

GP4 GPS2TXT Guide

for version 1.38, march 2022

Introduction

The tool GPS2TXT creates driver-, team- and tracktables from GP4 gpaedia gps files. It also generates text files for the season independent parts of the gps and optionally trackinfo files with the circuit information descriptions. These files are all UTF-16LE encoded as the gps files are. They can be edited and used by GPaediaMaker to create new gpaedia.

History

In the late 2011 I began programming for a tool to create GP4 gpaedia. This should use tables in CSV format to contain the driver-, team- and trackdata of the specific fl season. The first thing to do was generating CSV tables and the season independent parts as text files from the original GP4 gps. My tool **gps2txt** did this, although in a very provisional way: it was only able to process the english gps and the format was hardcoded. Nevertheless this was the basis for the GpaediaMaker tool that was first released in april 2012.

The next step was the update to the free format version. In may 2013 the GpaediaMaker program got the free format (userformat) capability. For testing it I needed some data in a format different from the original gps which I found in several mods of the 1980s and 1990s. The new **gps2txt_ff** program was then used to read the gps to CSV (and part text files) ready to be updated and processed by GpaediaMaker.

The final steps to the first released version were done in september 2018. It profited from the txt2gps_ff program that had improved a lot since 2013. The utf to string conversion routines are making the use of special characters possible without the need of correcting by hand which had been necessary before in some french and italian text files. The information output is now done mainly into a log file. Several checking routines are helping to detect errors. CSV and text output is possible using all five languages and is controlled by a new ini file parameter.

Usage

The tool is controlled by an ini file for every season, e.g. gps_2001.ini, which is given as a parameter to the program. The structure of the CSV files is given in a form text file. Output can be done in all five languages (English, Deutsch, español, Français, italiano), but for GpaediaMaker only the english CSV files are relevant.

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Setting up GPS2TXT

The GPS2TXT package includes the following files and archives:

- `gps2txt_ff.exe` the executing program
- `form.txt` form text file basic structure
- `trackinfo_trans.txt` text file with translation names for trackinfo file names
- `example_2001` subfolder with example files from original GP4:
 2001 `gps`, `ini`, form text files, `trackinfo_trans.txt`

Copy the **exe** file into the program directory of your choice.

No installation is needed. The program should run under every windows system.

For seasons data create a subfolder and put in the `gps` files and form text files.

You may store your **ini** files anywhere, but most commonly you may use the programs folder or your seasons data folder.

INI file

In the ini file you define which languages are used, which file types are created and the paths, the name formats of the files and some special settings.

The following ini file example shows the specification of the folders and files. The "in_path" is defined as a subfolder of "program_path" and used as a base folder.

```
;--- gps_2001org.ini ---
;--- gps2txt_ff configuration file ---

; set modes for languages (0,1,2,3,4);
; gps_modes 0=not, 1=CSV, 2=txt, 3=all
gps_modes = 3,2,2,2,2

; => %ln% = en, de, es, fr, it
; => %language% = English, Deutsch, español, Français, italiano

; define season variable %season%
season=2001

; program path (optional, default: path of exe file)
;program_path = d:\gpaedia\gps2txt_ff

; input path (may not be used)
in_path = %program_path%\%season%\

; gps file (specified with in_path or alternative with program_path)
gps_file = %in_path%\GP%season%_%language%.gps

; form file (specified with in_path or alternative with program_path)
form_file = %in_path%\form_%season%_%ln%.txt

; trackinfo file in outpath\trackinfo (normal: "en_%trackname%_%season%.txt")
trackinfo_file = %ln%_%trackname%_%season%.txt

; trackinfo_trans txt file (default: %program_path%\trackinfo_trans.txt
; circuit name translation values used for trackinfo text file names
trackinfo_trans = %in_path%\trackinfo_trans.txt

; output path for created csv and text files
out_path = %in_path%\out

; ignore linkdata (default = 0: linkdata taken for driver, team, country)
ignore_linkdata = 1

; driver\team delimiter (optional; default is "\"; "_" is replaced by " ")
;driver_team_delim = /

; country \ town delimiter (optional; default is " \ "; "_" is replaced by " ")
;country_town_delim = _/_

; name of log file; extension is always ".log"
; optional: default is "gpaedia.log".
;log_file = gps

; extended log file display (default = 0, no extended display);
; displays utf critical code and trackinfo translation informations
log_extended = 1
```

Specifications

In the ini file you can make the specifications as given in the table below.

You can use two variables that depend on the active language:

%ln% which is replaced by "en", "de", "es", "fr" or "it"

%language% which is replaced by "English", "Deutsch", "español", "Français" or "italiano"

gps_modes	A list of 5 comma-seperated values between 0 and 3. The value defines the output: 0=nothing, 1=CSV, 2=part txt, 3=both; the order of the list is: English, Deutsch, español, Français, italiano. Example to create english CSV files only: gps_modes = 1,0,0,0,0
season	Racing season, for example season = 2018 This can be used as variable %season% in following specifications
program_path	Optional defines a base folder; default is the folder of the gps2txt_ff program. This can be used as variable %program_path% in following specifications.
in_path	Defines the path of the files to be read, which are gps and form text files. This can be used as variable %in_path% in following specifications. It's specification can also be omitted if it is not used later on.
gps_file	Path and name form of the gps files to be read. Example: %in_path%\GP%season%_%language%.gps reads from %in_path% the files GP2018_English, GP2018_Deutsch etc.
form_file	Path and name form of the form text files to be read. Example: %in_path%\form_%season%_%ln%.txt reads from %in_path% the files form_2018_en.txt, form_2018_de.txt etc.
trackinfo_file	Name format of the circuit info files; these files will only be created when their name is specified here and if CSV files are created for the actual language, i.e, if the gps_mode is 1 or 3. Output folder is "trackinfo" as subfolder of out_path. trackinfo_file has to be specified before out_path. %trackname% will be replaced by the name of the track actually processed. Example: %ln%_%trackname%_%season%.txt may create en_melbourne_2018.txt, de_melbourne_2018.txt etc.
trackinfo_trans	Defines a UTF-16LE encoded text file name that contains the language specific names of the tracks; the name may contain %program_path% or %in_path%. See chapter trackinfo file name translation for detailed information.
out_path	Defines the path of the files to be written, which are CSV and/or text files. This folder is created if it does not exist. Example: %in_path%\output Files are written to subfolder "output" of folder %in_path%.
ignore_linkdata	Default 0: linkdata are taken for driver, team, country Set to 1: linkdata may be ignored if not compatible to previous table values
driver_team_delim	Defines an alternative delimiter of the driver-team list Optional; default is "\".
country_town_delim	Defines an alternative delimiter of the country-town list Optional; default is " \ ".
log_file	Specifies the name of the log file without the extension which is always "log". This is optional; default is "gpaedia.log"
log_extended	extended log file display; optional (default 0)

CSV and text file names

Names of CSV files are always "driver.csv", "team.csv" and "track.csv" for the english language.

