



RAZER BLACKWIDOW CHROMA V2

MASTER GUIDE

The Razer BlackWidow mechanical gaming keyboard was first launched in 2010 and quickly became the most popular and highest selling gaming keyboard worldwide, making its mark as the primary choice for esports athletes. Four years later, the Razer™ Mechanical Switch was introduced, giving the Razer BlackWidow an even greater advantage with the world's first mechanical switch designed from the ground up specifically for gaming. Powered by Razer Chroma™ backlighting, the **Razer BlackWidow Chroma V2** gives you the unbridled freedom to truly express yourself, not just with an impressive spectrum of colors but with personalized lighting controls as well.

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1. PACKAGE CONTENTS / SYSTEM REQUIREMENTS

PACKAGE CONTENTS

- Razer BlackWidow Chroma V2 gaming keyboard
- Ergonomic wrist rest
- Important Product Information Guide

SYSTEM REQUIREMENTS

- PC or Mac with a free USB port
- Windows® 7 / Mac OS X 10.9 (or higher)
- Internet connection
- 200 MB of free hard disk space

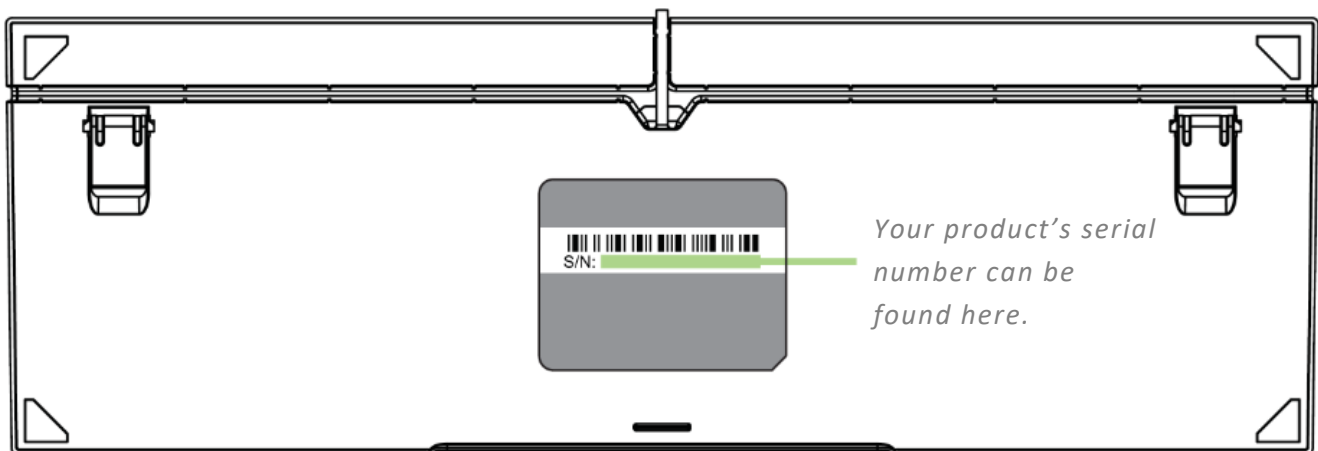
2. REGISTRATION / TECHNICAL SUPPORT

REGISTRATION

Visit razer.com/razer-id to sign up for a Razer ID now to get a wide range of Razer benefits. For example, get real-time information on your product's warranty status via Razer Synapse. To learn more about Razer Synapse and all its features, visit razer.com/synapse.

If you already have a Razer ID, register your product by clicking on your email address within the Razer Synapse application and select Warranty Status from the dropdown list.

To register your product online, visit razer.com/registration. Please note that you will not be able to view your warranty status if you register via the website.



TECHNICAL SUPPORT

What you'll get:

- 2 years limited keyboard manufacturer's warranty.
- 6 months limited wrist rest manufacturer's warranty.
- Free online technical support at support.razer.com.

3. TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

- Razer™ Mechanical Switches with 50 g actuation force
- 80 million keystroke life span
- Razer Chroma customizable backlighting with 16.8 million color options
- Ergonomic wrist rest
- Razer Synapse enabled
- 10 key roll-over anti-ghosting
- Fully programmable keys with on-the-fly macro recording
- Gaming mode option
- Cable management routing
- USB pass-through
- 1000 Hz Ultrapolling
- Braided fiber cable

APPROXIMATE SIZE & WEIGHT

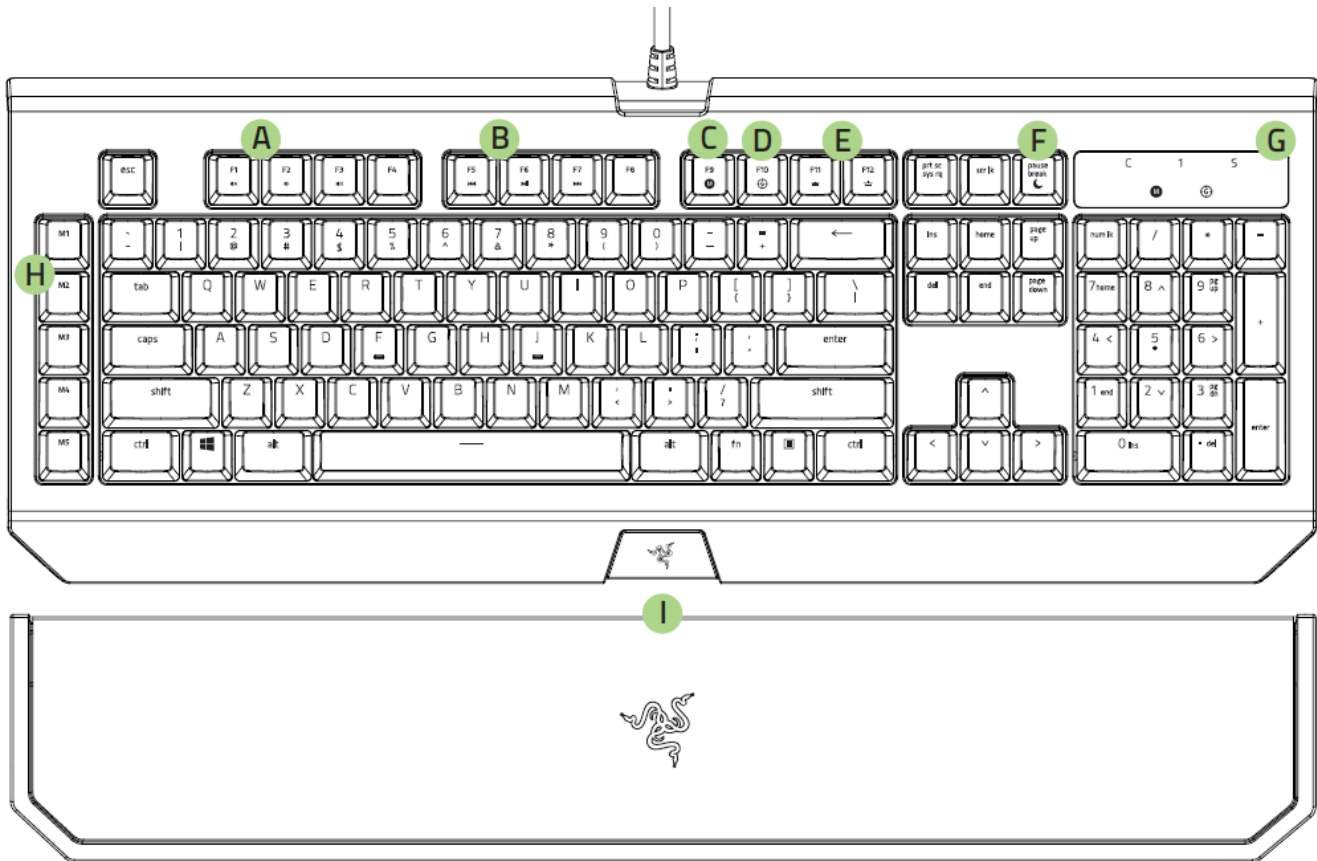
Without Wrist Rest

- Length: 484 mm / 19 in
- Width: 181.5 mm / 7.15 in
- Height: 42 mm / 1.22 in
- Weight: 1460 g / 3.22 lbs

