

```
[
  {
    "id": "cfadelef.f8df4",
    "type": "tab",
    "label": "Flow 1",
    "disabled": true,
    "info": ""
  },
  {
    "id": "d6cf2199.ba7b18",
    "type": "tab",
    "label": "Flow 3",
    "disabled": true,
    "info": ""
  },
  {
    "id": "5cbb69fc.83045",
    "type": "tab",
    "label": "Flow 4",
    "disabled": true,
    "info": ""
  },
  {
    "id": "e7190b91.8fb258",
    "type": "tab",
    "label": "Flow 2",
    "disabled": true,
    "info": ""
  },
  {
    "id": "8e4cc014.cf90b",
    "type": "tab",
    "label": "looping functions",
    "disabled": true,
    "info": "These flows get temp, and killCount at regular \nintervals. and
update the interface when they do."
  },
  {
    "id": "5ed46ee9.09a338",
    "type": "tab",
    "label": "Main + Dashboard",
    "disabled": false,
    "info": ""
  },
  {
    "id": "ab91d50e.2ef678",
    "type": "serial-port",
    "z": "",
    "serialport": "/dev/ttyACM0",
    "serialbaud": "9600",
    "databits": "8",
    "parity": "none",
    "stopbits": "1",
    "newline": "\r\n",
    "bin": "false",
    "out": "char",
    "addchar": true
  },
  {
    "id": "90eb205.8e55ee",
    "type": "ui_base",
    "theme": {
      "name": "theme-dark",
      "lightTheme": {
        "default": "#0094CE",
        "baseColor": "#0094CE",

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    "baseFont": "-apple-system,BlinkMacSystemFont,Segoe UI,Roboto,Oxygen-Sans,Ubuntu,Cantarell,Helvetica Neue,sans-serif",
    "edited": true,
    "reset": false
  },
  "darkTheme": {
    "default": "#097479",
    "baseColor": "#097479",
    "baseFont": "-apple-system,BlinkMacSystemFont,Segoe UI,Roboto,Oxygen-Sans,Ubuntu,Cantarell,Helvetica Neue,sans-serif",
    "edited": true,
    "reset": false
  },
  "customTheme": {
    "name": "Untitled Theme 1",
    "default": "#4B7930",
    "baseColor": "#4B7930",
    "baseFont": "-apple-system,BlinkMacSystemFont,Segoe UI,Roboto,Oxygen-Sans,Ubuntu,Cantarell,Helvetica Neue,sans-serif"
  },
  "themeState": {
    "base-color": {
      "default": "#097479",
      "value": "#097479",
      "edited": false
    },
    "page-titlebar-backgroundColor": {
      "value": "#097479",
      "edited": false
    },
    "page-backgroundColor": {
      "value": "#111111",
      "edited": false
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    "page-sidebar-backgroundColor": {
      "value": "#000000",
      "edited": false
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    "group-textColor": {
      "value": "#0eb8c0",
      "edited": false
    },
    "group-borderColor": {
      "value": "#555555",
      "edited": false
    },
    "group-backgroundColor": {
      "value": "#333333",
      "edited": false
    },
    "widget-textColor": {
      "value": "#eeeeee",
      "edited": false
    },
    "widget-backgroundColor": {
      "value": "#097479",
      "edited": false
    },
    "widget-borderColor": {
      "value": "#333333",
      "edited": false
    },
    "base-font": {
      "value": "-apple-system,BlinkMacSystemFont,Segoe UI,Roboto,Oxygen-Sans,Ubuntu,Cantarell,Helvetica Neue,sans-serif"
    }
  }
}
```

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    }
  },
  "site": {
    "name": "RatKill 2k",
    "hideToolbar": "false",
    "allowSwipe": "false",
    "dateFormat": "DD/MM/YYYY",
    "sizes": {
      "sx": 48,
      "sy": 48,
      "gx": 6,
      "gy": 6,
      "cx": 6,
      "cy": 6,
      "px": 0,
      "py": 0
    }
  }
},
{
  "id": "ale336f1.9b0cd",
  "type": "ui_tab",
  "z": "",
  "name": "Main controls",
  "icon": "dashboard",
  "order": 1
},
{
  "id": "9e8abde7.b42df8",
  "type": "ui_group",
  "z": "",
  "name": "Drep-o-meter",
  "tab": "ale336f1.9b0cd",
  "order": 1,
  "disp": true,
  "width": "6"
},
{
  "id": "65fbb1d0.cacf1",
  "type": "ui_group",
  "z": "",
  "name": "Temprature",
  "tab": "ale336f1.9b0cd",
  "order": 2,
  "disp": true,
  "width": "6"
},
{
  "id": "aea59b3a.de02a",
  "type": "ui_tab",
  "z": "",
  "name": "Advanced",
  "icon": "dashboard",
  "order": 2
},
{
  "id": "5331f199.b9ec28",
  "type": "ui_group",
  "z": "",
  "name": "Overrides",
  "tab": "aea59b3a.de02a",
  "order": 2,
  "disp": true,
  "width": "6"
},
{

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    "id": "b98dcf7b.9fb63",
    "type": "ui_group",
    "z": "",
    "name": "Kill settings",
    "tab": "aea59b3a.de02a",
    "order": 1,
    "disp": true,
    "width": "6"
  },
  {
    "id": "fbb8cb29.3b5f38",
    "type": "ui_group",
    "z": "",
    "name": "Camera",
    "tab": "ale336f1.9b0cd",
    "disp": true,
    "width": "6"
  },
  {
    "id": "ab33bd47.12f7c",
    "type": "ui_link",
    "z": "",
    "name": "Camera Feed",
    "link": "http://pi09.soc3001.net",
    "icon": "open_in_browser",
    "target": "newtab",
    "order": 3
  },
  {
    "id": "6cfa3f57.7fa6e8",
    "type": "debug",
    "z": "cfadelef.f8df4",
    "name": "",
    "active": true,
    "console": "false",
    "complete": "payload",
    "x": 410,
    "y": 60,
    "wires": []
  },
  {
    "id": "a22f4c27.d8e4f",
    "type": "udp in",
    "z": "cfadelef.f8df4",
    "name": "",
    "iface": "",
    "port": "9050",
    "ipv": "udp4",
    "multicast": "false",
    "group": "",
    "datatype": "utf8",
    "x": 80,
    "y": 60,
    "wires": [
      [
        "7a79418b.32faf8"
      ]
    ]
  },
  {
    "id": "7a79418b.32faf8",
    "type": "csv",
    "z": "cfadelef.f8df4",
    "name": "",
    "sep": ",",
    "hdrin": ""
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    "hdout": "",
    "multi": "one",
    "ret": "\n",
    "temp": "CMD,arg1,arg2,arg3",
    "x": 210,
    "y": 60,
    "wires": [
      [
        "3eb0b30d.776ddc"
      ]
    ]
  },
  {
    "id": "3eb0b30d.776ddc",
    "type": "switch",
    "z": "cfadelef.f8df4",
    "name": "",
    "property": "payload.CMD",
    "propertyType": "msg",
    "rules": [
      {
        "t": "eq",
        "v": "$LED",
        "vt": "str"
      }
    ],
    "checkall": "true",
    "outputs": 1,
    "x": 90,
    "y": 120,
    "wires": [
      [
        "97c42b3f.a7f138",
        "6cfa3f57.7fa6e8",
        "a2c0a03d.44ea38",
        "f212ff19.981438"
      ]
    ]
  },
  {
    "id": "97c42b3f.a7f138",
    "type": "change",
    "z": "cfadelef.f8df4",
    "name": "",
    "rules": [
      {
        "t": "set",
        "p": "payload",
        "pt": "msg",
        "to": "payload.arg1",
        "tot": "msg"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 290,
    "y": 120,
    "wires": [
      [
        "275895b.2513b6a"
      ]
    ]
  },

