

# Export Standardized Figure GUI

Export Standardized Figure

— □ ×

## Figure Export Settings

Figure Name:

IPT Name: 

⌵

Auto name

Select Figure: 

No figures open ⌵

Update Figures

Update preview

Flags

☒ Add Markers

☒ Change Colors

☐ Change Line Style

☒ Show Grid

☐ Satellite Map Colors

Export setting

☒ Export PDF

☐ Export FIG

☐ Overwrite

Legend

Location: 

southoutside ⌵

Orientation: 

horizontal ⌵

Width/Height Ratio: 

0

Forced Markers: 

0

Percentage of Text Width: 

0.75

Reset

Export Figure

Save settings

Import settings

Reset All

# General settings

Figure Name:

IPT Name:

Auto name

Select Figure:

No figures open

Update Figures

Update preview

On the first row you can find:

- Text box for figure **name**: give the name of your plot but do not add the extension! Export settings will do it for you.
- Dropdown menu for **selecting the ipt**. *This is storngly recomended when wrtiting technical report*
- **Autoname button**: it automatically types in figure name field "plot" for you. This is mandatory because a figure with empty name cannot be exported.

On the second row you can find

- Dropdown menu with the **list of all figures**: if no figure is opened, it will show "*No figures open*". Otherwise by clicking on it you would find the list of all opened figures.

**NOTE:** figures with tab will be treated as separated figures! By clicking on the figure which has tabs the GUI will separate them and you will be able to export them separately.

- Two buttons:
  - **Update Figures:** this button updates the list of figures if others are opened after the GUI started.
  - **Update Preview:** this button updates the preview of the graphical changes directly on you figure

**IMPORTANT:** while opening GUI and while pressing Update figure this message will appear in command window:

```
Temporary .fig available in temp folder
```

This means that in `temp` folder you can find the original figure and you can click it to restore the figure

# Flags



### Flags

☒ Add Markers

☒ Change Colors

☐ Change Line Style

☒ Show Grid

☐ Satellite Map Colors

There are different types of flags you can select:

- **Add Markers:** by default is `true` . it will add by default as many markers as many point compose the plotted curve
- **Change Colors:** by default is `true` . it will change the colors from Matlab default to Export-standard ones
- **Change Line Style:** by default is `false` . it will change the style off all curves plotted, the style will be different for each line
- **Show Grid:** by default is `true` . shows grid in figure, whatever type (dafault or minor)
- **Stellite Map Colors:** by default is `false` . This flag will be *automatically* set to true for geoplots, and this should be activated together with Change Colors color flag. The colors of geoplots are changes due to contrast of maps.

## Export settings

### Export setting



Export PDF



Export FIG



Overwrite

Default value is `.pdf` format.

You can export by choosing `.fig` or `.pdf` format, by respectively choosing **Export PDF** or **Export FIG** flags. If you want to export again a figure, by checking **Overwrite** flag, your figure will be automatically substituted by the new one.

If you don't check **Overwrite** flag, it will be created a new figure or pdf with the same name + date time.

## Legend

### Legend

Location:

southoutside ▼

Orientation:

horizontal ▼

Here you find two dropdown menus in which you can modify the position of the legends itself and of the legend labels.

- **Location:** by default is `southwestoutside` . You can choose among the ones below

```
legendPositions = {'north', 'south', 'east', 'west', ...  
                  'northeast', 'northwest', 'southeast', 'southwest', ...  
                  'northoutside', 'southoutside', 'eastoutside', 'westoutside', ...  
                  'northeastoutside', 'northwestoutside', 'southeastoutside', 'southwestoutside', ...  
                  'best', 'bestoutside'};
```

- **Orientation:** by default is `horizontal` . It will set the distribution of legend labels inside the legend box according to the number of labels.



**Bottom part**

Width/Height Ratio:

Forced Markers:

Percentage of Text Width:

Reset

- **Width/Height Ratio:** by default is set to 0. By modifying it you obtain different proportions on your figure.
- **Forced Markers:** by default is set to 0. You can set the number of markers you want in your curve *independently by the number of elements*. To do so Forced Markers should be true, otherwise you will get a warning and no markers are added.

Warning: addMarker is false and forcedMarkers is true: markers are not displayed

- **Percentage of Text Width:** by default is set to 0.75, which means the figure will be exported in a format which is 75% of text width for *Latex* documents. You can change it, be sure not to put >1 values!

Error using exportStandardizedFigure  
figure width is larger than the page!

- **Reset button:** you can reset to default properties of these 3 input fields. To reset all click Reset All (red button below).

**Export**

Export Figure

Save settings

Import settings

Reset All

- If you click on **Export Figure** button and everything is okay you would get a succesfull message and you figure will be saved in the **current directory**.

This is the line you need to add in *Latex* document to include your figure:

Figure saved successfully!

text to copy:

```
{'\includegraphics[width=0.75\textwidth]{<add figure path>\prova.pdf}'} }
```

- **Save settings** button. If you click it you can save the options you selected into a `.json` file. This file is stored in `settings` folder.

```
{  
  "addMarkers": false,  
  "changeColors": true,  
  "changeLineStyle": false,  
  "gridOption": false,  
  "satelliteMapColors": true,  
  "legendLocation": "southoutside",  
  "legendOrientation": "horizontal",  
  "exportPDF": true,  
  "exportFIG": false,  
  "overwriteFigure": false,  
  "percTextwidth": 0.75,  
  "forcedMarkers": 0,  
  "WHratio": 0  
}
```



- **Import settings** button. When you click it you can select only `*.json` files from settings folder or whatever folder ypu saved your settings and the options will be applied.
- **Reset All** button. This button resets all properties to default values. The default values are listed in the dedicated sections.