If you generate CSV files for another language – which is possible, but can't be used by GpaediaMaker – a prefix %ln%_ is added to the files name, like "de_driver.csv".

Text files all have certain names. The constant parts of the gps are written into %ln%_partxx.txt, where xx goes from 1 to 11: en_part1.txt ... en_part11.txt, de_part1.txt ... de_part11.txt etc.

Form text file

The form text file is language dependend, its name is specified in the INI file.

The CSV tables will have the drivers, teams or tracks as columns while the rows contain the specific data.

The form text file contains the row structure for the tables. You have to examine the gps file(s) and extract the row headers for the data.

```
;form.txt

[driver]
Name
Team:
...
driver replace
[team]
Team
Team name
...
[track]
Circuit name
Country
Circuit info name
...
#info
...
corner data
;---end---
```

Basic structure of a form file:

A line after a leading semicolon is used for commentary.

Blank lines are not processed also but can be put in for better reading structure. Entries have to begin at the leftmost position.

Three parts are defined by the section headers [driver], [team] and [track]. The order of those sections may vary.

The entries seen left are mandatory, others inserted into the "...“ parts depend on the gps file that is read.

The track section consists of two parts. The first is for the general gpaedia, the second - starting with #info and ending with corner data - is for the track records.

The form text file has to be UTF-16 LE encoded and must have a blank line with only CrLf at the end.

The %season% GP: feature

In the original GP2001_English.gps files track gpaedia for the australia gp you find:

2001 GP: March 4 2001 (58 Laps)

You have the option to split this data into two different rows "GP Date" and "Laps" for the date and the number of laps by specifying the following in the form text files track section:

```
%season% GP:
GP Date
Laps
```

where %season% is set to 2001 in the ini file.

This only works for english gps files with row headers that end with " GP:".

If you just write

```
%season% GP:
```

you get the whole data "March 4 2001 (58 Laps)" into the row after the "2001 GP:" header.

Alternative form headers

Sometimes a row header is not unique. This may be done intentionally or because of a typing error.

You can handle this case by defining a list of alternative headers in one row separated by "|".

Examples:

```
Technical Director: | Head of Engineering: | Exec. Director of Engineering:
```

2000 Championship Position: | 2000 Championship Position:
Record en qualifications : | Record en qualification : | Record en qualification

The first header entry defines the rows name in the table.
Blank spaces before and after the separator "|" are ignored.

The first example shows intentionally different headers.
The second example shows an alternative header written intentionally in a form we want to change. The 3rd example shows alternative headers with mistakes. Here as the 2nd and 3rd alternative header have the same beginning, the longer one should be first.

An example of a form.txt file to read the original GP2001_English.gps:

```
;form_2001_en.txt
; standard format english

[track]
Circuit name
Country
Circuit info name
Address:
2001 GP:
GP Date
Laps
2000 Results:
Race Lap Record:
Qualifying Lap Record:
First GP:
Number of GPs held:
Circuit Length:
Circuit Info:
#info
qualifying lap record:
race lap record:
2000 seasons results
pole position:
fastest lap:
race winner:
corner data

[team]
Team
Team (short)
Team Principal: | Chairman & CEO: | President: | Chairman/Team Owner: | CEO ...
Technical Director: | Head of Engineering: | Exec. Director of Engineering:
Drivers:
Team Nationality:
Team Base:
Number of years in F1:
Number of wins:
Number of drivers titles:
Number of constructors titles:

[driver]
Name
Team:
Date of Birth:
Nationality:
Residence:
Grand Prix Starts:
Points Scored:
Best Result:
Best Qualifying:
First GP:
2000 Championship Position: | 2000 Championship Position:
Previous Teams:
;---end---
```

Running gps2txt_ff

Starting the program with the ini file as parameter will produce an information output on the screen. The detailed output in the log file can be shown immediately by pressing the "Space" key.

```
GPS to CSV
=== gps2txt_ff 1.34 ===

INI file "D:\GP4\GPaedia\gps2txt_ff\2001org\gps_2001org_134.ini" opened
selected modes: en=3 de=3 es=3 fr=3 it=3
season = 2001
program_path = "d:\GP4\gpaedia\gps2txt_ff"
in_path = "d:\GP4\gpaedia\gps2txt_ff\2001org\"
trackinfo_trans = "d:\GP4\gpaedia\gps2txt_ff\2001org\trackinfo_trans.txt"
out_path="d:\GP4\gpaedia\gps2txt_ff\2001org\test134"
trackinfo folder = "d:\GP4\gpaedia\gps2txt_ff\2001org\test134\trackinfo\"

logfile "d:\GP4\gpaedia\gps2txt_ff\2001org\test134\gpaedia.log" opened for output - ok
Trackinfo trans name rows: 8
-----
Form file "d:\GP4\gpaedia\gps2txt_ff\2001org\form_2001_en.txt" opened
Init table rows and columns
gpsfile "d:\GP4\gpaedia\gps2txt_ff\2001org\GP2001_English.gps" opened binary - ok
11 part text files, 17 trackinfo files, 3 CSV files created
-----
Form file "d:\GP4\gpaedia\gps2txt_ff\2001org\form_2001_de.txt" opened
Init table rows and columns
gpsfile "d:\GP4\gpaedia\gps2txt_ff\2001org\GP2001_Deutsch.gps" opened binary - ok
11 part text files, 17 trackinfo files, 3 CSV files created
-----
Form file "d:\GP4\gpaedia\gps2txt_ff\2001org\form_2001_es.txt" opened
Init table rows and columns
gpsfile "d:\GP4\gpaedia\gps2txt_ff\2001org\GP2001_español.gps" opened binary - ok
11 part text files, 17 trackinfo files, 3 CSV files created
-----
Form file "d:\GP4\gpaedia\gps2txt_ff\2001org\form_2001_fr.txt" opened
Init table rows and columns
gpsfile "d:\GP4\gpaedia\gps2txt_ff\2001org\GP2001_Français.gps" opened binary - ok
11 part text files, 17 trackinfo files, 3 CSV files created
-----
Form file "d:\GP4\gpaedia\gps2txt_ff\2001org\form_2001_it.txt" opened
Init table rows and columns
gpsfile "d:\GP4\gpaedia\gps2txt_ff\2001org\GP2001_italiano.gps" opened binary - ok
11 part text files, 17 trackinfo files, 3 CSV files created
-----
5 gpsfiles processed

Detailed Information in logfile "d:\GP4\gpaedia\gps2txt_ff\2001org\test134\gpaedia.log"
0 errors or warnings in log file
--- press space to view log, any other key to quit ---
```

