

# Stationing in Marushka Design



**GEOVAP**

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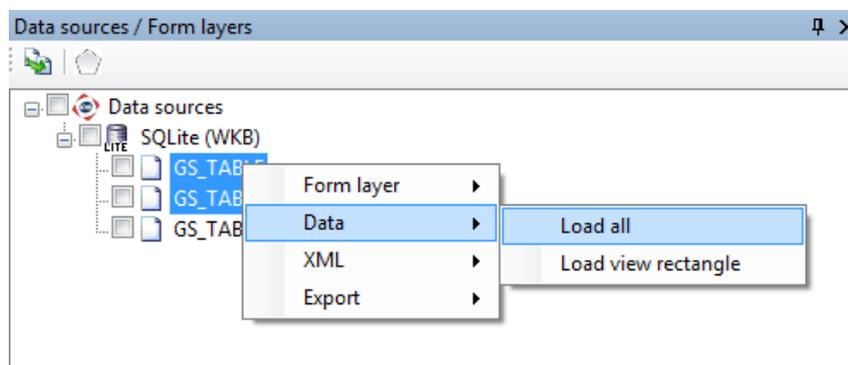
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## 1 Aim of the Example

In this example we will demonstrate how to set a project in MarushkaDesignu, so that single segments will be colored according to the interval defined in the table. This example was created in version 4.1.0.36 and it does not have to be compatible with older versions.

## 2 Working with Example

- Unzip the **Stationing\_EN.zip** into **c:\MarushkaExamples\** folder. The target folder must be respected due to interconnection of paths with the project. In case of placing the files in the different folder, it would not be possible to work with an example.
- In MarushkaDesignu environment open the project **Stationing\_EN.xml**.
- Select form layers **GS\_TABLE** and **GS\_TABLE\_STAT**, in the context menu choose **Data – Load All**:



- In map window choose „Fit All“:



- Launch the local web server:



### 3 Dialog Box Sample

Fig 1: Classification table stat

| RecNo | od   | do   | id_gs_table | color       |
|-------|------|------|-------------|-------------|
| 1     | 0    | 100  | 456         | 255 0 0 255 |
| 2     | 100  | 200  | 456         | 255 255 0 0 |
| 3     | 200  | 300  | 456         | 255 0 255 0 |
| 4     | 300  | 400  | 456         | 255 0 0 255 |
| 5     | 400  | 500  | 456         | 255 255 0 0 |
| 6     | 500  | 600  | 456         | 255 0 255 0 |
| 7     | 600  | 700  | 456         | 255 0 0 255 |
| 8     | 700  | 800  | 456         | 255 255 0 0 |
| 9     | 800  | 900  | 456         | 255 0 255 0 |
| 10    | 900  | 1000 | 456         | 255 0 0 255 |
| 11    | 1000 | 1200 | 456         | 255 255 0 0 |

Fig 2: View GS\_TABLE\_STAT

| RecNo | id  | geom | xmin              | ymin              | xmax              | ymax              | SET_PARS_CUT_LINE | SET_PARS_RGB_COLOR |
|-------|-----|------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 1     | 456 | ...  | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 0.0 100.0         | 255 0 0 255        |
| 2     | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 100.0 200.0       | 255 255 0 0        |
| 3     | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 200.0 300.0       | 255 0 255 0        |
| 4     | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 300.0 400.0       | 255 0 0 255        |
| 5     | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 400.0 500.0       | 255 255 0 0        |
| 6     | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 500.0 600.0       | 255 0 255 0        |
| 7     | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 600.0 700.0       | 255 0 0 255        |
| 8     | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 700.0 800.0       | 255 255 0 0        |
| 9     | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 800.0 900.0       | 255 0 255 0        |
| 10    | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 900.0 1000.0      | 255 0 0 255        |
| 11    | 456 |      | -601041.850813669 | -1160085.80330442 | -600676.142991618 | -1159019.88844762 | 1000.0 1200.0     | 255 255 0 0        |