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{
  "id": "275895b.2513b6a",
  "type": "rpi-gpio out",
  "z": "cfade1ef.f8df4",
  "name": "",
  "pin": "11",
  "set": "",
  "level": "0",
  "freq": "",
  "out": "out",
  "x": 480,
  "y": 120,
  "wires": []
},
{
  "id": "a2c0a03d.44ea38",
  "type": "change",
  "z": "cfade1ef.f8df4",
  "name": "",
  "rules": [
    {
      "t": "set",
      "p": "payload",
      "pt": "msg",
      "to": "payload.arg2",
      "tot": "msg"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 290,
  "y": 160,
  "wires": [
    [
      "b6da58cb.325e18"
    ]
  ]
},
{
  "id": "b6da58cb.325e18",
  "type": "rpi-gpio out",
  "z": "cfade1ef.f8df4",
  "name": "",
  "pin": "13",
  "set": "",
  "level": "0",
  "freq": "",
  "out": "out",
  "x": 480,
  "y": 160,
  "wires": []
},
{
  "id": "f212ff19.981438",
  "type": "change",
  "z": "cfade1ef.f8df4",
  "name": "",
  "rules": [
    {
      "t": "set",
      "p": "payload",
      "pt": "msg",
      "to": "payload.arg3",

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```

        "tot": "msg"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 290,
    "y": 200,
    "wires": [
      [
        "33a32ec7.4d5f3a"
      ]
    ]
  },
  {
    "id": "33a32ec7.4d5f3a",
    "type": "rpi-gpio out",
    "z": "cfadelef.f8df4",
    "name": "",
    "pin": "15",
    "set": "",
    "level": "0",
    "freq": "",
    "out": "out",
    "x": 480,
    "y": 200,
    "wires": []
  },
  {
    "id": "34dfa220.39eae6",
    "type": "csv",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "sep": ",",
    "hdrin": "",
    "hdrout": "",
    "multi": "one",
    "ret": "\\n",
    "temp": "CMD,arg1,arg2,arg3",
    "x": 236,
    "y": 140,
    "wires": [
      [
        "8c812561.00896"
      ]
    ]
  },
  {
    "id": "8c812561.00896",
    "type": "switch",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "property": "payload.CMD",
    "propertyType": "msg",
    "rules": [
      {
        "t": "eq",
        "v": "$LED",
        "vt": "str"
      }
    ]
  },
  ],
  "checkall": "true",
  "outputs": 1,
  "x": 90,

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```
    "y": 280,
    "wires": [
      [
        "6a22eaac.a5bc44",
        "f8fac617.ac01a8",
        "482344f5.31701c"
      ]
    ]
  },
  {
    "id": "6a22eaac.a5bc44",
    "type": "change",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "rules": [
      {
        "t": "set",
        "p": "payload",
        "pt": "msg",
        "to": "payload.arg1",
        "tot": "msg"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 281,
    "y": 220,
    "wires": [
      [
        "1013579c.03718"
      ]
    ]
  },
  {
    "id": "f8fac617.ac01a8",
    "type": "change",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "rules": [
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        "t": "set",
        "p": "payload",
        "pt": "msg",
        "to": "payload.arg2",
        "tot": "msg"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 281,
    "y": 280,
    "wires": [
      [
        "4e81fdec.bc58ac"
      ]
    ]
  },
  {
    "id": "482344f5.31701c",
    "type": "change",
```