In the head of the screen output information about the ini file and its parameters is given. Then for each gps file that is processed an information section is displayed.

After a critical error, which is displayed in red, the program will stop immediately.

See chapter [Error messages](#) for further information.

Log file

The program writes processing information into a log file in the *out_path* directory. The default name of this file is "gpaedia.log", but you may choose a different name using the [INI file specification log_file](#).

In the log file you will find not critical errors written as lines beginning with ">>>" which will help you discover mistakes in your data input. After a header including information about the INI file settings each gps file that is processed has a section of information. A log file structure example:

```
=== gpaedia.log ===
logfile for gps2txt_ff version 1.32
processing "d:\gp4\gpaedia\gps2txt_ff\2001org\gps_2001org.ini"

INI file settings:
proppath      = "d:\GP4\gpaedia\gps2txt_ff"
inpath       = "d:\GP4\gpaedia\gps2txt_ff\2001org\"
...
Trackinfo trans names (6,4)
-----
gpsfile No. 1 / modus=3: language=0 en, csvmodus=1, txtmodus=1

Read format text file
Form file "e:\gpaedia\gps2txt_ff\2001org\form_2001_en.txt" opened
 13 driver_header:
 1      "Name"
 2      "Team:"
 3      "Date of Birth:"
...
Drivertable (13,22)
Teamtable (11,11)
Tracktable (47,17)
Init table rows and columns: Set corner rows
File "d:\gpaedia\gps2txt_ff\2001org\GP2001_English.gps" opened binary - ok
...
CSV file "d:\gpaedia\gps2txt_ff\2001org\out\driver.csv" created
CSV file "d:\gpaedia\gps2txt_ff\2001org\out\team.csv" created
CSV file "d:\gpaedia\gps2txt_ff\2001org\out\track.csv" created
11 part text files, 17 trackinfo files, 3 CSV files created
-----
gpsfile No. 2 / modus=2: language=1 de, csvmodus=0, txtmodus=1

File "d:\gpaedia\gps2txt_ff\2001org\GP2001_Deutsch.gps" opened binary - ok
...
-----
5 gpsfiles processed
1 errors or warnings in log file
```

Examining the created CSV files, you may find mistakes. The not critical error messages "header not used" want to help you with this. To eliminate the cause of such a message, first compare the headers in the form text file with the corresponding parts of the gps file. The reason of a mistake is often found in the row before the first unused row header.

If this is not sufficient you may have to edit the gps file. If the gps is made from a user by hand, it is possible that some headers or data were just omitted.

A nasty mistake is the wrong use of CrLf and Lf. The program reads the gps file line by line using CrLf as End-Of-Line character sequence. A linefeed can make a new line inside a data cell and is not recognized as EOL. If this is mixed in a gps file, you will only be able to see it in hexadecimal dump mode and have to correct it inside the gps file.

Critical Characters

Some gps, especially those with french or italian language, contain unicode characters with both bytes greater than 00. These cases are managed by conversion routines UTF <=> ANSI using a special feature of the Windows 1252 code page.

ANSI-rows 8x and 9x of the 1252 CP have got special characters instead of control characters. The characters of the lightyellow cells occur in 2001 gps files.

Code	...0	...1	...2	...3	...4	...5	...6	...7	...8	...9	...A	...B	...C	...D	...E	...F
8...	€		,	f	„	...	†	‡	^	‰	Š	◁	Œ		Ž	
9...		‘	’	“	”	•	—	—	~	™	š	▷	œ		ž	ÿ

The `gps2txt` program uses a conversion list to read unicode and work with ANSI. If csv or text files are written, the conversion is made the other way around except for the quotation marks. The two single quotation marks are replaced by `U+0027 = ' ,` the three double quotation marks by `U+0022 = " .`

List of critical unicode characters and their replace characters:

Unicode		Escape	Ansi	UTF-out	Keyboard	Char	Description
0152 = 338		U+0152	008C	U+0152	Alt+0140	Œ	Latin Capital Ligatur Oe
0153 = 339		U+0153	009C	U+0153	Alt+0156	œ	Latin small Ligatur Oe
2018 = 8216		U+2018	0091	U+0027	Alt+0145	` `	Left single quotation mar
2019 = 8217		U+2019	0092	U+0027	Alt+0146	' '	Right single quotation mark
201C = 8220		U+201C	0093	U+0022	Alt+0147	" "	Left double quotation mark
201D = 8221		U+201D	0094	U+0022	Alt+0148	" "	Right double quotation mark
201E = 8222		U+201E	0084	U+0022	Alt+0132	„ ”	Doulbe low-9 quotation mark
2026 = 8230		U+2026	0085	U+2026	Alt+0133	…	Horizontal ellipsis

If a conversion is not successful because the unicode is not found in the list, a warning message

```
>>> UTF2ANSI failed: %Unicode%
```

is written into the log file.

