}
{
    [ Box: x=0  y=6.25  z=7.5  dx=4  dy=2.5  dz=5 ]
    rho = 0
}

// roof of the mouth
{
    [ Cylinder_z: x=0  y=7.5  z=8.75  r=3.5  l=0.5  y>5]
    rho = 2
}
{
    [ Box: x=0  y=6.25  z=8.75  dx=7  dy=2.5  dz=0.5 ]
    rho = 2
}

// low contrast object in tongue
{
    [ Sphere: x=-1  y=7  z=4  r=.5 ]
    rho = 1.01
}

```