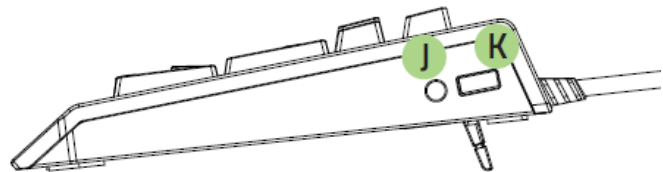
With Wrist Rest

- Length: 484 mm / 19 in
- Width: 246.8 mm / 9.71 in
- Height: 42 mm / 1.22 in
- Weight: 1700 g / 3.75 lbs

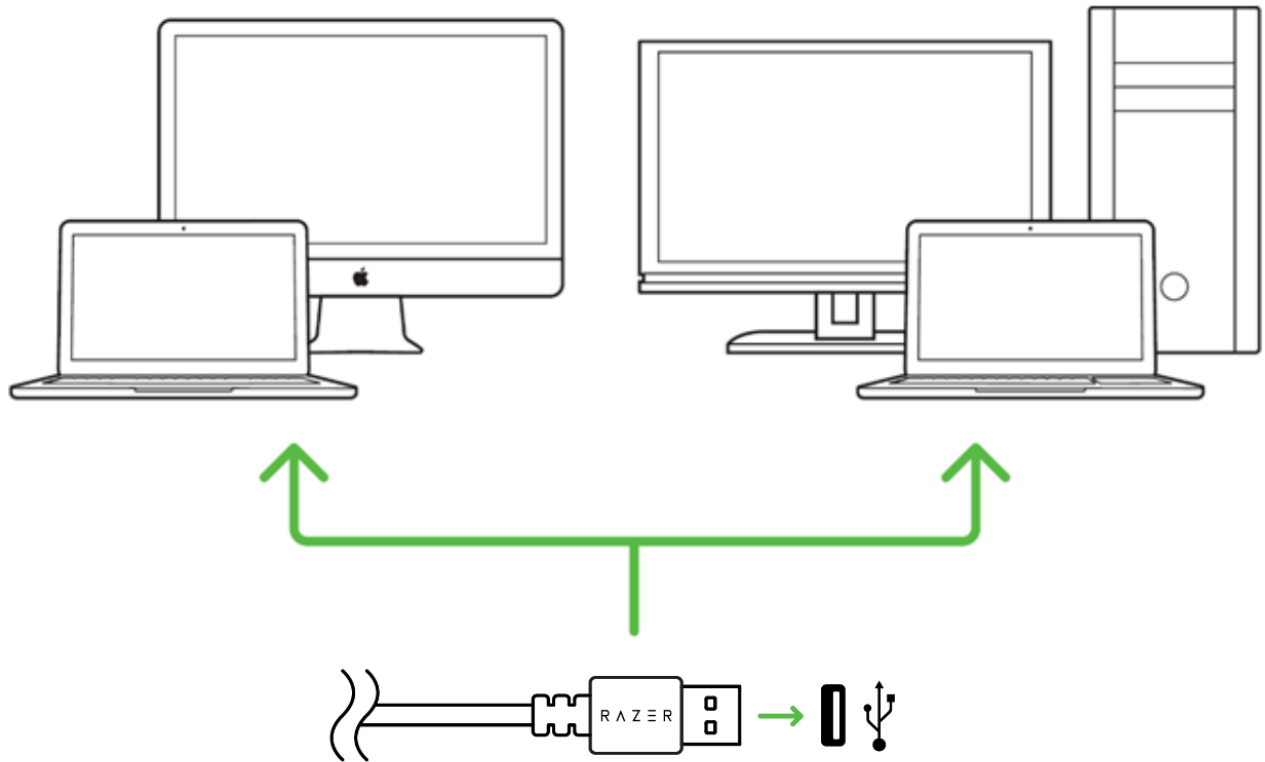
4. DEVICE LAYOUT



- A. Volume control keys
- B. Media keys
- C. On-The-Fly macro record key
- D. Gaming mode key
- E. Backlight control keys
- F. Sleep mode key
- G. LED indicators
- H. 5 macro keys
- I. Ergonomic wrist rest
- J. 3.5 mm combo port
- K. USB passthrough port



5. INSTALLING YOUR RAZER BLACKWIDOW CHROMA V2



Step 1: Connect your Razer device to the USB port of your computer.

