

3D PRINTING & PARAMETRIC DESIGN

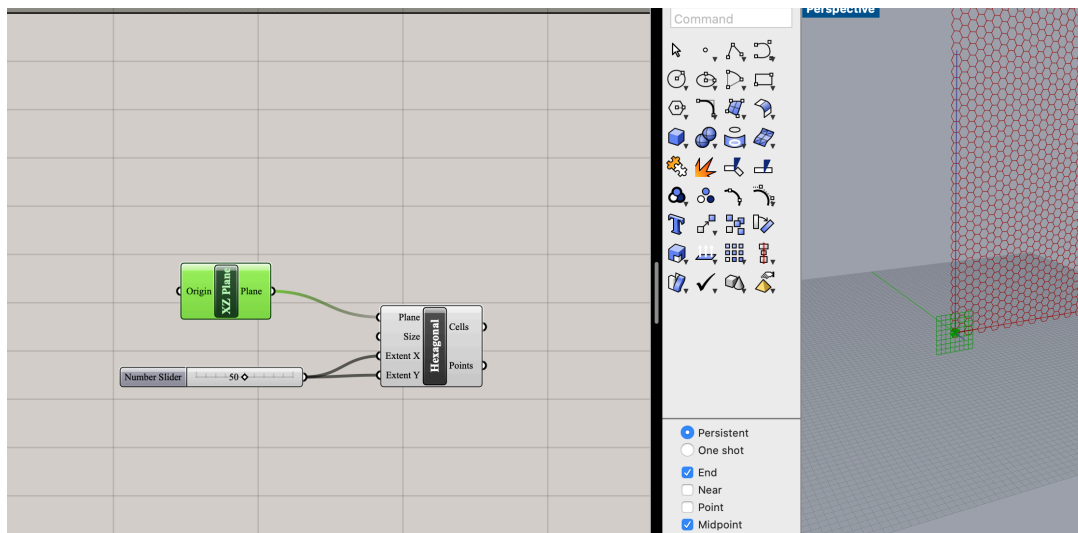
LWHS - 2022-2023

****Submit Documentation of each tutorial on your google site, include:
Screenshots and one sentence about your thoughts on each tutorial ****

