

App-Inventor-2 Blocks zur Robot Car Neigungssteuerung über Android Smartphone

```

when Screen1.Initialize
do
  set UDPXmitter1.RemoteHost to get global targetIP
  set UDPXmitter1.RemotePort to 9000
  set MyIP.Text to join
    UDPXmitter1.LocalHost
    " "
    UDPXmitter1.LocalPort

```

```

when AccelerometerSensor1.AccelerationChanged
xAccel yAccel zAccel
do
  if MainSwitch.On
  then
    call procedure2
    x get xAccel
    set global xw to get global Result
    call procedure2
    x get yAccel
    set global yw to get global Result
    set lblVelo.Text to get global yw
    set lblDir.Text to get global xw
    if get global xw ≠ get global xwOld
    then
      set global yw to get global yw
      call UDPXmitter1.XmitAsync
      Message join "v"
      get global yw
      "\n"
    if get global xw ≠ get global xwOld
    then
      set global xwOld to get global xw
      call UDPXmitter1.XmitAsync
      Message join "d"
      get global xw
      "\n"

```

```

to procedure2 x
do
  initialize local wert to 0
  initialize local in to get x
  initialize local vz to 0
  initialize local faktor to 1
  in
  if get in ≠ 0
  then
    set vz to -1 × get in / absolute get in
  else
    set vz to 0
  set wert to get vz × floor
  + get global VeloFaktor × absolute get in + 0.5
  set global Result to if absolute get wert ≥ 2
  then get wert
  else 0

```

```

initialize global targetIP to "10.0.1.10"
initialize global xw to 0
initialize global xwOld to 0
initialize global yw to 0
initialize global ywOld to 0
initialize global Result to 0
initialize global VeloMax to 10
initialize global VeloFaktor to floor
15 / 9 + 0.5

```

```

when btnLight.Click
do
  call UDPXmitter1.XmitAsync
  Message "l:\n"

when btnMotor.Click
do
  call UDPXmitter1.XmitAsync
  Message "m:\n"

```

```

when spinIPAuswahl.AfterSelecting
selection
do
  initialize local IPselected to get selection
  in
  if get IPselected = "default"
  then
    set global targetIP to "10.0.1.10"
  else
    set global targetIP to get IPselected
  set txtFreeIP.Text to get global targetIP
  set UDPXmitter1.RemoteHost to get global targetIP
  set UDPXmitter1.RemotePort to 9000

```

```

when sldVeloMax.PositionChanged
thumbPosition
do
  set global VeloMax to get thumbPosition
  set lblVeloMax.Text to floor
  + get global VeloMax + 0.5
  set global VeloFaktor to get global VeloMax / 9

```