Step 2: Install Razer Synapse when prompted* or download the installer from [razer.com/synapse](https://www.razer.com/synapse).

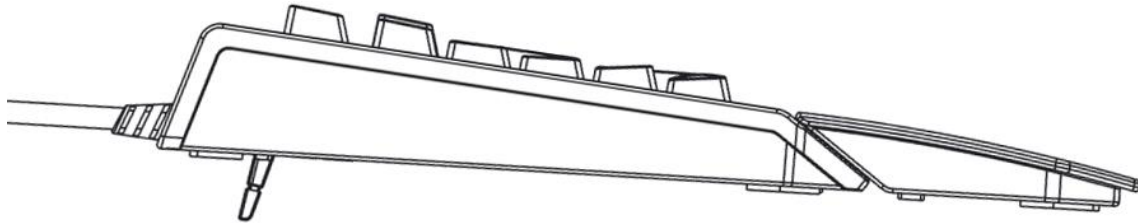
Step 3: Register for a Razer ID or log in to Razer Synapse with an existing account.

**Applicable for Windows 8 or later.*

6. SETTING UP YOUR RAZER BLACKWIDOW CHROMA V2

USING THE ERGONOMIC WRIST REST

Your Razer BlackWidow Chroma V2 comes with an ergonomic wrist rest equipped with a leather cushion designed to give all-out comfort during long hours of gameplay, and concealed magnetic connectors for easy installation and removal.



To install the wrist rest, simply position the wrist rest below your Razer BlackWidow Chroma V2, align its corresponding Razer logos and slide it in. The wrist rest will attach to your keyboard upon contact.

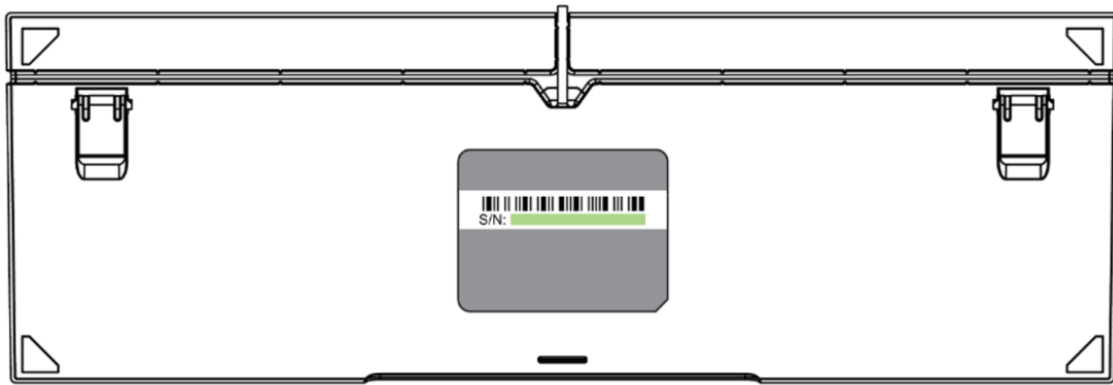
To remove the wrist rest, gently lift the wrist rest away from your keyboard.

USING THE 3.5 MM COMBO PORT & USB PASSTHROUGH

To use the built-in 3.5 mm combo and USB passthrough ports of your Razer BlackWidow Chroma V2, simply connect the USB connector and audio jack of your keyboard to your PC. You may now connect devices and/or headsets to your Razer BlackWidow Chroma V2.

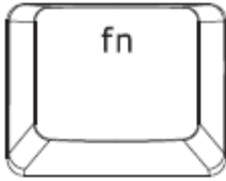


CABLE MANAGEMENT ROUTING



Found at the bottom of your Razer BlackWidow Chroma V2 is the cable management routing feature which allows you to tuck and redirect your keyboard's cable to the desired direction for a more organized feel. Simply tuck your keyboard's cord to the best direction that fits your need.

