# Skip to content Add Icosphere

#### Reference

#### Mode:

Object Mode and Edit Mode

#### Tool:

Toolbar - Add Icosphere

Interactively add an Icosphere mesh object.

# Usage

First define the base of the object by dragging with  $^{LMB}$  . Next, release  $^{LMB}$  and move the mouse to define the height of the object. Finally, click  $^{LMB}$  to confirm the shape of the object.

You can use the following hotkeys to temporarily change a setting (for as long as the key is held):

Ctrl Toggles snapping.

Alt Toggles the *Origin* setting.

Shift Toggles the *Aspect* setting.

# **Tool Settings**

# **Depth**

The initial depth (from the screen into the scene) used when placing the object.

#### **Surface:**

Start placing on the surface under the mouse cursor. If there is no surface, this does the same as Cursor Plane.

# **Cursor Plane:**

Start placing on a plane that goes through the 3D Cursor and is aligned according to the *Orientation* and *Plane Axis*.

# **Cursor View:**

Start placing on a plane that goes through the 3D Cursor and is aligned to the view.

#### Orientation

The new object's orientation – a set of three axes, out of which *Plane Axis* chooses one.

# **Surface:**

The object uses the normal orientation of the surface under the mouse cursor. If there is no surface, this does the same as Default.

#### **Default:**

The object uses the default Transform Orientation.

# Snap To

The target to use while Snapping.

#### Geometry:

Snap to all types of geometry (vertices, edges, and faces).

#### Default:

Snap to the target defined in the global snapping options.

# Plane Axis

Which of the three Orientation axes (X, Y or Z) is "up" for the object. The object's base will be perpendicular to this axis.

# **Auto Axis**

Rather than using the Orientation axis indicated by Plane Axis, use the one that's closest to the viewport's viewing direction (when not hovering

#### **Base**

# Origin

How the base is defined.

## Edge:

The base is defined from one corner to the opposing corner.

#### Center:

The base is defined from the centerpoint to a corner.

# Aspect

Whether the base has a free or fixed aspect ratio.

# Free:

The width and depth of the base can be chosen independently.

## Fixed:

The width and depth of the base are forced to be equal.

# Height

## Origin

How the height is defined.

## Edge:

The base becomes the bottom, after which you define the top.

#### Center:

The base becomes the center, after which you define the top.

# Aspect

Whether the side of the bounding box has a free or fixed aspect ratio.

# Free:

The height can be chosen independently of the base.

## Fixed:

The height is forced to be equal to the largest side of the base.

#### **Subdivisions**

Influences how many vertices are used to define the sphere. At level 1 the icosphere is an icosahedron, a solid with 20 equilateral triangular faces. Each increase in the number of subdivisions splits each triangular face into four.

Note

Subdividing an icosphere raises the vertex count very quickly even with few iterations (10 times creates 5,242,880 triangles). Adding such a dense mesh is a sure way to cause the program to crash.

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