```
    "z": "d6cf2199.ba7b18",
    "name": "",
    "rules": [
      {
        "t": "set",
        "p": "payload",
        "pt": "msg",
        "to": "payload.arg3",
        "tot": "msg"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 281,
    "y": 340,
    "wires": [
      [
        "149118df.064ebf"
      ]
    ]
  },
  {
    "id": "d58bb1aa.b8ad78",
    "type": "udp in",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "iface": "",
    "port": "9050",
    "ipv": "udp4",
    "multicast": "false",
    "group": "",
    "datatype": "utf8",
    "x": 83,
    "y": 140,
    "wires": [
      [
        "34dfa220.39eae6"
      ]
    ]
  },
  {
    "id": "1013579c.03718",
    "type": "rpi-gpio out",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "pin": "11",
    "set": "",
    "level": "0",
    "freq": "",
    "out": "out",
    "x": 471,
    "y": 220,
    "wires": []
  },
  {
    "id": "4e81fdec.bc58ac",
    "type": "rpi-gpio out",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "pin": "13",
    "set": "",
    "level": "0",
    "freq": "",
```

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    "out": "out",
    "x": 471,
    "y": 280,
    "wires": []
  },
  {
    "id": "149118df.064ebf",
    "type": "rpi-gpio out",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "pin": "15",
    "set": "",
    "level": "0",
    "freq": "",
    "out": "out",
    "x": 471,
    "y": 340,
    "wires": []
  },
  {
    "id": "f50dc4c6.bd54b8",
    "type": "function",
    "z": "d6cf2199.ba7b18",
    "name": "mk csv $SW,,,",
    "func": "var SW0 =context.get('SW0') || 0;\nvar SW1 = context.get('SW1') ||\n0;\nvar SW2 = context.get('SW2') || 0;\n\nif(msg.topic==\"pi/12\")\n{\n  SW0=1-SW0;\n  context.set('SW0', SW0);\n}\nif(msg.topic==\"pi/16\")\n{\n  SW1=1-SW1;\n  context.set('SW1', SW1);\n}\nif(msg.topic==\"pi/18\")\n{\n  SW2=1-SW2;\n  context.set('SW2', SW2);\n}\n\nmsg.payload=\"$LED,\"+SW0+\",,\"+SW1+\",,\"+SW2;\n\nreturn msg;\n\n",
    "outputs": 1,
    "noerr": 0,
    "x": 280,
    "y": 440,
    "wires": [
      [
        "835574f5.09571",
        "5ca6f4ea.556a2c"
      ]
    ]
  },
  {
    "id": "835574f5.09571",
    "type": "debug",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "active": true,
    "console": "false",
    "complete": "false",
    "x": 490,
    "y": 440,
    "wires": []
  },
  {
    "id": "5ca6f4ea.556a2c",
    "type": "udp out",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "addr": "127.0.0.1",
    "iface": "",
    "port": "9050",
    "ipv": "udp4",
    "outport": "",
    "base64": false,
    "multicast": "false",
    "x": 520,

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```
    "y": 480,
    "wires": []
  },
  {
    "id": "24cf5ba8.97026c",
    "type": "rpi-gpio in",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "pin": "12",
    "intype": "tri",
    "debounce": "25",
    "read": true,
    "x": 70,
    "y": 380,
    "wires": [
      [
        "f50dc4c6.bd54b8"
      ]
    ]
  },
  {
    "id": "98454539.48bb38",
    "type": "rpi-gpio in",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "pin": "16",
    "intype": "tri",
    "debounce": "25",
    "read": true,
    "x": 70,
    "y": 440,
    "wires": [
      [
        "f50dc4c6.bd54b8"
      ]
    ]
  },
  {
    "id": "cc562856.38d6d8",
    "type": "rpi-gpio in",
    "z": "d6cf2199.ba7b18",
    "name": "",
    "pin": "18",
    "intype": "tri",
    "debounce": "25",
    "read": true,
    "x": 70,
    "y": 500,
    "wires": [
      [
        "f50dc4c6.bd54b8"
      ]
    ]
  },
  {
    "id": "6605bee.bb5cbc",
    "type": "inject",
    "z": "5cbb69fc.83045",
    "name": "",
    "topic": "Voltage",
    "payload": "$VOLTAGE,1.023",
    "payloadType": "str",
    "repeat": "",
    "crontab": "",
    "once": false,
    "x": 160,
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```
    "y": 80,
    "wires": [
      [
        "26cfaa6a.768326"
      ]
    ]
  },
  {
    "id": "26cfaa6a.768326",
    "type": "csv",
    "z": "5cbb69fc.83045",
    "name": "",
    "sep": ",",
    "hdrin": "",
    "hdrout": "",
    "multi": "one",
    "ret": "\\n",
    "temp": "CMD,voltage",
    "x": 290,
    "y": 160,
    "wires": [
      [
        "5ae6d9c1.497738",
        "2025e2f.72bd71e"
      ]
    ]
  },
  {
    "id": "5ae6d9c1.497738",
    "type": "debug",
    "z": "5cbb69fc.83045",
    "name": "",
    "active": true,
    "console": "false",
    "complete": "payload",
    "x": 470,
    "y": 160,
    "wires": []
  },
  {
    "id": "754b883c.78948",
    "type": "serial in",
    "z": "5cbb69fc.83045",
    "name": "",
    "serial": "ab91d50e.2ef678",
    "x": 90,
    "y": 160,
    "wires": [
      [
        "26cfaa6a.768326"
      ]
    ]
  },
  {
    "id": "2025e2f.72bd71e",
    "type": "wiotp out",
    "z": "5cbb69fc.83045",
    "authType": "d",
    "qs": "true",
    "qsDeviceId": "2025e2f.72bd71e",
    "deviceKey": "",
    "deviceType": "",
    "deviceId": "",
    "event": "event",
    "format": "json",
    "qos": "",
```

```
    "name": "",
    "x": 440,
    "y": 106,
    "wires": []
  },
  {
    "id": "ae3735cb.c3ed8",
    "type": "serial in",
    "z": "e7190b91.8fb258",
    "name": "",
    "serial": "ab91d50e.2ef678",
    "x": 90,
    "y": 80,
    "wires": [
      [
        "ed7a9c41.b8d98",
        "1426c722.2446e1"
      ]
    ]
  },
  {
    "id": "ed7a9c41.b8d98",
    "type": "udp out",
    "z": "e7190b91.8fb258",
    "name": "",
    "addr": "128.39.113.37",
    "iface": "",
    "port": "9050",
    "ipv": "udp4",
    "outport": "",
    "base64": false,
    "multicast": "false",
    "x": 331,
    "y": 79,
    "wires": []
  },
  {
    "id": "1426c722.2446e1",
    "type": "debug",
    "z": "e7190b91.8fb258",
    "name": "",
    "active": false,
    "console": "false",
    "complete": "payload",
    "x": 290,
    "y": 120,
    "wires": []
  },
  {
    "id": "490c4083.3aea18",
    "type": "inject",
    "z": "8e4cc014.cf90b",
    "name": "",
    "topic": "",
    "payload": "getTemp",
    "payloadType": "str",
    "repeat": "3",
    "crontab": "",
    "once": true,
    "x": 193,
    "y": 180,
    "wires": [
      [
        "b0875814.2a405"
      ]
    ]
  }
]
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    },
    {
      "id": "b0875814.2a405",
      "type": "serial out",
      "z": "8e4cc014.cf90b",
      "name": "",
      "serial": "ab91d50e.2ef678",
      "x": 588,
      "y": 208,
      "wires": []
    },
    {
      "id": "8643b91d.f5ffe8",
      "type": "inject",
      "z": "8e4cc014.cf90b",
      "name": "",
      "topic": "",
      "payload": "killCount",
      "payloadType": "str",
      "repeat": "1800",
      "crontab": "",
      "once": true,
      "x": 194,
      "y": 252,
      "wires": [
        [
          "aca1c8e9.d4e8b8"
        ]
      ]
    },
    {
      "id": "aca1c8e9.d4e8b8",
      "type": "delay",
      "z": "8e4cc014.cf90b",
      "name": "",
      "pauseType": "delay",
      "timeout": "1",
      "timeoutUnits": "seconds",
      "rate": "1",
      "nbRateUnits": "1",
      "rateUnits": "second",
      "randomFirst": "1",
      "randomLast": "5",
      "randomUnits": "seconds",
      "drop": false,
      "x": 337,
      "y": 252,
      "wires": [
        [
          "b0875814.2a405"
        ]
      ]
    },
    {
      "id": "56231a87.05f89c",
      "type": "comment",
      "z": "8e4cc014.cf90b",
      "name": "Dont fill the serial bus",
      "info": "this delay make sure the serial port isn't filled \nwith a jumble of strings when the flow starts.",
      "x": 267,
      "y": 285,
      "wires": []
    },
    {
      "id": "23e6672e.9dda9",