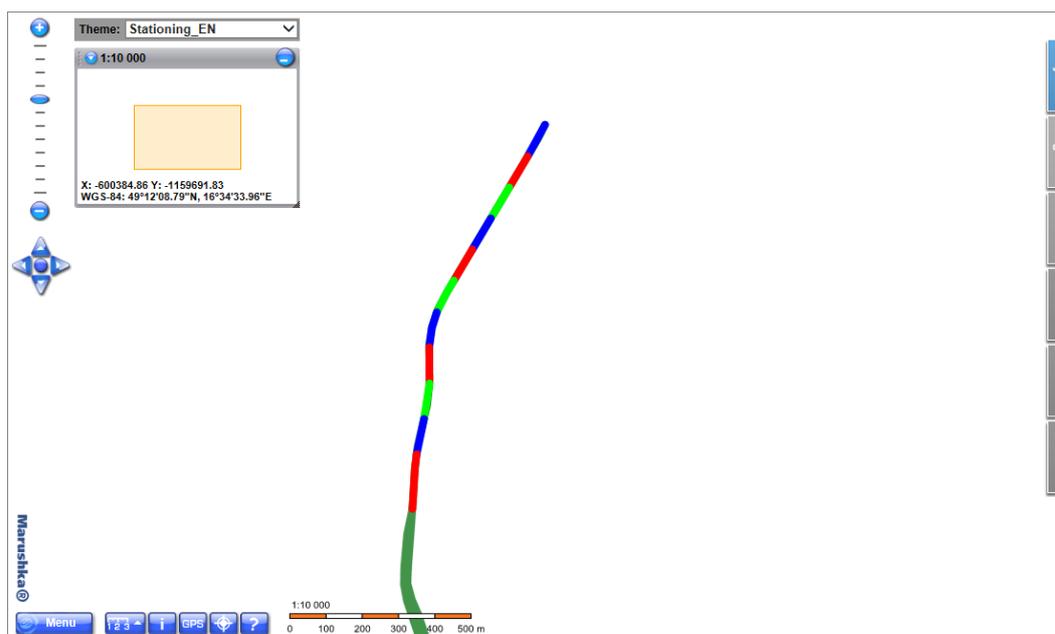


Fig 3: Classification result example

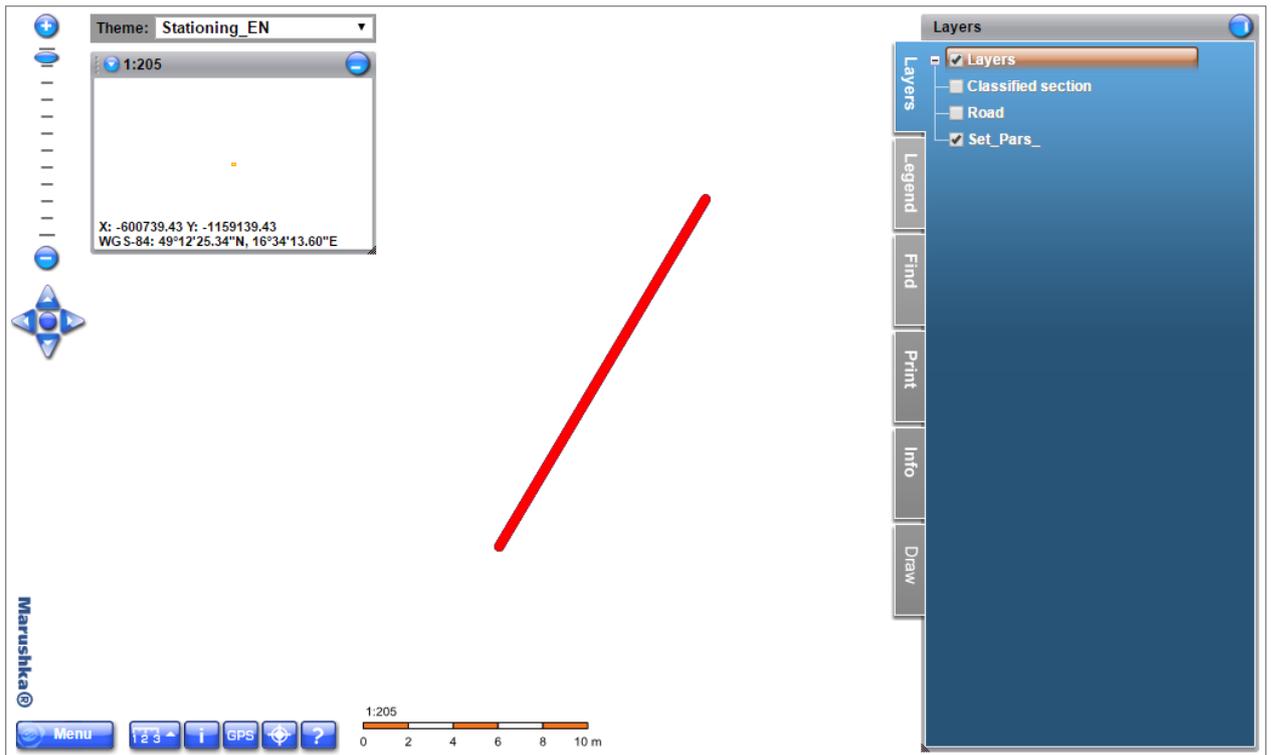


Fig 4: Classification result example for form layer GS\_TABLE\_STAT SET\_PARS\_

## 4 A Brief Description of the Example in MarushkaDesign

This test example contains SQLite database with two form layers. Form layer **GS\_TABLE** renders first class roads in Brno and surroundings and form layer **GS\_TABLE\_STAT** contains classified sections of road. The form layer **GS\_TABLE\_STAT SET\_PARS\_** renders classified part of the road, for which were used all four parameters in the pseudo column **SET\_PARS\_CUT\_LINE**.

Outside the table **GS\_TABLE** is in database table **stat** (Fig 1), in which are defined various intervals, according to which will be colored individual stationing sections also RGB code of colors, by which should be sections colored. Table **GS\_TABLE\_STAT** (Fig 2) is created as a view, where are linked tables **GS\_TABLE** and **stat** based on their ID. You can see a classification result in Fig 3.

Script for creating view from Fig 2 in SQLite:

```
CREATE VIEW GS_TABLE_STAT as select a.id,a.geom,a.xmin,a.ymin,a.xmax,a.ymax,
b.od || ' ' || b.do SET_PARS_CUT_LINE, b.color SET_PARS_RGB_COLOR from gs_table
a, stat b where b.id_gs_table=a.id;
```

Cutting of individual sections is performed by **SET\_PARS**, specifically **SET\_PARS\_CUT\_LINE**, which cuts the line according to the startpoint and endpoint of stationing. Parameters: 2 \* number (string) – 'beginning end', e.g. '130.1 148.2'. Coloring of each section was performed by **SET\_PARS\_RGB\_COLOR**. Stationing classification result can be seen in Fig 3.

