

Maqueen Fernsteuerung

Programme

- Fernbedienung: https://makecode.microbit.org/_956WUaKY8gwH
- Fahrzeug: https://makecode.microbit.org/_Vtx7hbR0mMpq

Bedienung

- Button A: Beschleunigt Vorwärts
- Button B: Beschleunigt Rückwärts
- Button A+B: Stoppt
- Steuerung: Micro:bit wie ein Steuerrad halten und nach links oder rechts drehen.

Code

Fernbedienung

```
let right = 0
let left = 0
let steer = 0
let speed = 0
radio.setGroup(1)
let acceleration = 5
basic.forever(function () {
  if (input.buttonIsPressed(Button.AB)) {
    speed = 0
  } else if (input.buttonIsPressed(Button.A)) {
    speed = speed + acceleration
    speed = Math.min(speed, 255)
  } else if (input.buttonIsPressed(Button.B)) {
    speed = speed - acceleration
    speed = Math.max(speed, -255)
  }
  steer = input.acceleration(Dimension.X)
  steer = Math.floor(steer / 4)
  if (steer < 0) {
    steer = Math.max(-256, steer)
    left = Math.floor(speed * (128 + steer) / 256)
    right = speed
  } else {
    steer = Math.min(256, steer)
    left = speed
    right = Math.floor(speed * (128 - steer) / 256)
  }
  radio.sendValue("left", left)
  radio.sendValue("right", right)
})
```

```
})
```

Fahrzeug

```
radio.onReceivedValue(function (name, value) {
  if (name == "left") {
    left = value
  } else {
    right = value
  }
})
let right = 0
let left = 0
radio.setGroup(1)
basic.showIcon(IconNames.Angry)
basic.forever(function () {
  if (left == 0 && right == 0) {
    maqueen.motorStop(maqueen.Motors.All)
  } else {
    if (left >= 0) {
      maqueen.motorRun(maqueen.Motors.M1, maqueen.Dir.CW, left)
    } else {
      maqueen.motorRun(maqueen.Motors.M1, maqueen.Dir.CCW, 0 - left)
    }
    if (right >= 0) {
      maqueen.motorRun(maqueen.Motors.M2, maqueen.Dir.CW, right)
    } else {
      maqueen.motorRun(maqueen.Motors.M2, maqueen.Dir.CCW, 0 - right)
    }
  }
})
```

From:

<http://infl.ch/> - **Informatik am Alpenquai**

Permanent link:

<http://infl.ch/p/piy/steuerung>

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