```

```

    "type": "serial in",
    "z": "5ed46ee9.09a338",
    "name": "",
    "serial": "ab91d50e.2ef678",
    "x": 224.99996948242188,
    "y": 939,
    "wires": [
      [
        "6625f444.1ce76c",
        "22719e8e.f07962",
        "cc70dd1a.3dbaa8"
      ]
    ]
  },
  {
    "id": "5e4eb05c.7c99e",
    "type": "switch",
    "z": "5ed46ee9.09a338",
    "name": "message filter",
    "property": "payload.CMD",
    "propertyType": "msg",
    "rules": [
      {
        "t": "eq",
        "v": "temp",
        "vt": "str"
      },
      {
        "t": "eq",
        "v": "killCount",
        "vt": "str"
      },
      {
        "t": "eq",
        "v": "killRead",
        "vt": "str"
      },
      {
        "t": "eq",
        "v": "nope",
        "vt": "str"
      }
    ],
    "checkall": "true",
    "outputs": 4,
    "x": 568.9999694824219,
    "y": 939,
    "wires": [
      [
        "ae260fe.51ba1f",
        "47255743.92a4f"
      ],
      [
        "fc5ce44.168d298",
        "388500f6.5ca048"
      ],
      [
        "35bd99a4.172326"
      ],
      []
    ]
  },
  {
    "id": "6625f444.1ce76c",
    "type": "csv",
    "z": "5ed46ee9.09a338",

```

```

    "name": "",
    "sep": ",",
    "hdrin": "",
    "hdrout": "",
    "multi": "one",
    "ret": "\n",
    "temp": "CMD,arg1,arg2",
    "x": 398.9999694824219,
    "y": 939,
    "wires": [
      [
        "5e4eb05c.7c99e",
        "8c51608.329722",
        "804046cc.c53818"
      ]
    ]
  },
  {
    "id": "22719e8e.f07962",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "Serial Raw",
    "active": true,
    "console": "false",
    "complete": "payload",
    "x": 380.9999694824219,
    "y": 1037,
    "wires": []
  },
  {
    "id": "a3594407.d8f288",
    "type": "serial out",
    "z": "5ed46ee9.09a338",
    "name": "",
    "serial": "ab91d50e.2ef678",
    "x": 1278,
    "y": 377,
    "wires": []
  },
  {
    "id": "ba5f7f56.622e3",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "time to empty?",
    "func": "
    // initialise the counter to 0 if it doesn't exist already\n
    var count = context.get('count')||0;\n
    var dognGraderTeller = flow.get('dognGraderTeller')||0;\n
    //the time between samples of temp for tøm-o-meter.\n
    var samplePeriode=24; // i timer. \n\n
    if(msg.payload=="reset")\n
    {\n
      count=0;\n
      context.set('count',count);\n
      msg.payload=count;\n
      return msg;\n
    }\n
    // har det gått 1 sample periode?\n
    if( dognGraderTeller>samplePeriode )\n
    {\n
      dognGraderTeller=0;\n
      flow.set('dognGraderTeller',dognGraderTeller);\n
      \n
      if(msg.payload.arg1>0) // er temp mer enn 0?\n
      {\n
        count+=msg.payload.arg1;\n
        // store the value back\n
        context.set('count',count);\n
      }\n
      \n
      if(msg.payload.arg1>140)\n
      {\n
        count=140;\n
      }\n
      \n
      msg.payload = parseInt(count*10)/10;\n
      return msg;\n
    }",
    "outputs": "1",
    "noerr": 0,
    "x": 1002.9999694824219,
    "y": 822,
    "wires": [
      [
        "269889d.c03c876",
        "2211707f.c8daf"
      ]
    ]
  }
]

```



```

    },
    {
      "id": "324fe69f.6c91da",
      "type": "comment",
      "z": "5ed46ee9.09a338",
      "name": "Todo",
      "info": "- ~~make a dashboard~~\n- ~~get the kill duration and frequency from\nthe controller~~\n## dashboard\n- ~~temp shouldn't update tøm-o-meter~~\n- ~~reset\nshould clear #Drept in the tøm-o-meter~~\n- ~~fix the damn sliders for freq and\ndelay~~",
      "x": 1744,
      "y": 94,
      "wires": []
    },
    {
      "id": "fe56a60d.9d078",
      "type": "rpi-gpio out",
      "z": "5ed46ee9.09a338",
      "name": "Hard-Reset Nucleo",
      "pin": "3",
      "set": true,
      "level": "1",
      "freq": "",
      "out": "out",
      "x": 975,
      "y": 2060.0000915527344,
      "wires": []
    },
    {
      "id": "e5f3fdc4.b6cbc",
      "type": "comment",
      "z": "5ed46ee9.09a338",
      "name": "pulse 0 for reset. ",
      "info": "setting this to 0 will effectively turn the \ncontroler off, and it\nwill start when it's set \nback to 1.",
      "x": 695,
      "y": 1984.0000610351562,
      "wires": []
    },
    {
      "id": "66d0369f.3f56f",
      "type": "comment",
      "z": "5ed46ee9.09a338",
      "name": "Description",
      "info": "returns the value onec every samlePeriode.\nonly when there is a rat\ncaptured.\n\n### upgrades:\n- add the previous values prompted by the loop, but\nnot values grabbed by user. \n(the current itteration only grabbes samples of the\ntemp)\n\nit should:\nreturns the sum of the last few values(only positive\nnumbers)",
      "x": 1001.9999694824219,
      "y": 787,
      "wires": []
    },
    {
      "id": "269889d.c03c876",
      "type": "ui_gauge",
      "z": "5ed46ee9.09a338",
      "name": "Time to empty",
      "group": "9e8abde7.b42df8",
      "order": 1,
      "width": "6",
      "height": "6",
      "gtype": "gage",
      "title": "tøm-o-meter",
      "label": "døgnggrader",
      "format": "{{value}}",

```

```

    "min": 0,
    "max": "140",
    "colors": [
      "#00b500",
      "#e6e600",
      "#ca3838"
    ],
    "seg1": "",
    "seg2": "",
    "x": 1208.9999694824219,
    "y": 857,
    "wires": []
  },
  {
    "id": "f6d50fc0.d07d6",
    "type": "ui_button",
    "z": "5ed46ee9.09a338",
    "name": "Reset",
    "group": "9e8abde7.b42df8",
    "order": 2,
    "width": "2",
    "height": "1",
    "passthru": true,
    "label": "Reset/Tøm",
    "color": "",
    "bgcolor": "",
    "icon": "",
    "payload": "reset",
    "payloadType": "str",
    "topic": "",
    "x": 295.0000305175781,
    "y": 499.0000305175781,
    "wires": [
      [
        "ba5f7f56.622e3",
        "51e6c500.b3e6dc"
      ]
    ]
  },
  {
    "id": "8c51608.329722",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Only send temp if 1 rat captured",
    "func": "//var startDayCount = context.get('startDayCount')||0;\nvar killCount\n= context.get('killCount')||0;\n\nif(msg.payload.CMD==\"killCount\")\n{\n  killCount = msg.payload.arg1;\n  context.set('killCount',killCount);\n}\n\nif(killCount>0)\n{\n  if(msg.payload.CMD==\"temp\")\n  {\n    return\nmsg;\n  }\n}\n",
    "outputs": 1,
    "noerr": 0,
    "x": 651,
    "y": 840,
    "wires": [
      [
        "ba5f7f56.622e3",
        "eb9a0a65.a18228"
      ]
    ]
  },
  {
    "id": "804046cc.c53818",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "test1",
    "active": false,
  }
}

