

06/04/24
Wearable
Coding

Fixing the Negative Heading

In some of the heading graphs, we see a negative heading. This was a result of adding a corrective value from our GPS.

To Fix, we define a new method and do the following:

```
float fixHeading(float aHeading)
{
    if (aHeading < 0.0)
    {
        aHeading += 360.0;
    }
    else if (aHeading >= 360.0)
    {
        aHeading -= 360.0;
    }
    return aHeading;
}
```

Example use case:

currentHeading = getHeading() - averageGPSerror;
currentHeading = fixHeading(currentHeading);

This will ensure "currentHeading" is between 0 and 359.