7. USING YOUR RAZER BLACKWIDOW CHROMA V2



Pressing the “FN” key in combination with the function keys will activate their secondary features on your PC. For Mac OS X, you do not need to press the “FN” key to activate the secondary features however, you will need to install Razer Synapse first before you can use these secondary features.

Function Keys	Features Description
	<p>The audio volume controls allow you to mute (), decrease () and increase () the audio output.</p>
	<p>The media keys allow you to play/pause () a track or skip tracks backward () and forward ().</p>
	<p>The backlight control keys allow you to decrease () or increase () the brightness of your keyboard’s LEDs.</p>
	<p>The sleep key allows you to suspend all operating system activities. This way you can save electricity while the computer is idle.</p>

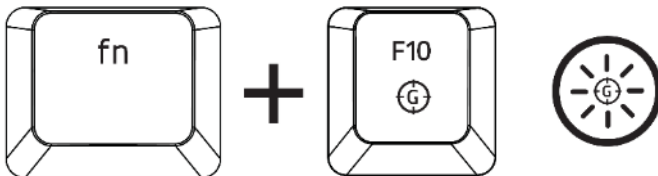
ON-THE-FLY MACRO RECORDING (PC)



Follow these steps to create an OTF Macro Recording:

1. Press the key combination to start recording.
2. The Macro Recording Indicator will light up to show that the device is ready to record.
3. Type in the keys you want to record.
4. Press the key combination to stop the recording or the ESC key to cancel recording. The Macro Recording Indicator will start blinking to show that the device has stopped recording and is ready to save the macro.
5. Press the desired key where you want to save your macro.

GAMING MODE (PC)



The Gaming Mode disables the Windows Key function to avoid accidental usage. Furthermore, you can maximize the effect of Anti-Ghosting by activating the Gaming Mode function. You can also choose to disable the Alt + Tab and Alt + F4 functions by using the Gaming Mode Tab in Razer Synapse. An indicator will light up when Gaming Mode is active.

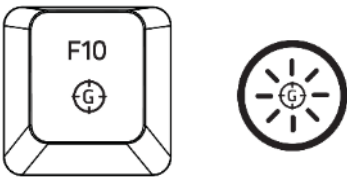
ON-THE-FLY MACRO RECORDING (MAC)



Follow these steps to create an OTF Macro Recording:

1. Press the key to start recording.
2. The Macro Recording Indicator will light up to show that the device is ready to record.
3. Type in the keys you want to record.
4. Press the Macro key to stop the recording or the ESC key to cancel the recording. The Macro Recording Indicator will start to blink to show that the device has stopped recording and is ready to save the macro.
5. Press the desired key where you want to save your macro.

GAMING MODE (MAC)