```

```

    "console": "false",
    "complete": "payload",
    "x": 540.7666015625,
    "y": 1129.7166748046875,
    "wires": []
  },
  {
    "id": "eb9a0a65.a18228",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "ONLY",
    "active": false,
    "console": "false",
    "complete": "payload",
    "x": 891.7665710449219,
    "y": 870.7166748046875,
    "wires": []
  },
  {
    "id": "ae260fe.51balf",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Filter arg 1",
    "func": "msg.payload=parseInt(msg.payload.arg1*10)/10.0;\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 856.7665710449219,
    "y": 920.1833801269531,
    "wires": [
      [
        "ad3e9a4a.81d6a"
      ]
    ]
  },
  {
    "id": "2a853783.160e4",
    "type": "ui_button",
    "z": "5ed46ee9.09a338",
    "name": "",
    "group": "5331f199.b9ec28",
    "order": 0,
    "width": 0,
    "height": 0,
    "passthru": false,
    "label": "Hardreset the microcontroller",
    "color": "",
    "bgcolor": "",
    "icon": "",
    "payload": "0",
    "payloadType": "num",
    "topic": "",
    "x": 354.7666931152344,
    "y": 2054.2333984375,
    "wires": [
      [
        "fe56a60d.9d078",
        "e4c0alec.4f79d"
      ]
    ]
  },
  {
    "id": "e4c0alec.4f79d",
    "type": "delay",
    "z": "5ed46ee9.09a338",
    "name": "",
    "pauseType": "delay",

```

```

    "timeout": "100",
    "timeoutUnits": "milliseconds",
    "rate": "1",
    "nbRateUnits": "1",
    "rateUnits": "second",
    "randomFirst": "1",
    "randomLast": "5",
    "randomUnits": "seconds",
    "drop": false,
    "x": 619.7666931152344,
    "y": 2027.6666870117188,
    "wires": [
      [
        "55b27c4d.38b6a4"
      ]
    ]
  },
  {
    "id": "55b27c4d.38b6a4",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Return 1",
    "func": "msg.payload=1;\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 767.7666625976562,
    "y": 2027.7000122070312,
    "wires": [
      [
        "fe56a60d.9d078"
      ]
    ]
  },
  {
    "id": "ad3e9a4a.81d6a",
    "type": "ui_gauge",
    "z": "5ed46ee9.09a338",
    "name": "temp",
    "group": "65fbb1d0.cacf1",
    "order": 0,
    "width": "6",
    "height": "6",
    "gtype": "gage",
    "title": "Temperature",
    "label": "°C",
    "format": "{{value}}",
    "min": "-30",
    "max": "30",
    "colors": [
      "#0000ff",
      "#80ffff",
      "#ca3838"
    ],
    "seg1": "-1",
    "seg2": "1",
    "x": 1055.7665710449219,
    "y": 875.566650390625,
    "wires": []
  },
  {
    "id": "9ad1d63e.65d648",
    "type": "inject",
    "z": "5ed46ee9.09a338",
    "name": "",
    "topic": "",
    "payload": "drep",

```

```
    "payloadType": "str",
    "repeat": "",
    "crontab": "",
    "once": false,
    "x": 837.7666015625,
    "y": 518.0167236328125,
    "wires": [
      [
        "51e6c500.b3e6dc"
      ]
    ]
  },
  {
    "id": "b3bf6770.5ede3",
    "type": "ui_text",
    "z": "5ed46ee9.09a338",
    "group": "9e8abde7.b42df8",
    "order": 3,
    "width": "2",
    "height": "1",
    "name": "antallDrept",
    "label": "#Drept",
    "format": "{{msg.payload}}",
    "layout": "col-center",
    "x": 1142.7665710449219,
    "y": 1008.3333129882812,
    "wires": []
  },
  {
    "id": "bffb6284.ed3b7",
    "type": "ui_button",
    "z": "5ed46ee9.09a338",
    "name": "",
    "group": "65fbb1d0.cacf1",
    "order": 0,
    "width": 0,
    "height": 0,
    "passthru": false,
    "label": "Hent temp",
    "color": "",
    "bgcolor": "",
    "icon": "",
    "payload": "getTemp",
    "payloadType": "str",
    "topic": "",
    "x": 301.7666320800781,
    "y": 462.23333740234375,
    "wires": [
      [
        "51e6c500.b3e6dc"
      ]
    ]
  },
  {
    "id": "5ec7d5b.62ed1ac",
    "type": "ui_button",
    "z": "5ed46ee9.09a338",
    "name": "",
    "group": "9e8abde7.b42df8",
    "order": 4,
    "width": "2",
    "height": "1",
    "passthru": true,
    "label": "Hent # drept",
    "color": "",
    "bgcolor": "",
```

```
    "icon": "",
    "payload": "killCount",
    "payloadType": "str",
    "topic": "",
    "x": 308.7666320800781,
    "y": 424.23333740234375,
    "wires": [
      [
        "51e6c500.b3e6dc"
      ]
    ]
  },
  {
    "id": "badb3bde.d154f8",
    "type": "ui_toast",
    "z": "5ed46ee9.09a338",
    "position": "top_right",
    "displayTime": "3",
    "highlight": "",
    "outputs": 0,
    "ok": "OK",
    "cancel": "",
    "topic": "",
    "name": "",
    "x": 1127.7665710449219,
    "y": 960.2666015625,
    "wires": []
  },
  {
    "id": "74efb8f1.b94e3",
    "type": "ui_slider",
    "z": "5ed46ee9.09a338",
    "name": "kill freq",
    "label": "Frekvens",
    "group": "b98dcf7b.9fb63",
    "order": 1,
    "width": 0,
    "height": 0,
    "passthru": true,
    "topic": "",
    "min": "10",
    "max": "300",
    "step": "1",
    "x": 968.7666015625,
    "y": 162.16665649414062,
    "wires": [
      [
        "8da0083a.cd1758"
      ]
    ]
  },
  {
    "id": "ada5f559.95076",
    "type": "ui_slider",
    "z": "5ed46ee9.09a338",
    "name": "",
    "label": "kill delay",
    "group": "b98dcf7b.9fb63",
    "order": 2,
    "width": 0,
    "height": 0,
    "passthru": true,
    "topic": "",
    "min": "1",
    "max": "10",
    "step": "1",
```

```
    "x": 969.7666015625,
    "y": 199.16665649414062,
    "wires": [
      [
        "c26b177.b6b03e8"
      ]
    ]
  },
  {
    "id": "7b49737a.ff06dc",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "killSend",
    "active": true,
    "console": "false",
    "complete": "payload",
    "x": 1320.7666015625,
    "y": 70.71664428710938,
    "wires": []
  },
  {
    "id": "f9567c27.6a6d68",
    "type": "ui_button",
    "z": "5ed46ee9.09a338",
    "name": "",
    "group": "b98dcf7b.9fb63",
    "order": 4,
    "width": "3",
    "height": "1",
    "passthru": false,
    "label": "Set to Kill",
    "color": "",
    "bgcolor": "",
    "icon": "",
    "payload": "kill,100,4",
    "payloadType": "str",
    "topic": "",
    "x": 304.7666320800781,
    "y": 263.23333740234375,
    "wires": [
      [
        "55937a2a.644f6c"
      ]
    ]
  },
  {
    "id": "593c0c98.36ee0c",
    "type": "ui_button",
    "z": "5ed46ee9.09a338",
    "name": "",
    "group": "b98dcf7b.9fb63",
    "order": 5,
    "width": "3",
    "height": "1",
    "passthru": true,
    "label": "Set to stun",
    "color": "",
    "bgcolor": "",
    "icon": "",
    "payload": "kill, 50, 2",
    "payloadType": "str",
    "topic": "",
    "x": 330.8833312988281,
    "y": 138.88333129882812,
    "wires": [
      [

