Chameleon 2.0 Users Guide

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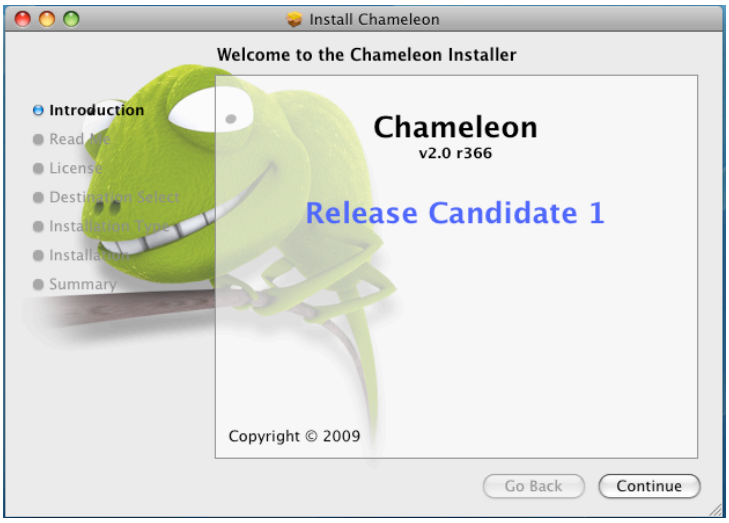
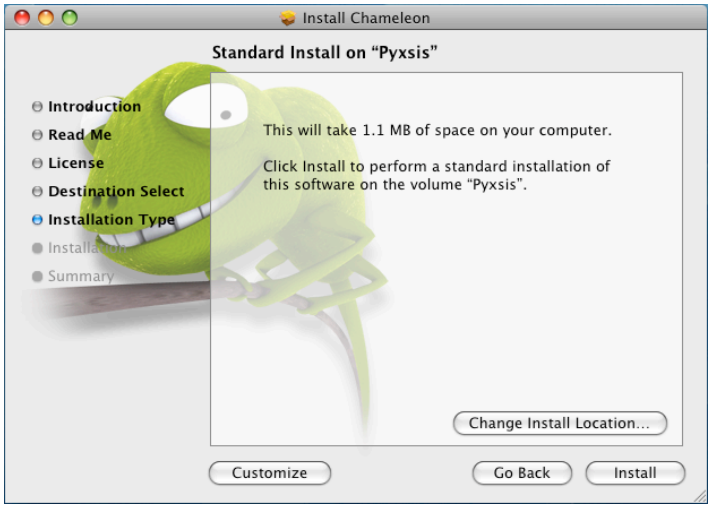
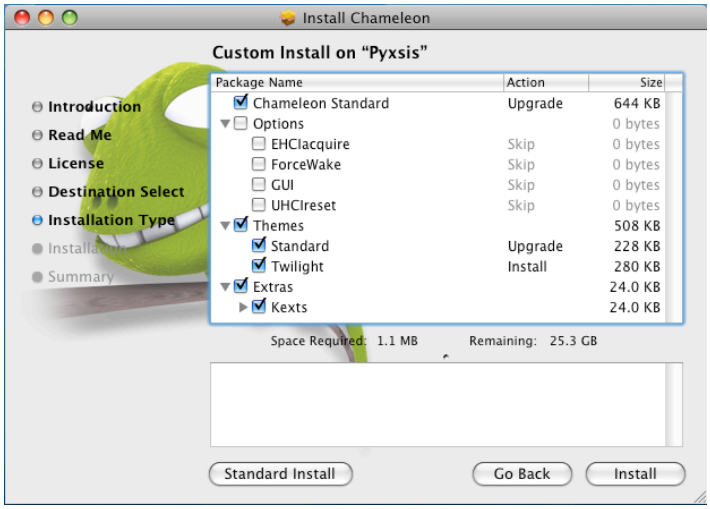
Launching the Chameleon 2 installer:



You have the option of selecting “Install” using the default settings, “Customize” to pick addition options or “Change Install Location” to pick a different volume to install to.