If the INI file specification *log_extended* is set (to 1) you will get additional information about critical unicode characters during input and output.

Example 2001org

- text file output (code, character, number of occurrences):

Text file "d:\GP4\gpaedia\gps2txt_ff\2001org\test131\it_part9.txt" created.
U+2026 ... 2

- trackinfo file output

```

2          3          667 [NAK]Brésil Interlagos
Text file "d:\GP4\gpaedia\gps2txt_ff\2001org\test131\trackinfo\fr_interlagos_2001.txt" created.
U+0153   æ   1

```

- input summary at the end of the gps file information:

```

UTF gps input summary:
U+2019 ' 485 => U+0027 '
U+201C " 17 => U+0022 "
U+201D " 17 => U+0022 "
U+2018 \ 2 => U+0027 '
U+2026 ... 2

```

Trackinfo file name translation

A trackinfo file name is defined in the INI file, for example

```
trackinfo_file = %ln%_%trackname%_%season%.txt
```

If a trackname is taken from a non english gps file, the %trackname% variable may be replaced by a name with special language characters and look like one of the following examples:

```
de: Nürburgring
es: Indianápolis
fr: Montréal
it: Barcellona
```

GPaidiaMaker reads english CSV files and therefore has got english tracknames which will define the trackinfo file names also. To generate trackinfo text files compatible with GPaidiaMaker, the gps2txt program uses the trackinfo_trans file. This UTF-16LE encoded text file has to have a blank line with only CrLf at the end. You are free to edit it. By default it is written from the %program_path% directory and has the name "trackinfo_trans.txt". If you want to have a special trackinfo_trans file with another name and/or directory, you can specify **trackinfo_trans** in the INI file with a text file path and name as argument.

The language specific names are read and compared to the actual trackname. If found, the lowercase english name is taken. Entries are in the typical order en,de,es,fr,it and the delimiter is "|":

```
Barcelona|Barcelona|Barcelona|Barcelone|Barcellona
Indianapolis|Indianapolis|Indianápolis|Indianapolis|Indianapolis
Montreal|Montreal|Montreal|Montréal|Montréal
Nurburgring|Nürburgring|Nürburgring|Nürburgring|Nürburgring
```

Using this, the created trackinfo files for 2001 will be

```
en_barcelona_2001.txt, de_barcelona_2001.txt, ... , it_barcelona_2001.txt,
en_indianapolis_2001.txt, de_indianapolis_2001.txt, ... , it_indianapolis_2001.txt,
en_montreal_2001.txt, de_montreal_2001.txt, ... , it_montreal_2001.txt,
en_nurburgring_2001.txt, de_nurburgring_2001.txt, ... , it_nurburgring_2001.txt
```

If in the INI file **log_extended** is set (to value 1), you will get additional information about the translations of trackinfo file names.

Example 2001org, german gps file:

```
Trackinfo data (Gpaedia-Num., Track, Label + Circuit):
...
"Nürburgring" => "nurburgring"
Text file "d:\GP4\gpaedia\gps2txt_ff\2001org\test131\trackinfo\de_nurburgring_2001.txt" created.
```

If translation is from uppcase to lowercase only, the information is not included into the log file.

In the 2001 example a special trackinfo_trans text file is specified that does the translations and also fixes a problem with the spanish circuit name of "spa-francorchamps":

```
; --- trackinfo_trans.txt ---
; special values for translation of (circuit) names used by trackinfo text files:
Barcelona|Barcelona|Barcelona|Barcelone|Barcellona
Baku|Baku|Bakú|Bakou|Baku
Indianapolis|Indianapolis|Indianápolis|Indianapolis|Indianapolis
Monte-Carlo|Monte-Carlo|Montecarlo|Monte-Carlo|Monte Carlo
Montreal|Montreal|Montreal|Montréal|Montréal
Nurburgring|Nürburgring|Nürburgring|Nürburgring|Nürburgring
Sochi|Sotschi|Sochi|Sotchi|Sochi
Spa-Francorchamps|Spa-Francorchamps|Spa|Spa-Francorchamps|Spa-Francorchamps
;--- end
```

Data reading example

As an example of the programs processing lets examine the reading of the driver data in the "GP2001_English.gps" of the original GP4 gpaedia:

The first drivers data in the gps file is	The form file has following driver header:
696 [NAK]Team: McLaren Date of Birth: 28/9/1969 Nationality: Finnish Residence: Monaco Grand Prix Starts: 145 Points Scored: 383 Best Result: 18 wins Best Qualifying: 26 Poles First GP: USA 1991 2000 Championship Position: 2nd Previous Teams: Lotus [NAK]	[driver] Name Team: Date of Birth: Nationality: Residence: Grand Prix Starts: Points Scored: Best Result: Best Qualifying: First GP: 2000 Championship Position: 2000 Championship Position: Previous Teams:

The term [NAK] stands for the control code U+0015.

The number of entries in the [driver] section of the form file defines the dimension of the driver csv table. As the program always adds a last row "driver replace", in this example the driver csv gets 12 plus 1 = 13 rows and 22 columns (1 for every driver).

First the driver label is searched, for the first driver this is "696 [NAK]". If it is not found, a critical error message is displayed and the program stops. Else the value behind "Team:" will be taken as team name, except for label "719 [NAK]" which is the first line of the two line part text file 8.

Then for 3 to the maximum number of driver rows the headers are searched for. The text behind the header is taken as data into the driver csv table and the program memorizes the use of the header. Lines without a header are taken as data belonging to the previous header. Finally it is checked if all headers for driver rows 3 to maximum-1 were used. A not critical error message is written into the log file for every header not used.

Lets assume that in the gps file the header line "Points Scored" has been forgotten for the first driver with label "696 [NAK]", which is the first one in the gps file and belongs to driver number 3 (Mika Hakkinen) of the driver\team list.