```

```

        "dd507f6c.11c7c"
    ]
},
{
    "id": "dd507f6c.11c7c",
    "type": "csv",
    "z": "5ed46ee9.09a338",
    "name": "csv to obj",
    "sep": ",",
    "hdrin": "",
    "hdrout": "",
    "multi": "one",
    "ret": "\n",
    "temp": "CMD,arg1,arg2",
    "x": 522.7666320800781,
    "y": 138.5,
    "wires": [
        [
            "893180ad.a4834",
            "c6c4d6eb.dd8b88"
        ]
    ]
},
{
    "id": "893180ad.a4834",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Filter arg 1",
    "func": "msg.payload=msg.payload.arg1;\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 693.88330078125,
    "y": 121.88333129882812,
    "wires": [
        [
            "74efb8f1.b94e3"
        ]
    ]
},
{
    "id": "c6c4d6eb.dd8b88",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Filter arg 2",
    "func": "msg.payload=parseFloat(msg.payload.arg2);\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 697.88330078125,
    "y": 159.88333129882812,
    "wires": [
        [
            "ada5f559.95076",
            "7b49737a.ff06dc"
        ]
    ]
},
{
    "id": "55937a2a.644f6c",
    "type": "csv",
    "z": "5ed46ee9.09a338",
    "name": "csv to obj",
    "sep": ",",
    "hdrin": "",
    "hdrout": "",
    "multi": "one",

```



```

    "ret": "\n",
    "temp": "CMD,arg1,arg2",
    "x": 481.8833312988281,
    "y": 228.88333129882812,
    "wires": [
      [
        "1a242eff.60de79",
        "785aced2.16589"
      ]
    ]
  },
  {
    "id": "785aced2.16589",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Filter arg 2",
    "func": "msg.payload=msg.payload.arg2;\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 702,
    "y": 248.26666259765625,
    "wires": [
      [
        "ada5f559.95076",
        "7b49737a.ff06dc"
      ]
    ]
  },
  {
    "id": "1a242eff.60de79",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Filter arg 1",
    "func": "msg.payload=msg.payload.arg1;\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 698,
    "y": 210.26666259765625,
    "wires": [
      [
        "74efb8f1.b94e3"
      ]
    ]
  },
  {
    "id": "886f950d.1b38c8",
    "type": "ui_toast",
    "z": "5ed46ee9.09a338",
    "position": "top right",
    "displayTime": "3",
    "highlight": "",
    "outputs": 0,
    "ok": "OK",
    "cancel": "",
    "topic": "",
    "name": "Oppdatert #Drept",
    "x": 1164.8832702636719,
    "y": 1045.88330078125,
    "wires": []
  },
  {
    "id": "fc5ce44.168d298",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Filter arg 1",
    "func": "msg.payload=msg.payload.arg1;\nreturn msg;",

```

```
    "outputs": 1,
    "noerr": 0,
    "x": 866.7499694824219,
    "y": 1003.75,
    "wires": [
      [
        "b3bf6770.5ede3"
      ]
    ]
  },
  {
    "id": "51e6c500.b3e6dc",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "add \\r\\n",
    "func": "msg.payload = msg.payload + '\\r' + '\\n'\\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 1051.75,
    "y": 376.75,
    "wires": [
      [
        "a3594407.d8f288"
      ]
    ]
  },
  {
    "id": "2211707f.c8daf",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "time to empty?",
    "active": false,
    "console": "false",
    "complete": "payload",
    "x": 1208.9999694824219,
    "y": 822,
    "wires": []
  },
  {
    "id": "8da0083a.cd1758",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Save freq to Flow variable",
    "func": "flow.set('freq',parseInt(msg.payload));\\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 1287.36669921875,
    "y": 172,
    "wires": [
      [
        "3ccf0ad7.d903ce"
      ]
    ]
  },
  {
    "id": "c26b177.b6b03e8",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "Save duration to Flow variable",
    "func": "flow.set('duration',parseInt(msg.payload));\\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 1281.36669921875,
    "y": 213,
    "wires": [
      [
```

```
    "3ccf0ad7.d903ce"
  ]
},
{
  "id": "3ccf0ad7.d903ce",
  "type": "function",
  "z": "5ed46ee9.09a338",
  "name": "grab variables for freq and dur, from flow vars",
  "func": "msg.payload=\"kill,\" + flow.get('freq') + \",\" +
flow.get('duration');\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 1202.36669921875,
  "y": 301,
  "wires": [
    [
      "51e6c500.b3e6dc"
    ]
  ]
},
{
  "id": "14b5eb6b.fa336d",
  "type": "inject",
  "z": "5ed46ee9.09a338",
  "name": "Initalize",
  "topic": "",
  "payload": "kill,10,1",
  "payloadType": "str",
  "repeat": "",
  "crontab": "",
  "once": true,
  "x": 243.36669921875,
  "y": 57,
  "wires": [
    [
      "4d92acf6.2dcalc"
    ]
  ]
},
{
  "id": "10e93df9.0db6b2",
  "type": "inject",
  "z": "5ed46ee9.09a338",
  "name": "",
  "topic": "",
  "payload": "getTemp",
  "payloadType": "str",
  "repeat": "900",
  "crontab": "",
  "once": true,
  "x": 277.7499694824219,
  "y": 1387.75,
  "wires": [
    [
      "c3893b34.3f66e8",
      "8fa211f6.0eae28"
    ]
  ]
},
{
  "id": "6e89346f.07554c",
  "type": "serial out",
  "z": "5ed46ee9.09a338",
  "name": "",
  "serial": "ab91d50e.2ef678",
```

```

    "x": 672.7499694824219,
    "y": 1415.75,
    "wires": []
  },
  {
    "id": "7e9f703e.6d6888",
    "type": "inject",
    "z": "5ed46ee9.09a338",
    "name": "",
    "topic": "",
    "payload": "killCount",
    "payloadType": "str",
    "repeat": "",
    "crontab": "",
    "once": true,
    "x": 278.7499694824219,
    "y": 1459.75,
    "wires": [
      [
        "db6d0a90.0194b8"
      ]
    ]
  },
  {
    "id": "db6d0a90.0194b8",
    "type": "delay",
    "z": "5ed46ee9.09a338",
    "name": "",
    "pauseType": "delay",
    "timeout": "500",
    "timeoutUnits": "milliseconds",
    "rate": "1",
    "nbRateUnits": "1",
    "rateUnits": "second",
    "randomFirst": "1",
    "randomLast": "5",
    "randomUnits": "seconds",
    "drop": false,
    "x": 431.7499694824219,
    "y": 1459.75,
    "wires": [
      [
        "6e89346f.07554c"
      ]
    ]
  },
  {
    "id": "875fc3bc.bb33d8",
    "type": "comment",
    "z": "5ed46ee9.09a338",
    "name": "Dont fill the serial bus",
    "info": "this delay make sure the serial port isn't filled \nwith a jumble of
strings when the flow starts.",
    "x": 351.7499694824219,
    "y": 1492.75,
    "wires": []
  },
  {
    "id": "c3893b34.3f66e8",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "tell antall spørringer. ",
    "func": "// initialise the counter to 0 if it doesn't exist already\nvar
dognGraderTeller = flow.get('dognGraderTeller')||0;\n//var count =
context.get('count')||0;\n//flow.set('freq',parseInt(msg.payload));\n//
msg.payload=\"kill,\" + flow.get('freq') + \",\" + flow.get('duration');

