

## Silent Installation

### Version 2.16 and Newer

The current version of Flowgorithm uses the Microsoft Installer. If you want to use a silent install (e.g., lab computers), please use the following arguments.

```
Setup /quiet
```

### Version 2.15 and Older

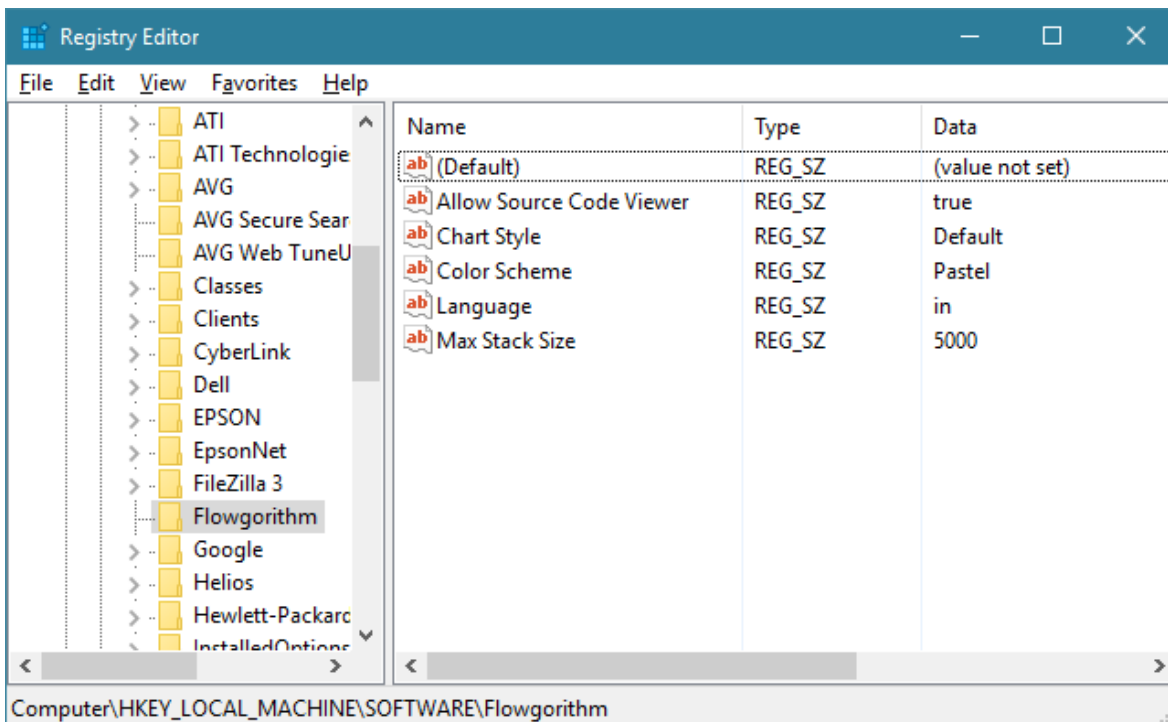
Flowgorithm uses InstallShield. If you want to use a silent install (e.g., lab computers), please use the following arguments. NOTE: the spacing is significant for the /v option.

```
Setup /s /v" /qn"
```

## Windows Registry Settings

### About

Flowgorithm versions 1.8 (and later) use the registry to store user settings. These include the application's language, colors, chart style, and the maximum size of the internal stack.



### Administrator-Only Keys

The following three settings cannot be changed (or seen) by the user. They will only be accessed from the LOCAL\_MACHINE hive.

HKEY_LOCAL_MACHINE\Software\Flowgorithm			
Key	Default	App Can Change?	Description
Max Stack Size	5000	No	Contains the maximum size of the stack. If the application exceeds this size, it will display a Stack Overflow Error. This setting cannot be changed from within the application. In practice, this value should never be reached unless the programmer creates an infinite recursive call.
Allow Source Code Viewer	True	No	If set to False, the Source Code Viewer will be hidden. It will not appear on the toolbar, in the main menu, or the Layout Windows tool.
Error Auto Wait	True	No	If set the true (default), the system will pause if the same exact error occurs twice in a row. The "Ok" button on the Error Window will take 5 seconds before it can be clicked. This can prevent the student from nonchalantly closing the window (without bothering to read it).

## User-Only Keys

The following keys will only be applied to CURRENT\_USER. Even if the application is open in Administrator Mode, these will be saved to the current user hive.

HKEY_CURRENT_USER\Software\Flowgorithm			
Key	Default	App Can Change?	Description
MRU 0	Null string	Yes	Most recently used file list.
MRU 1	Null string	Yes	Most recently used file list
MRU 2	Null string	Yes	Most recently used file list
MRU 3	Null string	Yes	Most recently used file list
MRU 4	Null string	Yes	Most recently used file list

## Standard Registry Keys

### About

Flowgorithm uses both CURRENT\_USER and LOCAL\_MACHINE. If settings are not found in CURRENT\_USER, it checks LOCAL\_MACHINE. The hive paths are identical. So, Flowgorithm it will look for settings in the following order:

1. CURRENT\_USER
2. LOCAL\_MACHINE

If the application is started in Administrator Mode, Flowgorithm will save its settings to LOCAL\_MACHINE. Otherwise, it will store them in CURRENT\_USER.

