



### What is our GOAL for this MODULE?

The goal of this module is to write our own custom components in A-Frame.

# What did we ACHIEVE in the class TODAY?

- We learned about the Entity Component System in A-Frame
- We learned how to register custom components in A-Frame

## Which CONCEPTS/CODING BLOCKS did we cover today?

- Used AFRAME.registerComponent (name, definition)
- Used <a-entity>,<a-box> tags



#### How did we DO the activities?

1. We learned to include the Box.js in index.html before the <a-scene>

2. We learned how to register a component, to update the position in the x-direction.

```
// Registering component in box-component.js

AFRAME.registerComponent("move-box", {
    schema: {
    moveX: { type: "number", default: 1 },
    }
});
```

3. We learned how to use the tick handle method.

```
// Registering component in box-component.js
AFRAME.registerComponent("move-box", {
    schema: {
        moveX: { type: "number", default: 1 },
    },
    tick: function () {
        this.data.moveX = this.data.moveX + 0.01;
    }
});
```



4. We learned how to update the value of the position attribute of the entity.

```
// Registering component in box-component.js
AFRAME.registerComponent("move-box", {
    schema: {
        moveX: { type: "number", default: 1 },
    },

    tick: function () {
        this.data.moveX = this.data.moveX + 0.01;

        var pos = this.el.getAttribute("position");

        pos.x = this.data.moveX;

        this.el.setAttribute("position", {x: pos.x, y: pos.y, z: pos.z});
    }
});
```

5. We learned how to attach the component to the entity.

```
<a-entity position="0 0 0" move-box>
<a-box>
</a-box>
</a-entity>
```

We have successfully written our own custom component.

#### What's NEXT?

In the next class, we will be learning more about A-Frame components and event handlers in javascript.

## **EXTEND YOUR KNOWLEDGE:**

You can refer to the below link to explore more about creating components <a href="https://aframe.io/docs/1.1.0/introduction/writing-a-component.html">https://aframe.io/docs/1.1.0/introduction/writing-a-component.html</a>

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