```

```

\dognGraderTeller++;
\n\n\nflow.set('dognGraderTeller',dognGraderTeller);
\nreturn
msg;
{
  "outputs": 1,
  "noerr": 0,
  "x": 494.36663818359375,
  "y": 1349,
  "wires": [
    []
  ]
},
{
  "id": "8fa211f6.0eae28",
  "type": "function",
  "z": "5ed46ee9.09a338",
  "name": "add \r\n",
  "func": "msg.payload = msg.payload + '\r' + '\n'\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 474.7499694824219,
  "y": 1394.75,
  "wires": [
    [
      "6e89346f.07554c"
    ]
  ]
},
{
  "id": "e3b7479f.bf3f7",
  "type": "ui_toast",
  "z": "5ed46ee9.09a338",
  "position": "top_right",
  "displayTime": "3",
  "highlight": "",
  "outputs": 0,
  "ok": "OK",
  "cancel": "",
  "topic": "",
  "name": "",
  "x": 1164.3666687011719,
  "y": 1084.75,
  "wires": []
},
{
  "id": "35bd99a4.172326",
  "type": "function",
  "z": "5ed46ee9.09a338",
  "name": "Format notification",
  "func": "msg.topic=\"Frequency and duration.\"\\nmsg.payload= \"Frekvens:\" +
msg.payload.arg1.toString()+ \"Hz   Delay:\" + msg.payload.arg2.toString()+ \"s\";
\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 890.36669921875,
  "y": 1083,
  "wires": [
    [
      "e3b7479f.bf3f7"
    ]
  ]
},
{
  "id": "388500f6.5ca048",
  "type": "function",
  "z": "5ed46ee9.09a338",
  "name": "Format notification",
  "func": "msg.topic=\"Antall drept oppdatert\"\\nmsg.payload= \"Antall drept:\"

```

```

+ msg.payload.arg1.toString();\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 891.7499694824219,
  "y": 1043.75,
  "wires": [
    [
      "886f950d.1b38c8"
    ]
  ]
},
{
  "id": "47255743.92a4f",
  "type": "function",
  "z": "5ed46ee9.09a338",
  "name": "Format notification",
  "func": "var tmp = parseInt(msg.payload*10)/10\nmsg.topic=\"Temperatur\noppdatert\"\n\nmsg.payload= \"Temp:\" + tmp.toString()+\"°C\";\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 878.7499694824219,
  "y": 955.75,
  "wires": [
    [
      "badb3bde.d154f8"
    ]
  ]
},
{
  "id": "4c47ca8d.5ba814",
  "type": "ui_button",
  "z": "5ed46ee9.09a338",
  "name": "",
  "group": "b98dcf7b.9fb63",
  "order": 0,
  "width": 0,
  "height": 0,
  "passthru": true,
  "label": "Vis nåværene verdier.",
  "color": "",
  "bgcolor": "",
  "icon": "",
  "payload": "killRead",
  "payloadType": "str",
  "topic": "",
  "x": 485.3666687011719,
  "y": 369.25,
  "wires": [
    [
      "51e6c500.b3e6dc"
    ]
  ]
},
{
  "id": "4d92acf6.2dcalc",
  "type": "delay",
  "z": "5ed46ee9.09a338",
  "name": "",
  "pauseType": "delay",
  "timeout": "1",
  "timeoutUnits": "seconds",
  "rate": "1",
  "nbRateUnits": "1",
  "rateUnits": "second",
  "randomFirst": "1",
  "randomLast": "5",

