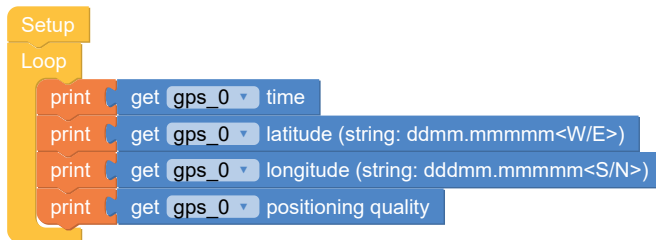


Unit GPS

Example

Get local time, latitude and longitude information



```
from m5stack import *
from m5ui import *
from uiflow import *
import unit

setScreenColor(0x222222)
gps_0 = unit.get(unit.GPS, unit.PORTC)

while True:
    print(gps_0.gps_time)
    print(gps_0.latitude)
    print(gps_0.longitude)
    print(gps_0.pos_quality)
    wait_ms(2)
```

API

Set `gps_0` core uart ID num `1`

```
gps_0.uart_port_id(1)
```

- Set ID parameter

get `gps_0` altitude (meter)

```
print(gps_0.altitude)
```

- Get altitude

get `gps_0` course

```
print(gps_0.course)
```

- Get road information

get `gps_0` date

```
print(gps_0.gps_date)
```

- Get GPS data

get `gps_0` latitude (string: dddmm.mmmmm<W/E>)

```
print(gps_0.latitude)
```

- Get latitude (string format: dddmm.mmmmm)

get `gps_0` latitude decimal (float:dd.ddd)

```
print(gps_0.latitude_decimal)
```

- Get latitude (string format: dd.ddd)

get `gps_0` longitude (string: dddmm.mmmmm<S/N>)

```
print(gps_0.longitude_decimal)
```

- Get longitude (string format: dddmm.mmmmm)

get `gps_0` longitude decimal (float:dd.ddd)

```
print(gps_0.longitude)
```

- Get longitude (float format: dd.ddd)

get `gps_0` positioning quality

```
print(gps_0.pos_quality)
```

- Get positioning accuracy

get `gps_0` satellite num

```
print(gps_0.satellite_num)
```

- Get number of satellites in view

get `gps_0` speed `knot`

```
print(gps_0.speed_knot)
```

- Get ground speed

get `gps_0` time

```
print(gps_0.gps_time)
```

- Get local time

set `gps_0` time zone `0`

```
gps_0.set_time_zone(0)
```

- Set local timezone