If the program examines the data of the header before the mistake, that is "Grand Prix Starts", it takes all the text behind it as data belonging to this header until a line starting with the next header of the form text list, "Points Scored" in this case, is found. When this header does not exist, the reading of the driver data continues until the [NAK] at the end of the drivers data section is found. You will get the following not critical error messages in the log file:

```
>>> driver 3 header not used: 7      "Points Scored:"
>>> driver 3 header not used: 8      "Best Result:"
>>> driver 3 header not used: 9      "Best Qualifying:"
>>> driver 3 header not used: 10     "First GP:"
>>> driver 3 header not used: 11     "2000 Championship Position:"
>>> driver 3 header not used: 12     "Previous Teams:"
```

In the driver table you will find all the data belonging to the not used headers is written into the cell of the "Grand Prix Starts" row.

Correct the gps file to avoid this error.

Error messages

Most of the messages are displayed on the screen as well as in the log file.

INI file errors are displayed on the screen only because the log file is opened after reading the INI.

Critical

```
INI file not found %inifile%
Error when opening INI file %inifile%
program_path folder %programpath% not found.
in_path_folder %inpath% not found.
out_path folder %subfolders% could not be created in folder %folder%
subfolder %subfolder% could not be created in %CurDir%
out_path folder %outpath% could not be created.
trackinfo folder %trackinfo_folder% could not be created.
Invalid gps value list %lng_lst%: %part_count% parts
Invalid gps value %lng_list%
Invalid log_extended value %log_extended%
Error when opening logfile %logfile%
Error when opening gpsfile %gpsgfile%
gpsfile %gpsfile% not found
%gpsfile% has not UTF-16 file format
Form file not found %formfile%
Error when opening form file %formfile%
driver format not found
team format not found
track format not found
invalid #info row %info_row%
Driver table not found - EOF
End of driver table not found - EOF
Track table not found - EOF
Track records not found - EOF
Tracklabel %Tracklabel% not found - EOF
Track-Header %trackheader% not found - EOF
Error when opening trackinfo trans text file %trackinfo_trans%
Teamlabel %teamlabel% not found - EOF
Team-Header %teamheader% not found - EOF
Driverlabel %driverlabel% not found - EOF
Driver-Header %driverheader% not found - EOF
corner data not found - EOF
Linklabel %FirstLinkLabel% not found - EOF
Text file not found %txtfile%
%txtfile% no CRLF at end of file
Empty text file name %outfile%
Error when opening text file %outfile%
Startlabel %Startlabel% not found - EOF
Exitlabel %Exitlabel% not found - EOF
```

Warning and Summary

```
driver %driver% header not used: %num% %driver_header%
team %team% header not used: %num% %team_header%
track %track% header not used: %num% %track_header%
UTF2ANSI failed: %Unicode%
%txt% part text files, %circuits% trackinfo files, %csv% CSV files created
%driverlink% <> %drivername%, link data ignored.
%teamlink% does not belong to %teamname%, link data ignored.
%tracklink% <> %country%, link data ignored.
%filecount% gpsfiles processed
%errors% errors
%errorcount% errors or warnings in log file
```

2001 example

The 2001_example folder has got the original GP4 gps files of all five languages though only the english language file is necessary to get the basic data for GPaediaMaker. You may create csv files using the other languages to examine the output.

Five form text files are provided that contain the row headers for the csv tables.

Several mistakes in the gps files are handled using the [Alternative form headers](#) feature:

form_2001_en.txt

```
[driver]
2000 Championship Position: | 2000 Championship Position:
```

form_2001_es.txt

```
[track]
Resultados de 2000: | Resultados de 2000 | Resultados de 1999:
```

```
[driver]
Fecha de nacimiento: | Fecha de nacimiento;
Puesto en el campeonato de 2000: | Puesto en el campeonato de 1999:
```

form_2001_fr.txt

```
[track]
Adresse : | Adresse
Record en qualifications : | Record en qualification : | Record en qualifications |
Record en qualification
Vainqueur : | Vainqueur : | Vainqueur
```

The different team headers for "Team Principal" or "Technical Director" are not mistakes but used intentionally. They also are handled using alternative headers:

```
EN Team Principal: | Chairman & CEO: | President: | Chairman/Team Owner: | CEO (PPD): |
Managing Director: | Chairman: | Chairman/Chief Executive:
```

```
DE Präsident: | Vorsitzender / Generaldirektor: | Besitzer / Hauptgeschäftsführer: |
Vorsitzender / Geschäftsführer: | Geschäftsführender Direktor: | Vorstandsvorsitzender:
| Teamleiter: | Vorsitzender/Leitender Geschäftsf.::
```

```
FR Président : | Président directeur-général : | Directeur général : | Propriétaire &
dir.-général :
```

```
EN Technical Director: | Head of Engineering: | Exec. Director of Engineering:
```

```
DE Technischer Direktor: | Chef-Ingenieur:
```

In the created csv files the corresponding header has always the value of the first entry of the alternative list. If you want to know how to create 2001 gpaedia using the original "Team Principal" or "Technical Director" headers, please read the tutorial "[Using # as cell entry](#)".

The "trackinfo_trans.txt" file specified in the INI file with
trackinfo_trans = %in_path%\trackinfo_trans.txt

is special for the original GP4 2001 season. See chapter [trackinfo file name translation](#) for more information.

The following pages show the processing table with the different gpaedia sections handled by gps2txt_ff. Cells with yellow background contain season dependent stuff used to build the csv tables.

The term [NAK] stands for character U+0015.

