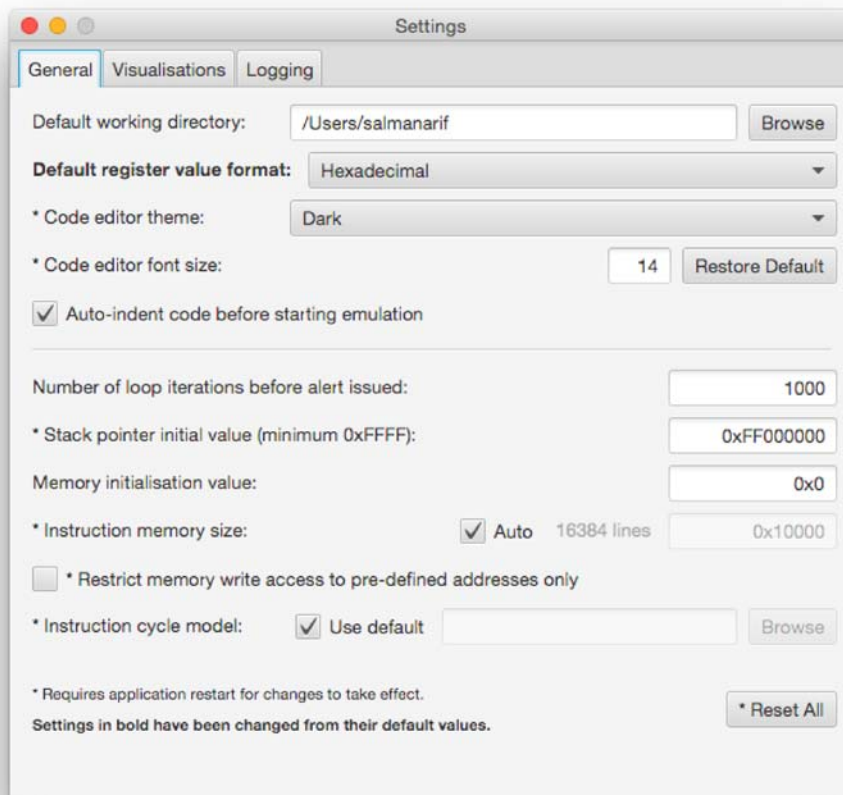# Settings Panel

The settings panel provides access to configuration options for VisUAL. It is divided into 3 sections: General, Visualisations and Logging. You can reset all settings to default if needed using the `Reset All` button.
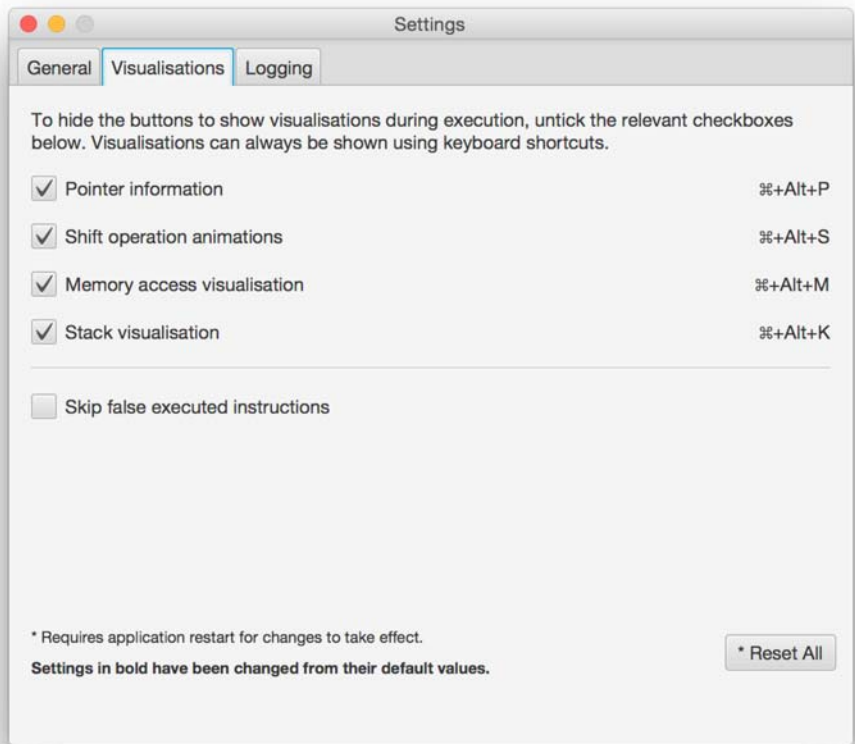
General Settings

Change emulation and user interface settings here.