Tessellations

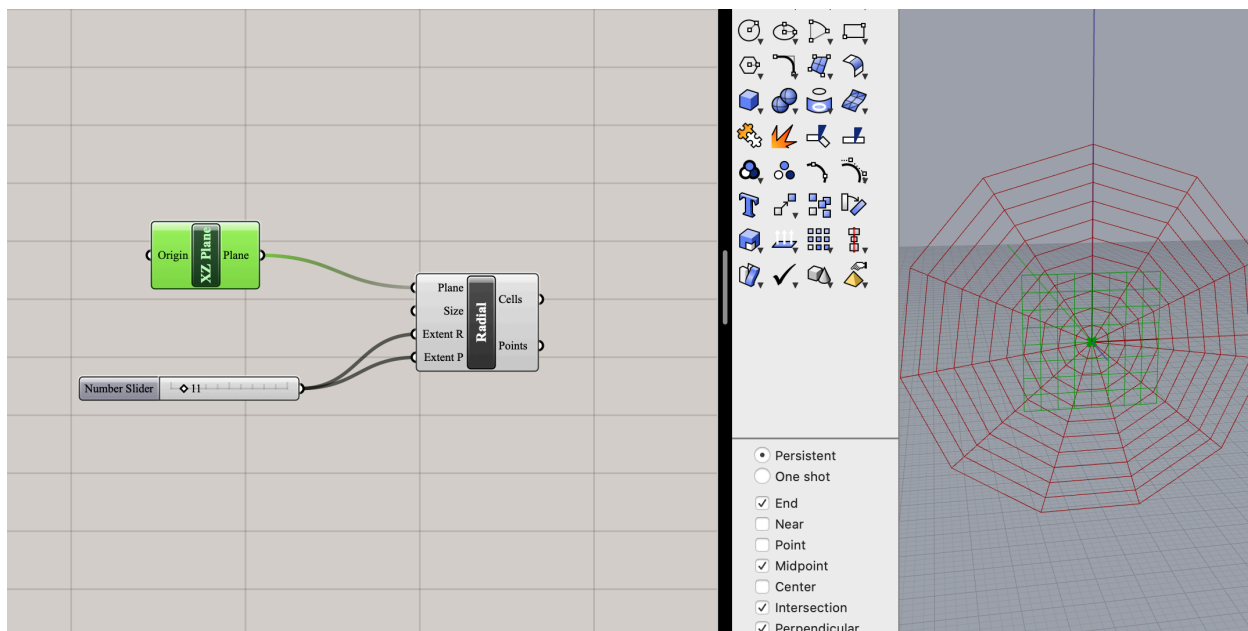
Using the Hexagonal Component

- 1) Drop in a **XZ plane** component
- 2) Drop in a **Hexagonal component** (Vector tab, grid panel)
- 3) Connect the “**Plane**” output of **XZ plane** to the “**Plane**” input of the **Hexagonal Component**
- 4) Drop in a **slider (Values: 1 minimum, 50+ maximum)** connect it to both the “**Extend X**” and “**Extend Y**” of the **inputs** of the **Hexagonal component**



Using the Radial Component

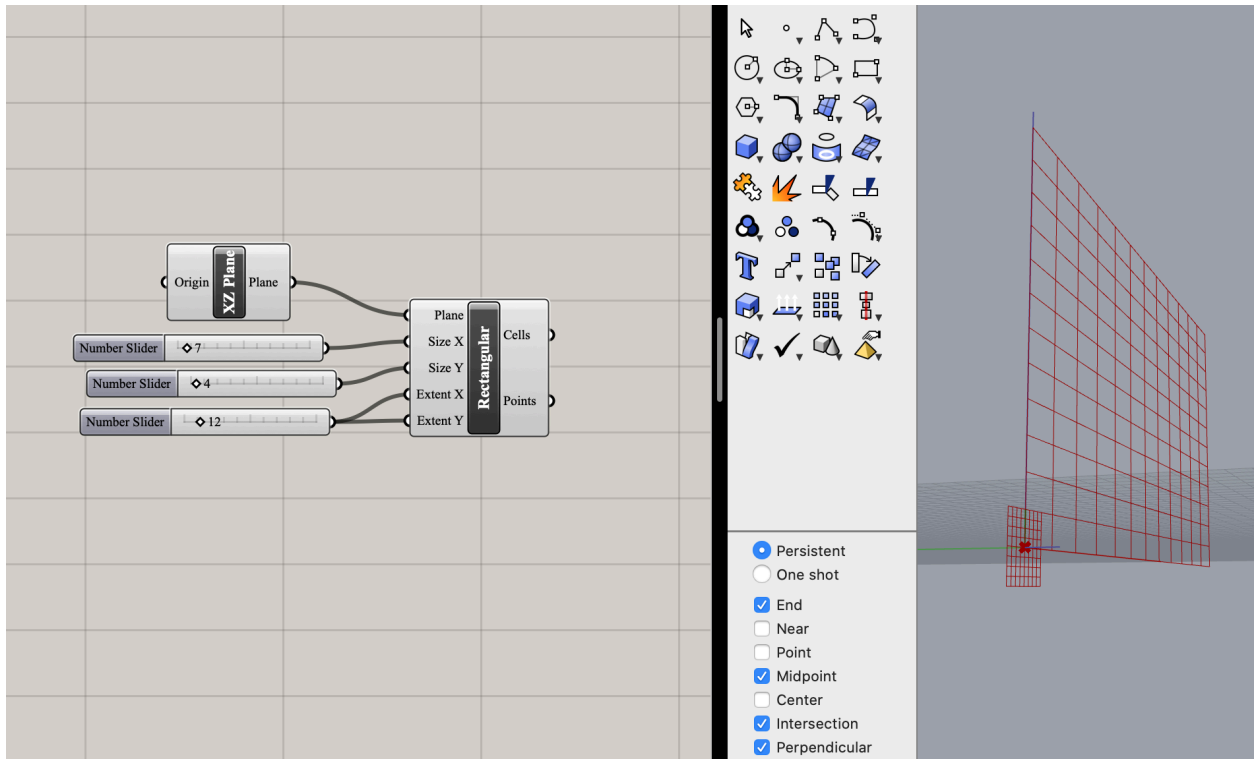
- 1) Drop in a **XZ plane** component
- 2) Drop in a **Radial component** (Vector tab, grid panel)
- 3) Connect the “**Plane**” output of **XZ plane** to the “**Plane**” input of the **Radial component**
- 4) Drop in a **slider (Values: 1 minimum, 50+ maximum)** connect it to both the “**Extend R**” and “**Extend P**” of the **inputs** of the **Radial component**



