Human GPU #0006 - Buffer + attribute pr0 l337

Multiple attribute can read from the same buffer, like in this example.

You see that each attribute now has the `offset` property, means that will start reading from the buffer at index + offset.

(To help you out human, i've formatted the buffer so that it's easier for you to read)

Together with `offset`, attributes have other property like:

- type (in our exericises, we'll just use `gl.FLOAT`)
- normalized (true/false)
- stride

To be honest, it's bit rare for us GPU to see offset/stride used out in the while.

Most of the time, one buffer is "linked" to one attribute. So don't worry too much.

Buffer too can have different property, like:

- bind target (ARRAY_BUFFER or ELEMENT_ARRAY_BUFFER)
- usage (like STATIC_DRAW, DYNAMIC_DRAW)

Heya human, by now you should well understand how the relationship between buffer and attributes works.

Can you draw a triangle for me?

```
Attributes

{
    "position": { "buffer": "buffer1", "size": 2, "offset": 0 },
    "offset": { "buffer": "buffer1", "size": 1, "offset": 6 },
    "scale": { "buffer": "buffer1", "size": 1, "offset": 9 }
}
```

Vertex shader

```
attribute vec2 position;
attribute vec2 offset;
attribute float scale;

void main() {
   vec2 p = vec2(position);
   p += offset;
   p *= scale;

   gl_Position = vec4(p, 0.0, 1.0);
}
```