If you select Customize you have the option of selecting different themes or variables to be passed at boot time to the kernel



Options

EHCIacquire	Can fix some rare USB issues on boot.
ForceWake	Cleans the hibernate image on resume
GUI	GUI bootloader on or of
UHCIreset	Reset USB for some rare USB issues on boot

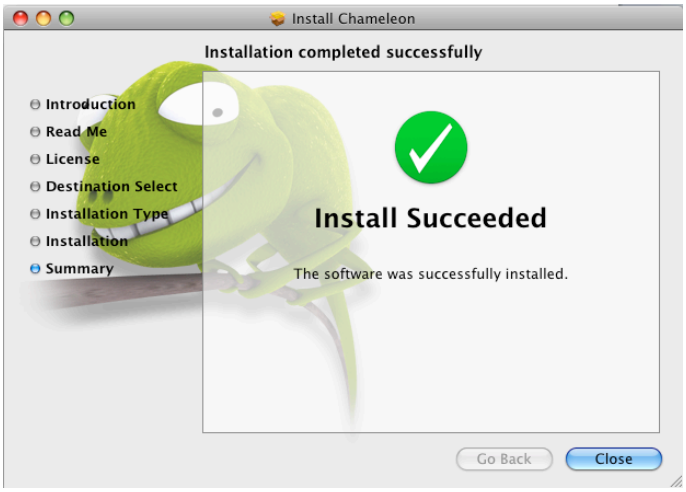
Themes

Default theme and Twilight are offered as examples for you to use ,

Extras

Kexts for AHCI and Intel PIIXATA that will get installed into /Extra

Finishing Chameleon install



if you see this screen, your done, reboot and watch your computer load the new Chameleon and enjoy the extra features that it has over the previous versions!

Booting

Chameleon is setup to automatically boot your operating system with the default settings but has the ability to pass variables to the kernel. You can pass startup options to the kernel by pressing any key when you see the boot logo and the type them to be sent to the operating system after you hit enter.

Advanced startup options use the following syntax:

[device]<kernel> [arguments]

Example arguments include

device: rd= device name> rd=*<IODeviceTree path>

(Device name sample rd=/dev/disk0s2)
(Device tree sample rd=*/PCI0@0/CHN0@0/@0:1)

Kernel: Sometimes you need to use a different kernel for testing, or you need to use the old one after an install that didn't work the way you wanted it too =)

kernel: kernel name

Sample: mach_kernel.voodoo

Flags allow you pass arguments without having to make them a permemant config settings.
Examples of valid flags are:

-v (verbose)
-s (single user mode),
-x (safe mode)
-f (ignore boot configuration file)

"Graphics Mode"="WIDTHxHEIGHTxDEPTH" (e.g. "1024x768x32")

For VESA 3.0 graphics, you may append a refresh rate after an "@" character (e.g. "1280x1024x32@75")

kernel flags	(e.g. debug=0x144) io=0xffffffff defined in IOKit/IOKitDebug.h)

Example: mach_kernel rd=disk0s1 -v "Graphics Mode"="4096x4096x32@85"

If the computer won't start up properly, you may be able to start it up using safe mode.
Use the startup command “-x” to start up in safe mode, which ignores all cached driver files.

Special booter commands:

?memory	Displays information about the computer's memory
?video	Displays VESA video modes supported by the computer's BIOS.
?norescan	Leaves CD-ROM rescan mode.

Additional useful command-line options:

config=<file>	Use an alternate Boot.plist file.

Options useful in the com.apple.Boot.plist file:

"Boot Graphics"=Yes|No	Use graphics mode or text mode when starting.
"Quiet Boot"=Yes|No	Use quiet boot mode (no messages or prompt).
Timeout=8	Number of seconds to pause at the boot: prompt.
"Instant Menu"=Yes	Force displaying the partition selection menu.
GUI=No	Disable the GUI (enabled by default).
USBBusFix=Yes	Enable the EHCI and UHCI fixes (disabled by default).
EHCIacquire=Yes	Enable the EHCI fix (disabled by default).
UHCIreset=Yes	Enable the UHCI fix (disabled by default).
Wake=No	Disable wake up after hibernation (enbaled by default).
ForceWake=Yes	Force using the sleepimage (disabled by default).
WakeImage=<file>	Use an alternate sleepimage file (default path is /private/var/vm/sleepimage).
DropSSDT=Yes	Skip the SSDT tables while relocating the ACPI tables.
DSDT=<file>	Use an alternate DSDT.aml file (default paths are /DSDT.aml or /Extra/DSDT.aml).
Rescan=Yes	Enable CD-ROM rescan mode.
"Rescan Prompt"=Yes	Prompts for enable CD-ROM rescan mode.

