### ImpactJS Presentation

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## Why ImpactJS?

- ► Collision handling
- Camera pluginss
- Map Editor
- Player Physics
- Strong OOP Design

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- ▶ object : person = { name: David, Age: 23 }
- undefined : typeof person === undefined
- ▶ null : var x = null

### JavaScript Objects

```
var person = {
  name: David,
  age: 23,
  major: Computer Science
};

person.name; // David
person.age; // 23
person.major; // Computer Science
```

#### Init Function

```
init: function(){
   // Init function is only run once
   ig.input.bind( ig.KEY.LEFT_ARROW, 'left');
   ig.input.bind( ig.KEY.RIGHT_ARROW, 'right');
   ig.input.bind( ig.KEY.X, 'jump');
}
```

### **Update Function**

```
update: function(){
   // update is run once per frame
   if( typeof player === undefined ){
     var player = this.getEntitiesByType(EntityPlayer)[0];
     this.screen.x = player.pos.x - ig.system.width/2;
     this.screen.y = player.pos.y - ig.system.height/2;
   }
}
```

### **Draw Function**

```
draw: function(){
  this.parent();
  if(this.font){
    var player = this.getEntitiesByType(EntityPlayer)[0];
    this.font.draw('Health: ' + player.health, 50, 10, ig.
        Font.ALIGN.CENTER);
}
```