2 [NAK]<LINK>DRIVE<\LINK> <LINK>LOAD<\LINK> ► 3 [NAK]<LINK>EXIT<\LINK> [NAK] 4 [NAK]<VARIABLE>[NAK] 102 [NAK]free practise[NAK] ''' 1649 [NAK]<LINK>DRIVE<\LINK> [NAK] 1650 [NAK]LOAD WORKSHOP OPTIONS MULTIP ► 1767 [NAK]DRIVE[NAK]		part text 1 35 lines Start: first line of gps file End: label "1767 [NAK]"
9 [NAK]michael schumacher\ferrari rubens barrichello\ferrari mika hakkinen\mclaren mercedes david coulthard\mclaren mercedes ralf schumacher\williams bmw juan pablo montoya\williams bmw giancarlo fisichella\benetton renault jenson button\benetton renault jacques villeneuve\bar honda olivier panis\bar honda jean alesi\jordan honda jarno trulli\jordan honda jos verstappen\arrows asiatech enrique bernoldi\arrows asiatech nick heidfeld\sauber petronas kimi raikkonen\sauber petronas eddie irvine\jaguar ford cosworth pedro de la rosa\jaguar ford cosworth fernando alonso\minardi european alex yoong\minardi european heinz-harald frentzen\prost acer luciano burti\prost acer[NAK]	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	driver\team list order: f1 season Start: behind part text 1 End: first or last character is [NAK] driver\team delimiter is "\" driver => drivertab row 1 team => drivertab row 2 => teamtab row 2 <i>(teamtab 2 will normally be replaced with team linkdata later on)</i>
45 [NAK]<LINK>CANCEL<\LINK> <LINK>OK<\LINK> [NAK] 47 [NAK]yes[NAK] 48 [NAK]no[NAK] 110 [NAK]<LINK>BACK<\LINK> [NAK] ... 2103 [NAK]OK[NAK] 2162 [NAK]BACK[NAK] 2163 [NAK]CANCEL[NAK]		part text 2 129 lines Start at label "45 [NAK]" End at label "2163 [NAK]"
55 [NAK]michael schumacher\ferrari[NAK] 56 [NAK]rubens barrichello\ferrari[NAK] 57 [NAK]mika hakkinen\mclaren[NAK] 58 [NAK]david coulthard\mclaren[NAK] 59 [NAK]ralf schumacher\williams[NAK] 61 [NAK]giancarlo fisichella\benetton[NAK] 62 [NAK]jenson button\benetton[NAK] 63 [NAK]jacques villeneuve\bar[NAK] 65 [NAK]jarno trulli\jordan[NAK] 66 [NAK]pedro de la rosa\jaguar[NAK] 67 [NAK]jos verstappen\arrows[NAK] 68 [NAK]nick heidfeld\sauber[NAK] 70 [NAK]eddie irvine\jaguar[NAK] 75 [NAK]jean alesi\jordan[NAK] 384 [NAK]driver best laps[NAK] 1018 [NAK]juan pablo montoya\williams[NAK] 1019 [NAK]enrique bernoldi\arrows[NAK] 1020 [NAK]kimi raikkonen\sauber[NAK] 1021 [NAK]fernando alonso\minardi[NAK] 1023 [NAK]luciano burti\prost[NAK] 1024 [NAK]olivier panis\bar[NAK] 1115 [NAK]hotseat <VARIABLE> players selected[NAK] 1273 [NAK]heinz-harald frentzen\prost[NAK] 1352 [NAK]alex yoong\minardi[NAK] 1475 [NAK]tomas enge\prost[NAK]	3 4 1 2 12 5 8 7 18 19 13 6 14 15 17 9 16 10 22 11 20 21	driver team list 2 not read by the gps2txt; 23 driver

13 [NAK]wing adjustments[NAK] 14 [NAK]brake balance[NAK] ... 1444 [NAK]7th[NAK] 1445 [NAK]gear[NAK]		part text 3 105 lines Start at label "13 [NAK]", End at label "1445 [NAK]"
21 [NAK]melbourne \ australia[NAK] 22 [NAK]sepang \ malaysia[NAK] 23 [NAK]interlagos \ brazil[NAK] 24 [NAK]imola \ san marino[NAK] 25 [NAK]barcelona \ spain[NAK] 26 [NAK]al-ring \ austria[NAK] 27 [NAK]monte-carlo \ monaco[NAK] 28 [NAK]montreal \ canada[NAK] 29 [NAK]nurburgring \ europe[NAK] 30 [NAK]magny-cours \ france[NAK] 31 [NAK]silverstone \ great britain[NAK] 32 [NAK]hockenheim \ germany[NAK] 33 [NAK]hungaroring \ hungary[NAK] 34 [NAK]spa-francorchamps \ belgium[NAK] 35 [NAK]monza \ italy[NAK] 36 [NAK]indianapolis \ united states[NAK] 37 [NAK]suzuka \ japan[NAK]	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	track\country list in f1 seasons order delimiter = " \ " (standard) town => tracktab row 1 country => tracktab row 2 (tracktab 2 will normally be filled with linkdata later)
43 [NAK]<LINK>SAVE<\LINK> <LINK>LOAD<\LINK> <LINK>EDIT NAMES<\LINK> [NAK] 1429 [NAK]<VARIABLE> drivers selected[NAK] 2130 [NAK]<VARIABLE>[NAK] 80 [NAK]free practise[NAK] ... 1661 [NAK]<LINK>LEAVE EVENT<\LINK> [NAK] 176 [NAK]track information[NAK] 950 [NAK]<LINK>INFO<\LINK> <LINK>TRACK DATA<\L ►		part text 4 161 lines Start at label "43 [NAK]" End at label "950 [NAK]"
951 [NAK]qualifying lap record: jacques villeneuve, 1997, williams, 1m 29.369 race lap record: heinz-harald frentzen, 1997, williams, 1m 30.585 2000 seasons results pole position: mika hakkinen, mclaren, 1m 30.556, 11 march 2000 fastest lap: rubens barrichello, ferrari, 1m 31.481, 12 march 2000 race winner: michael schumacher, ferrari[NAK] 952 [NAK]<VARIABLE>[NAK] 953 [NAK]qualifying lap record: mika hakkinen, 2000, mclaren, 1m 14.110 race lap record: michael schumacher, 2000, ferrari, 1m 14.750 qualifying lap record: mika hakkinen, 2000, mclaren, 1m 14.110 ...		track records 1-7 <u>section structure:</u> %label% [NAK] qualifying lap record: race lap record: 2000 seasons results: fastest lap: race winner:[NAK] Num track label 1 1 951 2 17 953 3 2 954 4 3 955 5 5 956 6 10 957 7 7 958 After labels 952 and 959: text row. <i>Text error in 2001 gpaedia; should be deleted</i>