Using the Rectangular Component

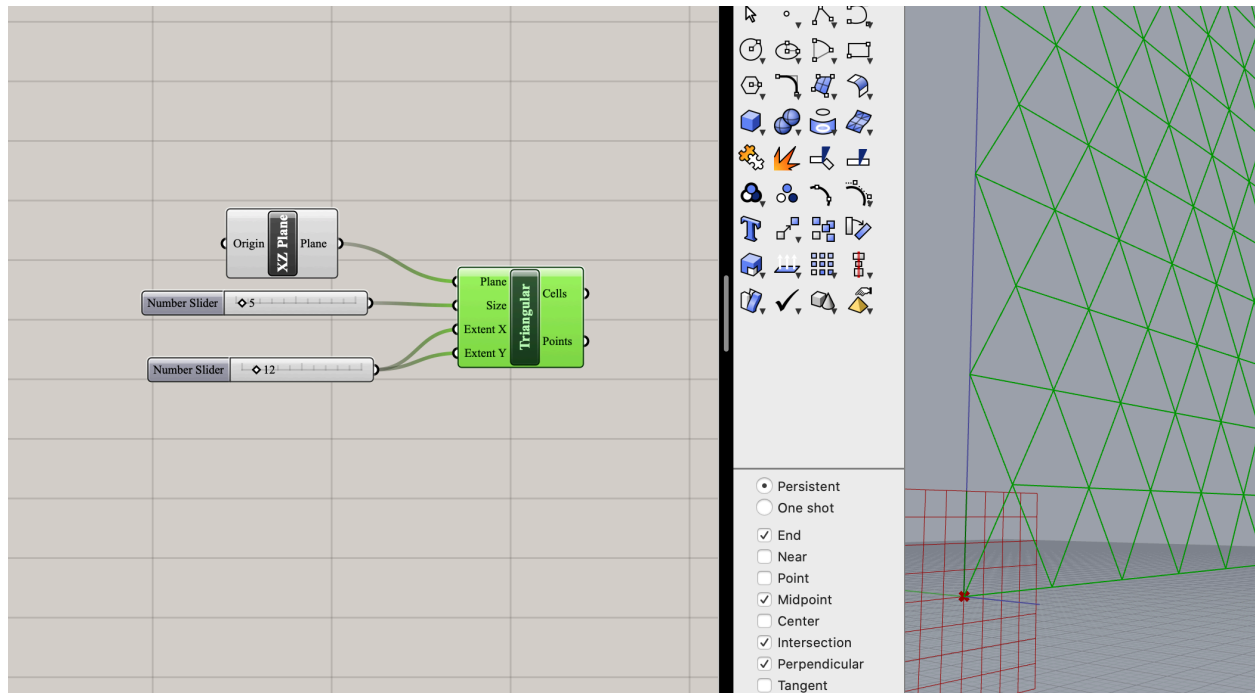
- 1) Drop in a **XZ plane** component
- 2) Drop in a **Rectangular component** (Vector tab, grid panel)
- 3) Connect the “**Plane**” output of **XZ plane** to the “**Plane**” input of the **Rectangular component**
- 4) Drop in a **slider (Values: 1 minimum, 50+ maximum)** connect it to both the “**Extend X**” and “**Extend Y**” of the **inputs** of the **Rectangular component**

- Drop in two sliders of 10. Connect one to the “**Size X**” input of the Rectangular component and the other to the “**Size Y**” input of the Rectangular Component



Using the Triangular Component

- Drop in a **XZ plane** component
- Drop in a **Triangular component** (Vector tab, grid panel)
- Connect the “**Plane**” output of **XZ plane** to the “**Plane**” input of the **Triangular component**
- Drop in a **slider (Values: 1 minimum, 50+ maximum)** connect it to both the “**Extend X**” and “**Extend Y**” of the **inputs** of the **Triangular component**
- Drop in a **slider (Values: 1 minimum, 50+ maximum)** connect it to the “**Size**” input of the **Triangular component**



Create your own design using the components above and from previous tutorials.