Themes

Chameleon 2 lets you create or customize the bootloader themes! You can edit the file in /Extra/Themes/Default/theme.plist. The following variables are changeable in the theme.plist to customize your theme.

Screen

Set the display dimensions to use when in the graphic user interface, will attempt to find the closest one available.

screen_width

```
<key>screen_width</key>
<string>1024</string>
```
1024 pixels wide screen

screen_height

```
<key>screen_height</key>
<string>768</string>
```
768 pixels high screen

screen_bgcolor

```
<key>screen_bgcolor</key>
<string>#222334</string>
```
web format #RRGGBB

Background

Set the position of background.png within the screen

background_pos_x

```
<key>background_pos_x</key>
<string>-0</string>
```
0 pixels from reverse origin along the x axis

background_pos_y

```
<key>background_pos_y</key>
<string>-0</string>
```
0 pixels from reverse origin along the y axis

Logo

Set the position of logo.png within the screen

logo_pos_x

```
<key>logo_pos_x</key>
<string>0</string>
```
0 pixels from origin along the x axis

logo_pos_y

<key>logo_pos_y</key>
<string>0</string> 0 pixels from origin along the y axis

Devices

Set the position of the device list within the screen

devices_pos_x

<key>devices_pos_x</key>
<string></string> blank to center on the x axis

devices_pos_y

<key>logo_pos_y</key>

<string></string> blank to center on the y axis

devices_max_visible

<key>devices_max_visible</key> maximum number of devices visible

<string>4</string>

devices_icon_spacing

<key>devices_icon_spacing</key> spaces between the drive icons

<string>20</string>

devices_layout

<key>devices_layout</key>

<string>horizontal</string> horizontal or vertical list

devices_bgcolor

<key>devices_bgcolor</key>

<string>#000000</string> web format #RRGGBB

devices_transparency

<key>devices_transparency</key>
<string>128</string> 0 (Opaque) -> 255 (Transparent)

Bootprompt

Set the position of the bootprompt within the screen

bootprompt_pos_x

<key>bootprompt_pos_x</key>
<string></string> blank to center on the x axis

bootprompt_pos_y

<key>bootprompt_pos_y</key>
<string></string> blank to center on the y axis

bootprompt_width

<key>bootprompt_width</key>
<string>-20</string> 20 pixels less than the screen's width window

bootprompt_height

<key>bootprompt_height</key>
<string>20</string> 20 pixel high window

bootprompt_textmargin_h

<key>bootprompt_textmargin_h</key> 8 pixel horizontal text margin left and right
<string>8</string>

bootprompt_textmargin_v

<key>bootprompt_textmargin_v</key> 4 px vertical text margin both top and bottom
<string>4</string>

bootprompt_bgcolor

```
<key>bootprompt_bgcolor</key>
<string>0x333445</string>                web format #RRGGBB
```

bootprompt_transparency

```
<key>bootprompt_transparency</key>
<string>0</string>                       0 (Opaque) -> 255 (Transparent)
```

Infobox

Set the position of the infobox within the screen

infobox_pos_x

```
<key>infobox_pos_x</key>
<string></string>                        blank to center on the x axis
```

infobox_pos_y

```
<key>infobox_pos_y</key>
<string></string>                        blank center on the y axis
```

infobox_width

```
<key>infobox_width</key>
<string>550</string>                     550 pixels wide
```

infobox_height

```
<key>infobox_height</key>
<string>406</string>                     406 pixels high
```

infobox_bgcolor

```
<key>infobox_bgcolor</key>
<string>#333445</string>                 web format #RRGGBB
```

infobox_transparency

<key>infobox_transparency</key>

<string>64</string> 0 (Opaque) -> 255 (Transparent)

Menu

Set the position of the pop up menu within the screen

menu_pos_x

<key>menu_pos_x</key>

<string></string> center on the x axis

menu_pos_y

<key>menu_pos_y</key>

<string></string> center on the y axis

menu_bgcolor

<key>menu_bgcolor</key>

<string>#111223</string> web format #RRGGBB

menu_transparency

<key>menu_transparency</key>

<string>0</string> 0 (Opaque) -> 255 (Transparent)

Boot Display

Set the display dimensions to use when booting the kernel, will attempt to find the closest one available.

boot_width

```
<key>boot_width</key>
<string>1280</string>
```

1280 pixels wide screen

boot_height

```
<key>boot_height</key>
<string>1024</string>
```

1024 pixels tall screen