<p>960 [NAK]melbourne corner data</p> <p>1: Ascari 3rd Gear 80mph/128kmh</p> <p>...</p> <p>16: Hill 2nd Gear 45mph/72kmh</p> <p>[NAK]</p> <p>...</p> <p>976 [NAK]sepang corner data</p> <p>1: Turn 1 Gear 2 53mph/85km/h</p> <p>...</p> <p>15: Turn 15 2nd Gear 65mph/106kmh</p> <p>[NAK]</p>	<p>corner data</p> <p><u>structure:</u> %label% [NAK] %corner num%: {%description%} %gear% %speed%</p> <p>[NAK]</p> <p><u>Num track label (960 to 976)</u></p> <table><tr><td>1</td><td>1</td><td>960</td></tr><tr><td>2</td><td>3</td><td>961</td></tr><tr><td>3</td><td>4</td><td>962</td></tr><tr><td>4</td><td>11</td><td>963</td></tr><tr><td>5</td><td>5</td><td>964</td></tr><tr><td>6</td><td>9</td><td>965</td></tr><tr><td>7</td><td>7</td><td>966</td></tr><tr><td>8</td><td>8</td><td>967</td></tr><tr><td>9</td><td>10</td><td>968</td></tr><tr><td>10</td><td>6</td><td>969</td></tr><tr><td>11</td><td>12</td><td>970</td></tr><tr><td>12</td><td>13</td><td>971</td></tr><tr><td>13</td><td>14</td><td>972</td></tr><tr><td>14</td><td>15</td><td>973</td></tr><tr><td>15</td><td>16</td><td>974</td></tr><tr><td>16</td><td>17</td><td>975</td></tr><tr><td>17</td><td>2</td><td>976</td></tr></table>	1	1	960	2	3	961	3	4	962	4	11	963	5	5	964	6	9	965	7	7	966	8	8	967	9	10	968	10	6	969	11	12	970	12	13	971	13	14	972	14	15	973	15	16	974	16	17	975	17	2	976
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<p>977 [NAK]qualifying lap record: michael schumacher, 1997, ferrari, 1m 18.095</p> <p>race lap record: mika hakkinen, 2000, mclaren, 1m 19.049</p> <p>2000 seasons results</p> <p>pole position: michael schumacher, ferrari, 1m 18.439, 17 june 2000</p> <p>fastest lap: mika hakkinen, mclaren, 1m 19.049, 18 june 2000</p> <p>race winner: michael schumacher, ferrari</p> <p>[NAK]</p> <p>...</p> <p>986 [NAK]qualifying lap record: michael schumacher, 2000, ferrari, 1m 37.397</p> <p>...</p> <p>race winner: mika hakkinen, mclaren</p> <p>[NAK]</p>	<p>track records 8-17</p> <p><u>section structure:</u> %label% [NAK] qualifying lap record: race lap record: 2000 seasons results: fastest lap: race winner:[NAK]</p> <p><i>In all other languages the order of the records is like race lap record: qualifying lap record: therefore this can be regarded as standard instead.</i></p> <p><u>Num track label</u></p> <table><tr><td>8</td><td>8</td><td>977</td></tr><tr><td>9</td><td>6</td><td>978</td></tr><tr><td>10</td><td>9</td><td>979</td></tr><tr><td>11</td><td>4</td><td>980</td></tr><tr><td>12</td><td>11</td><td>981</td></tr><tr><td>13</td><td>12</td><td>982</td></tr><tr><td>14</td><td>13</td><td>983</td></tr><tr><td>15</td><td>14</td><td>984</td></tr><tr><td>16</td><td>15</td><td>985</td></tr><tr><td>17</td><td>16</td><td>986</td></tr></table>	8	8	977	9	6	978	10	9	979	11	4	980	12	11	981	13	12	982	14	13	983	15	14	984	16	15	985	17	16	986																					
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179 [NAK]edit names[NAK] 180 [NAK]team name[NAK] 181 [NAK]engine name[NAK] ... 468 [NAK]realistic weather[NAK] 469 [NAK]custom weather[NAK] 470 [NAK]all the same[NAK]	part text 5 470 lines Start at label "179 [NAK]" End at label "470 [NAK]"
471 [NAK]1998 levels[NAK] 472 [NAK]random[NAK] 1071 [NAK]2000 levels[NAK] 1240 [NAK]<VARIABLE> mins[NAK] ... 1247 [NAK]<VARIABLE>[NAK] 1557 [NAK]2001 levels[NAK] 1651 [NAK]race weekend[NAK] ... 1672 [NAK]Sets the race distance (in laps) as a percentage of the actual race distance for the 2001 season.[NAK] 2164 [NAK]Choose the players position on the grid ▶ 2165 [NAK]The computer will provide a realistic we ▶ 2166 [NAK]Allow you to choose the chance of a wet ▶ 2167 [NAK]Sets the chance of rain occuring in a ra ▶ 2168 [NAK]'Hot Seat' racing allows players to take ▶ 2169 [NAK]All the teams and drives have the same p ▶ 2170 [NAK]The teams have performance based on their achievements in the 2001 season.[NAK]	part text 6 25 lines Start at label "471 [NAK]" End at label "2170 [NAK]" Five lines are patched by the program with the value of the current season given in the INI file.
2171 [NAK]There is a random distribution of perfor ▶ 2172 [NAK]In multiplayer games only the players ca ▶ ... Use this screen to check your plank and tyre wear. ▶	part text 7 625 lines Start at label "2171 [NAK]" End before label "666 [NAK]"
667 [NAK]Brazil Interlagos Address: Avenida Senedor Teotonio, Vilela 261, 01000-000 Sao Paulo BRAZIL 2001 GP: April 1 2001 (72 laps) 2000 Results: 1) Michael Schumacher - Ferrari 2) Giancarlo Fisichella - Benetton 3) Heinz-Harald Frentzen - Jordan 4) Jarno Trulli - Jordan 5) Ralf Schumacher - Williams 6) Jenson Button - Williams Race Lap Record: Michael Schumacher, 2000, Ferrari, 1m 14.750 Qualifying Lap Record: Mika Hakkinen, 2000, McLaren, 1m 14.110 First GP: 1973 Number of GPs held: 19 Circuit Length: 2.679 Miles/4.292km Circuit Info: Bumpy track surface, ... [NAK] ... 684 [NAK]Malaysia Sepang ... Circuit Info: Smooth track surface, ...	track gpaedia <u>section structure:</u> %label% [NAK]%circuit name% Address: 2001 GP: 2000 Results: Race Lap Record: Qualifying Lap Record: First GP: Number of GPs held: Circuit Length: Circuit Info: => %trackinfo textfile% [NAK] <u>Num track label</u> 1 1 666 2 3 667 3 4 668 4 11 671 5 5 672 6 9 673 7 7 674 8 8 675 9 10 676 10 6 677 11 12 678 12 13 679 13 14 680 14 15 681 15 16 682 16 17 683 17 2 684