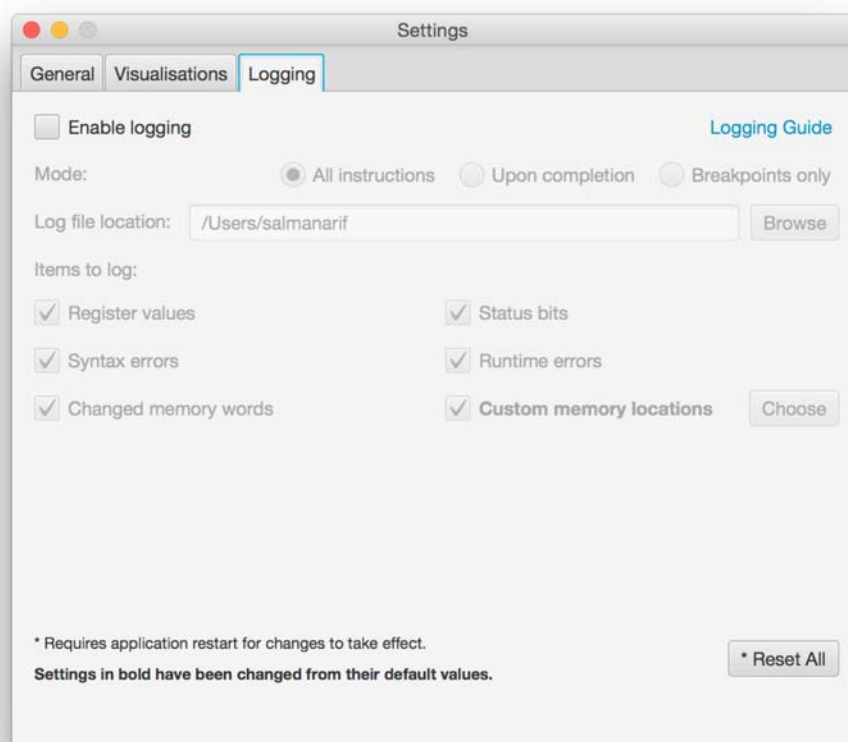| Setting	Description	Default
Default working directory	Directory shown when using `Save` or `Open` buttons	User home directory
Default register value format	Choose register format to use for all registers on startup and reset	Hexadecimal
Code editor theme	Select between the dark and light code editor themes	Dark
Code editor font size	Change the code editor font size	`14pt`
Number of loop iterations before alert issues	Specify infinite loop detection threshold	`1000`
Stack pointer initial value	Specify value for `R13 (SP)` set on startup and reset	`0xFF000000`
Memory initialisation value	Specify value used to initialise unused memory locations	`0x00000000`
Instruction memory size	Specify the size of the instruction [memory map](#) region	Auto
Restrict memory write access to pre-defined addresses only	If enabled, only locations defined using `DCD`, `DCB` or `FILL` can be written to.	Disabled
Instruction cycle model	Specify the cycle model to use to count instruction cycles. By default, the cycle model provided in the [cycle models](#) user guide page is used.	Use default

Visualisation Settings

Choose which visualisations should be displayed automatically. Disabled visualisations can still be viewed using keyboard shortcuts. All visualisations are enabled by default.

Setting	Description	Shortcut
Pointer information	Toggle the pointer visualisation button	`Shortcut+Alt+P`
Shift operation animations	Toggle the shift operation visualisation button	`Shortcut+Alt+S`
Memory access visualisation	Toggle the memory access visualisation button	`Shortcut+Alt+M`
Stack visualisation	Toggle the stack visualisation button	`Shortcut+Alt+K`
Skip false executed instructions	If enabled, instructions predicated false will not be shown in step-by-step debugging mode during emulation	`N/A`

Logging Settings

Provides access to enable logging in GUI mode. Logging is disabled by default here. See the logging guide for details on the logging feature.