For form layer **GS\_TABLE\_STAT SET\_PARS\_** are used all four query parameters for query **SET\_PARS\_CUT\_LINE**. In **DBCColumnsToClient** is defined the following string: '130.1 148.2 0.75 0' **SET\_PARS\_CUT\_LINE**. Individual values do define:

1. start offset
2. end offset
3. shift radius from original line 0 (+ to the left, - to the right)
4. keep the user style (1 keep, 0 erase)

Attention, it is necessary to keep the same order of parameters; otherwise, the **SET\_PARS\_** would not work properly.

For this form layer is in **DBCColumnsToClient** defined:

```
'130.1 148.2 0.75 0' SET_PARS_CUT_LINE, SET_PARS_RGB_COLOR
SET_PARS_RGBCOLOR
```

In this case will the stationing be displayed in a range from 130,1 to 148,2, will be shifted by 0,75 meters to the left of the original line and the value 0 defines that if the user style is used to render the line, it will not be retained. The user style can be disabled using the pseudo column, only if it is already defined in the geometry of the element. If it is defined in Marushka Design using pseudo columns **SET\_PARS\_** or symbology, the style would not be disabled.

The pseudo column **SET\_PARS\_RGBCOLOR** **SET\_PARS\_RGBCOLOR** takes appropriate column in the table and colors the individual section of the stationing. You can test the query result by loading the form layer **GS\_TABLE\_STAT SET\_PARS** into the map window, or run the web server and on the publish layer **Set\_Pars\_**. The result should roughly correspond to the situation in Figure 4.