So, if you want to set defaults for all users in the lab, please open the application in Administrator Mode and set the language, colors, etc... Any new user (who does not have user settings set), will use these defaults.

### Root Folder

<Hive>\Software\Flowgorithm			
Key	Default	App Can Change?	Description

Chart Style	Default	Yes	Contains the name of the current chart style such as "Default", "Classic", etc... If the value of this key is not recognized, the application will use "Default". If the user loads a chart style file, this key will be set to "Custom" and color values will be read from a "Shapes" subfolder of the Flowgorithm folder.
Color Scheme	Pastel	Yes	Contains the name of the current color scheme such as "Pastel", "Cyberspace", etc... If the value of the key is invalid, the application will default to "Pastel". If the user loads a color scheme file, this key will be set to "Custom" and color values will be read from a "Color" subfolder of the Flowgorithm folder.
Language	en	Yes	Contains the ISO language code of the displayed language. If invalid, it will default to "en" (English).

## Printer Registry Folder

In version 2.6.0, and later, Flowgorithm saves printer information to the registry.

<Hive>\Software\Flowgorithm\Printer			
Key	Default	App Can Change?	Description
Landscape	False	Yes	Boolean value that specifies if the printer will default of landscape (true) or portrait (false).
Margin Bottom	0.75	Yes	Margin in inches.
Margin Left	0.75	Yes	Margin in inches.
Margin Right	0.75	Yes	Margin in inches.
Margin Top	0.75	Yes	Margin in inches.
Name		Yes	Name of the last printer used.

## Source Code Viewer Registry Folder

In version 2.12.0, and later, Flowgorithm saves keys about the current language and line numbers

<Hive>\Software\Flowgorithm\Source Code Viewer			
Key	Default	App Can Change?	Description
Language	Auto	Yes	The name of the current programming language that the Source Code Viewer will use to generate code.
Line Numbers	false	Yes	If the window displays line numbers

## Color Scheme Registry Folder

Customizable color schemes were added in version 2.5.

If the user loads a color scheme file (or edits the current one using the application), the "Color Scheme" key is set to "Custom" and colors are stored in "Colors" subfolder of Flowgorithm. If the main "Color Scheme" is set to anything else, these keys are ignored.

<Hive>\Software\Flowgorithm\Colors			
Key	Default	App Can Change?	Description
Name	n/a	Yes	Name of the current custom color scheme. This is displayed on dropdown controls
About	n/a	Yes	Short description of the color scheme.

Author	n/a	Yes	The Author of the chart style.
Assign	n/a	Yes	Assignment shape colors
Breakpoint	n/a	Yes	Breakpoint shape colors
Call	n/a	Yes	Call shape colors
Comment	n/a	Yes	Comment shape colors
Declare	n/a	Yes	Declare shape colors
Error	n/a	Yes	Shape error colors
Executing	n/a	Yes	Shape executing colors
Header	n/a	Yes	Add Shape Menu and Line Numbers (source code viewer)
Hover	n/a	Yes	Mouseover effect in the Add Shape Menu
If	n/a	Yes	If shape colors
Incomplete	n/a	Yes	Shape incomplete colors
Input	n/a	Yes	Input shape colors
Line	n/a	Yes	Line colors
Loop	n/a	Yes	Loop shape (For, While, Do) colors
Output	n/a	Yes	Output shape colors
Page	n/a	Yes	The background colors
Selected	n/a	Yes	Shape selection colors
Terminator	n/a	Yes	Terminator shape colors
Window	n/a	Yes	Edit window background colors

## Shapes Folder

Customizable color schemes were added in version 2.18.

If the user loads a chart style file (or edits the current one using the application), the "Chart Style" key is set to "Custom" and shape information is stored in the "Shapes" subfolder of Flowgorithm. If the main "Chart Style" is set to anything else, these keys are ignored.

<Hive>\Software\Flowgorithm\Shapes			
Key	Default	App Can Change?	Description
Name	n/a	Yes	Name of the current chart style. This is displayed on dropdown controls
About	n/a	Yes	Short description of the color scheme.
Author	n/a	Yes	The Author of the chart style.
Assign	n/a	Yes	The shape used for Assign.
Call	n/a	Yes	The shape used for Call.
Declare	n/a	Yes	The shape used for Declare.
Do	n/a	Yes	The shape used for Do.
End	n/a	Yes	The shape used for the end of a flowchart.

For	n/a	Yes	The shape used for For.
If	n/a	Yes	The shape used for If.
Input	n/a	Yes	The shape used for Input.
Start	n/a	Yes	The shape used for the start of a flowchart.
Output	n/a	Yes	The shape used for Output.
While	n/a	Yes	The shape used for While.