```

```
    "randomUnits": "seconds",
    "drop": false,
    "x": 366.3666687011719,
    "y": 100,
    "wires": [
      [
        "dd507f6c.11c7c"
      ]
    ]
  },
  {
    "id": "10117c35.146434",
    "type": "exec",
    "z": "5ed46ee9.09a338",
    "command": "bash /NodeRed/takePicture.sh  ",
    "addpay": true,
    "append": "",
    "useSpawn": "true",
    "timer": "",
    "oldrc": false,
    "name": "take picture",
    "x": 628.36669921875,
    "y": 1743.5,
    "wires": [
      [
        "adacfe70.893f38",
        "bdc01809.2bd6e8",
        "95e24f3f.64b93"
      ],
      [
        "f83c5fa3.785a"
      ],
      [
        "6f5b7c31.4b1e54"
      ]
    ]
  },
  {
    "id": "274eb09e.5eeab",
    "type": "inject",
    "z": "5ed46ee9.09a338",
    "name": "",
    "topic": "",
    "payload": "",
    "payloadType": "date",
    "repeat": "",
    "crontab": "",
    "once": false,
    "x": 261.36669921875,
    "y": 1700,
    "wires": [
      [
        "7834ele1.c99948"
      ]
    ]
  },
  {
    "id": "adacfe70.893f38",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "stdout",
    "active": true,
    "console": "false",
    "complete": "payload",
    "x": 804.36669921875,
    "y": 1732.75,
```

```

    "wires": []
  },
  {
    "id": "f83c5fa3.785a",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "stderr",
    "active": false,
    "console": "false",
    "complete": "payload",
    "x": 984.75,
    "y": 1743.75,
    "wires": []
  },
  {
    "id": "6f5b7c31.4b1e54",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "PRINT",
    "active": false,
    "console": "false",
    "complete": "payload",
    "x": 977.75,
    "y": 1779.75,
    "wires": []
  },
  {
    "id": "bdc01809.2bd6e8",
    "type": "ui_template",
    "z": "5ed46ee9.09a338",
    "group": "fbb8cb29.3b5f38",
    "name": "",
    "order": 1,
    "width": "6",
    "height": "6",
    "format": "<div height=\"210\" style=\"height: 210px;\">\n<img ng-src=\"/{msg.payload}\" width=\"300\"><br/>\n<a href=\"/{msg.payload}\" target=\"_blank\">Full screen</a>\n</div>",
    "storeOutMessages": true,
    "fwdInMessages": true,
    "templateScope": "local",
    "x": 821.75,
    "y": 1663.75,
    "wires": [
      []
    ]
  },
  {
    "id": "d1f92365.b71f",
    "type": "ui_button",
    "z": "5ed46ee9.09a338",
    "name": "capture",
    "group": "fbb8cb29.3b5f38",
    "order": 2,
    "width": 0,
    "height": 0,
    "passthru": false,
    "label": "Update image",
    "color": "",
    "bgcolor": "",
    "icon": "",
    "payload": "",
    "payloadType": "date",
    "topic": "",
    "x": 256.36669921875,
    "y": 1782.25,
  }

```



```

    "wires": [
      [
        "7834e1e1.c99948",
        "ab87c1ec.e4425"
      ]
    ]
  },
  {
    "id": "7834e1e1.c99948",
    "type": "function",
    "z": "5ed46ee9.09a338",
    "name": "tell antall bilder. ",
    "func": "// initialise the counter to 0 if it doesn't exist already\nvar\nCaptureCount = flow.get('CaptureCount')||0;\nmsg.payload=parseInt(CaptureCount);\n\n//msg.payload=\"kake\";\n\nCaptureCount++; \nif(CaptureCount>9001)//Ower\nnineThousand!\n    CaptureCount=0;\n\nflow.set('CaptureCount',CaptureCount);\n\nreturn\nmsg;",
    "outputs": 1,
    "noerr": 0,
    "x": 440.75,
    "y": 1743.75,
    "wires": [
      [
        "10117c35.146434"
      ]
    ]
  },
  {
    "id": "297a8968.61c63e",
    "type": "comment",
    "z": "5ed46ee9.09a338",
    "name": "Input",
    "info": "Her hentes input fra Bruker-grensesnitt.",
    "x": 88.36666870117188,
    "y": 270.5,
    "wires": []
  },
  {
    "id": "98ff686e.bed068",
    "type": "comment",
    "z": "5ed46ee9.09a338",
    "name": "Mottak",
    "info": "Her mottas seriell kommunikasjon fra Nucleo MCU'en.\ndet parses, og\nbehandles. \n\ninterfaces on the webinterface (NodeRed dashboard) are also updated.",
    "x": 66.36666870117188,
    "y": 939.5,
    "wires": []
  },
  {
    "id": "9a925dc1.b6d338",
    "type": "comment",
    "z": "5ed46ee9.09a338",
    "name": "Loops",
    "info": "Denne delen henter verdiene n r NodeRed starter. \n\nnog looper GetTemp,\nog Killcount med satte intervaller. ",
    "x": 103.76666259765625,
    "y": 1425.6166687011719,
    "wires": []
  },
  {
    "id": "194b5aa0.d3b23d",
    "type": "comment",
    "z": "5ed46ee9.09a338",
    "name": "Cheese!",
    "info": "Denne delen tar bilde med kamera og oppdaterer Dashboard med siste

```

```

bilde",
  "x": 100.76666259765625,
  "y": 1750.6166687011719,
  "wires": []
},
{
  "id": "b04d3502.73481",
  "type": "comment",
  "z": "5ed46ee9.09a338",
  "name": "Restart MCU",
  "info": "Dette er i tilfelle Nucleo kortet går i vranglås. \nså kan man
  restarte den. \nden setter reset pinnen lav i et lite øyeblikk, så den starter
  på nytt. ",
  "x": 101.76666259765625,
  "y": 2050.616668701172,
  "wires": []
},
{
  "id": "c6abee94.7a0ba",
  "type": "rpi-gpio out",
  "z": "5ed46ee9.09a338",
  "name": "Camera LED",
  "pin": "11",
  "set": true,
  "level": "0",
  "freq": "",
  "out": "out",
  "x": 1075.449951171875,
  "y": 1845.699951171875,
  "wires": []
},
{
  "id": "95e24f3f.64b93",
  "type": "function",
  "z": "5ed46ee9.09a338",
  "name": "Return 0",
  "func": "msg.payload=0;\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 832.566650390625,
  "y": 1856.3667602539062,
  "wires": [
    [
      "c6abee94.7a0ba"
    ]
  ]
},
{
  "id": "ab87c1ec.e4425",
  "type": "function",
  "z": "5ed46ee9.09a338",
  "name": "Return 1",
  "func": "msg.payload=1;\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 420.566650390625,
  "y": 1817.36669921875,
  "wires": [
    [
      "c6abee94.7a0ba"
    ]
  ]
},
{
  "id": "cc70dd1a.3dbaa8",
  "type": "udp out",

```

```
    "z": "5ed46ee9.09a338",
    "name": "send to PC",
    "addr": "128.39.114.92",
    "iface": "",
    "port": "9050",
    "ipv": "udp4",
    "outport": "",
    "base64": false,
    "multicast": "false",
    "x": 452.44996643066406,
    "y": 755.0000152587891,
    "wires": []
  },
  {
    "id": "55085821.30f338",
    "type": "udp in",
    "z": "5ed46ee9.09a338",
    "name": "Motta via udp",
    "iface": "",
    "port": "9050",
    "ipv": "udp4",
    "multicast": "false",
    "group": "",
    "datatype": "utf8",
    "x": 836.4499664306641,
    "y": 594.6499786376953,
    "wires": [
      [
        "51e6c500.b3e6dc",
        "f9086338.6cbbc"
      ]
    ]
  },
  {
    "id": "f9086338.6cbbc",
    "type": "debug",
    "z": "5ed46ee9.09a338",
    "name": "UDP inn",
    "active": true,
    "console": "false",
    "complete": "payload",
    "x": 1156.449966430664,
    "y": 566.3999786376953,
    "wires": []
  }
]
```