

# NEW HEX-R1

```
let filler = ""
let zaxis = ""
let yaxis = ""
let xaxis = ""
let axisstrlensub = 0
let axisstrlen = 0
let axisstr = ""
let axis = 0
let timestrlensub = 0
let timestrlen = 0
let timestr = ""
let time = 0
serial.redirect(SerialPin.USB_TX, SerialPin.USB_RX,
BaudRate.BaudRate115200)
basic.forever(function on_forever() {

    basic.pause(100)
    time = control.millis()
    timestr = convertToText(time)
    timestrlen = timestr.length
    timestrlensub = 7 - timestrlen
    let index = 0
    while (index <= timestrlensub) {
        timestr = "" + timestr + " "
        index += 1
    }
    axis = input.acceleration(Dimension.X)
    axisstr = convertToText(axis)
    axisstrlen = axisstr.length
    axisstrlensub = 7 - axisstrlen
    let index2 = 0
    while (index2 <= axisstrlensub) {
        axisstr = "" + axisstr + " "
        index2 += 1
    }
    xaxis = axisstr
    axis = input.acceleration(Dimension.Y)
    axisstr = convertToText(axis)
    axisstrlen = axisstr.length
    axisstrlensub = 7 - axisstrlen
    let index3 = 0
    while (index3 <= axisstrlensub) {
        axisstr = "" + axisstr + " "
        index3 += 1
    }
    yaxis = axisstr
    axis = input.acceleration(Dimension.Z)
```

```
axisstr = convertToText(axis)
axisstrlen = axisstr.length
axisstrlensub = 7 - axisstrlen
let index4 = 0
while (index4 <= axisstrlensub) {
    axisstr = "" + axisstr + " "
    index4 += 1
}
zaxis = axisstr
filler = "xxxxxxx"
serial.writeString(timestr)
serial.writeString(filler)
serial.writeString(filler)
serial.writeString(xaxis)
serial.writeString(xaxis)
serial.writeString(xaxis)
serial.writeString(yaxis)
serial.writeString(zaxis)
serial.writeLine("")
})
```

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## main.py

```

filler = ""
zaxis = ""
yaxis = ""
xaxis = ""
axisstrlensub = 0
axisstrlen = 0
axisstr = ""
axis = 0
timestrlensub = 0
timestrlen = 0
timestr = ""
time = 0
serial.redirect(SerialPin.USB_TX, SerialPin.USB_RX,
BaudRate.BAUD_RATE115200)

def on_forever():
    global time, timestr, timestrlen, timestrlensub, axis, axisstr,
axisstrlen, axisstrlensub, xaxis, yaxis, zaxis, filler
    basic.pause(100)
    time = control.millis()
    timestr = convert_to_text(time)
    timestrlen = len(timestr)
    timestrlensub = 7 - timestrlen
    index = 0
    while index <= timestrlensub:
        timestr = "" + timestr + " "
        index += 1
    axis = input.acceleration(Dimension.X)
    axisstr = convert_to_text(axis)
    axisstrlen = len(axisstr)
    axisstrlensub = 7 - axisstrlen
    index2 = 0
    while index2 <= axisstrlensub:
        axisstr = "" + axisstr + " "
        index2 += 1
    xaxis = axisstr
    axis = input.acceleration(Dimension.Y)
    axisstr = convert_to_text(axis)
    axisstrlen = len(axisstr)
    axisstrlensub = 7 - axisstrlen
    index3 = 0
    while index3 <= axisstrlensub:
        axisstr = "" + axisstr + " "
        index3 += 1
    yaxis = axisstr
    axis = input.acceleration(Dimension.Z)
    axisstr = convert_to_text(axis)
    axisstrlen = len(axisstr)

```

```
axisstrlen = 7 - axisstrlen
index4 = 0
while index4 <= axisstrlen:
    axisstr = "" + axisstr + " "
    index4 += 1
zaxis = axisstr
filler = "xxxxxxx"
serial.write_string(timestr)
serial.write_string(filler)
serial.write_string(filler)
serial.write_string(xaxis)
serial.write_string(xaxis)
serial.write_string(xaxis)
serial.write_string(yaxis)
serial.write_string(zaxis)
serial.write_line("")
basic.forever(on_forever)
```

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## Extensions

- radio, \*