<div>685 [NAK]Chairman & CEO: Ron Dennis Technical Director: Adrian Newey Drivers: Mika Hakkinen, David Coulthard Team Nationality: British Team Base: Feltham, Colnbrook & Woking, UK Number of years in F1: 34 Number of wins: 129 Number of drivers titles: 11 Number of constructors titles: 8 [NAK] ...</div> <div>695 [NAK]Team Principal: Craig Pollock Technical Director: Malcolm Oastler Drivers: Jacques Villeneuve, Olivier Panis Team Nationality: British/USA Team Base: Northants, UK Number of years in F1: 2 Number of wins: 0 Number of drivers titles: 0 Number of constructors titles: 0 [NAK]</div>	<div>team gpaedia</div> <div>structure: %label% [NAK]Team Principal:* Technical Director:* Drivers: Team Nationality: Team Base: Number of years in F1: Number of wins: Number of driver titles: Number of constructor titles * Alternative names used</div> <div><div>Num team label</div><table><tr><td>1</td><td>2</td><td>685</td></tr><tr><td>2</td><td>1</td><td>686</td></tr><tr><td>3</td><td>6</td><td>687</td></tr><tr><td>4</td><td>9</td><td>688</td></tr><tr><td>5</td><td>3</td><td>689</td></tr><tr><td>6</td><td>4</td><td>690</td></tr><tr><td>7</td><td>11</td><td>691</td></tr><tr><td>8</td><td>8</td><td>692</td></tr><tr><td>9</td><td>7</td><td>693</td></tr><tr><td>10</td><td>10</td><td>694</td></tr><tr><td>11</td><td>5</td><td>695</td></tr></table></div>	1	2	685	2	1	686	3	6	687	4	9	688	5	3	689	6	4	690	7	11	691	8	8	692	9	7	693	10	10	694	11	5	695																																				
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11	5	695																																																																				
<div>696 [NAK]Team: McLaren Mercedes Date of Birth: 28/9/1969 Nationality: Finnish Residence: Monaco Grand Prix Starts: 145 Points Scored: 383 Best Result: 18 wins Best Qualifying: 26 Poles First GP: USA 1991 2000 Championship Position: 2nd Previous Teams: Lotus [NAK] ...</div> <div>716 [NAK]Team: BAR Honda Date of Birth: 9/4/1971 Nationality: Canadian Residence: Monaco Grand Prix Starts: 82 Points Scored: 197 Best Result: 11 wins Best Qualifying: 13 poles First GP: Australia 1996 2000 Championship Position: 7th Previous Teams: Williams [NAK] ...</div> <div>1130 [NAK]Team: Williams BMW ...</div> <div>1477 [NAK]Team: Prost Acer ... Previous Teams: N/A</div>	<div>driver gpaedia</div> <div>structure: %label% [NAK]Team: Date of Birth: Nationality: Residence: Grand Prix Starts: Points scored: Best Result: Best Qualifying: First GP: 2000 Championship Position: Previous Teams:</div> <div><div>Num driver label</div><table><tr><td>1</td><td>3</td><td>696</td></tr><tr><td>2</td><td>4</td><td>697</td></tr><tr><td>3</td><td>1</td><td>698</td></tr><tr><td>4</td><td>2</td><td>699</td></tr><tr><td>5</td><td>12</td><td>701</td></tr><tr><td>6</td><td>17</td><td>702</td></tr><tr><td>7</td><td>5</td><td>704</td></tr><tr><td>8</td><td>8</td><td>705</td></tr><tr><td>9</td><td>7</td><td>706</td></tr><tr><td>10</td><td>11</td><td>708</td></tr><tr><td>11</td><td>15</td><td>709</td></tr><tr><td>12</td><td>18</td><td>712</td></tr><tr><td>13</td><td>13</td><td>713</td></tr><tr><td>14</td><td>9</td><td>716</td></tr><tr><td>15</td><td>6</td><td>1130</td></tr><tr><td></td><td>-</td><td>1134</td></tr><tr><td>16</td><td>16</td><td>1135</td></tr><tr><td>17</td><td>14</td><td>1136</td></tr><tr><td>18</td><td>19</td><td>1137</td></tr><tr><td>19</td><td>10</td><td>1138</td></tr><tr><td>20</td><td>21</td><td>1272</td></tr><tr><td>21</td><td>20</td><td>1451</td></tr><tr><td>22</td><td>22</td><td>1477</td></tr></table></div>	1	3	696	2	4	697	3	1	698	4	2	699	5	12	701	6	17	702	7	5	704	8	8	705	9	7	706	10	11	708	11	15	709	12	18	712	13	13	713	14	9	716	15	6	1130		-	1134	16	16	1135	17	14	1136	18	19	1137	19	10	1138	20	21	1272	21	20	1451	22	22	1477
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719 [NAK]<LINK>drivers<\LINK> [NAK] 949 [NAK]<LINK>GPAEDIA MAIN MENU<\LINK> <LINK>RETURN TO GAME SCREENS<\LINK> [NAK]	part text 8 2 lines processed before driver label 1130																																																																																																																																																												
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last update 26.03.2022