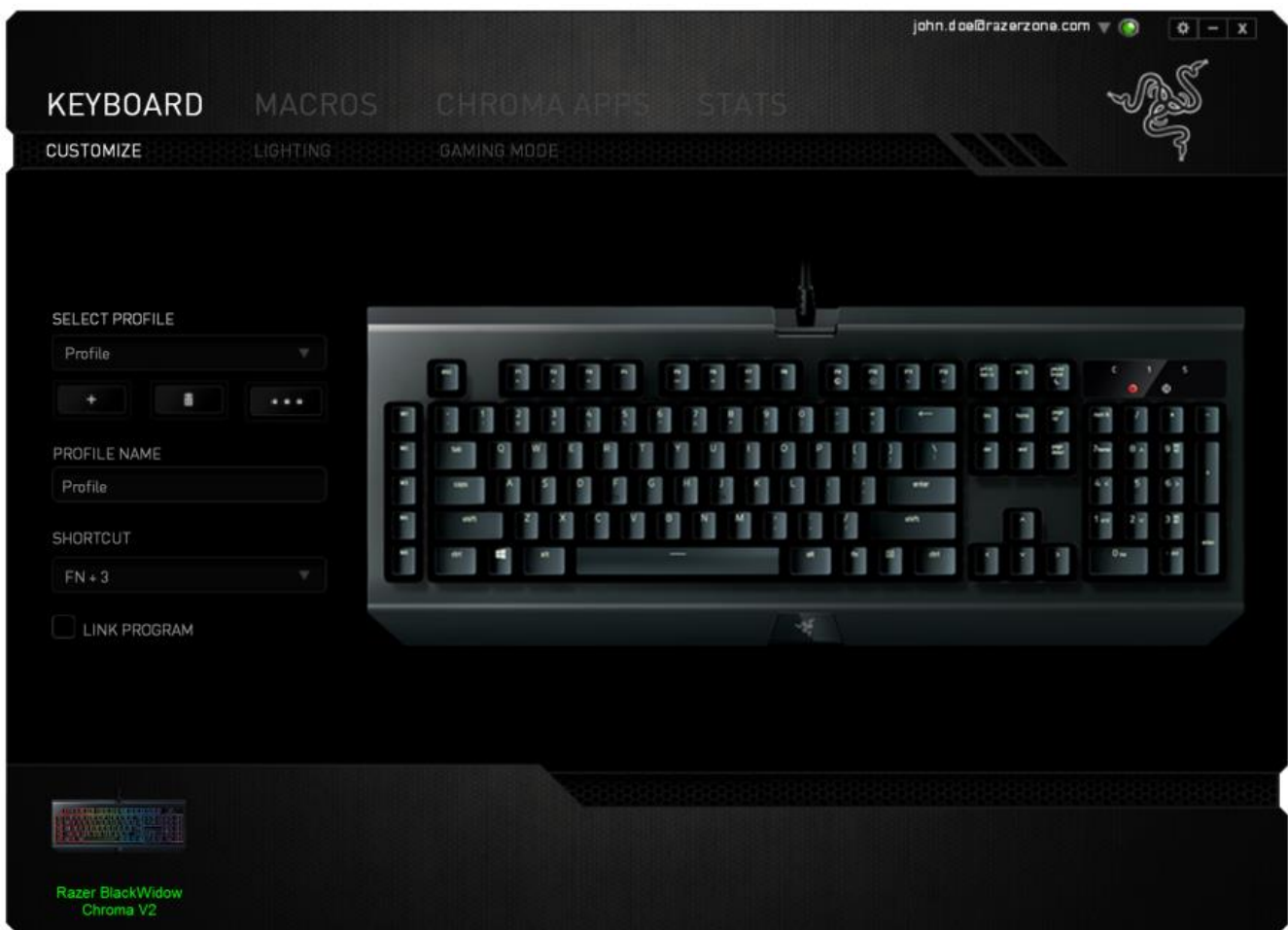
Activating the Gaming Mode allows you to toggle between the multimedia keys and the function keys as your primary function. An indicator will light up when Gaming Mode is turned ON. To turn the Gaming Mode OFF, press the Gaming Mode Key.

8. CONFIGURING YOUR RAZER BLACKWIDOW CHROMA V2

i *Disclaimer: The features listed here require you to log in to Razer Synapse. These features are also subject to change based on the current software version and your Operating System.*

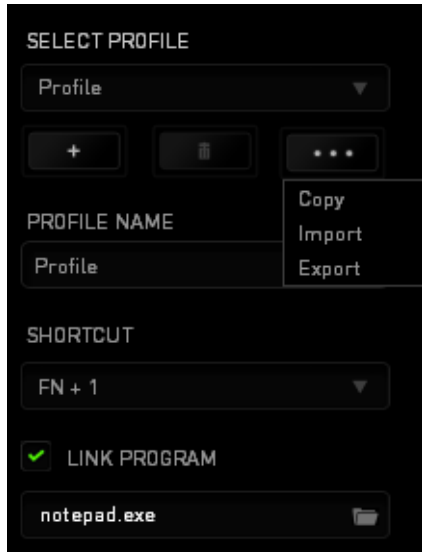
KEYBOARD TAB




The Keyboard Tab is your default tab when you first install Razer Synapse. This tab allows you to customize your device's profiles and key assignments.



Profile

A profile is a convenient way of organizing all your custom settings and you can have an infinite number of profiles at your disposal. Any changes made within each tab are automatically saved to the current profile and stored into the cloud servers.

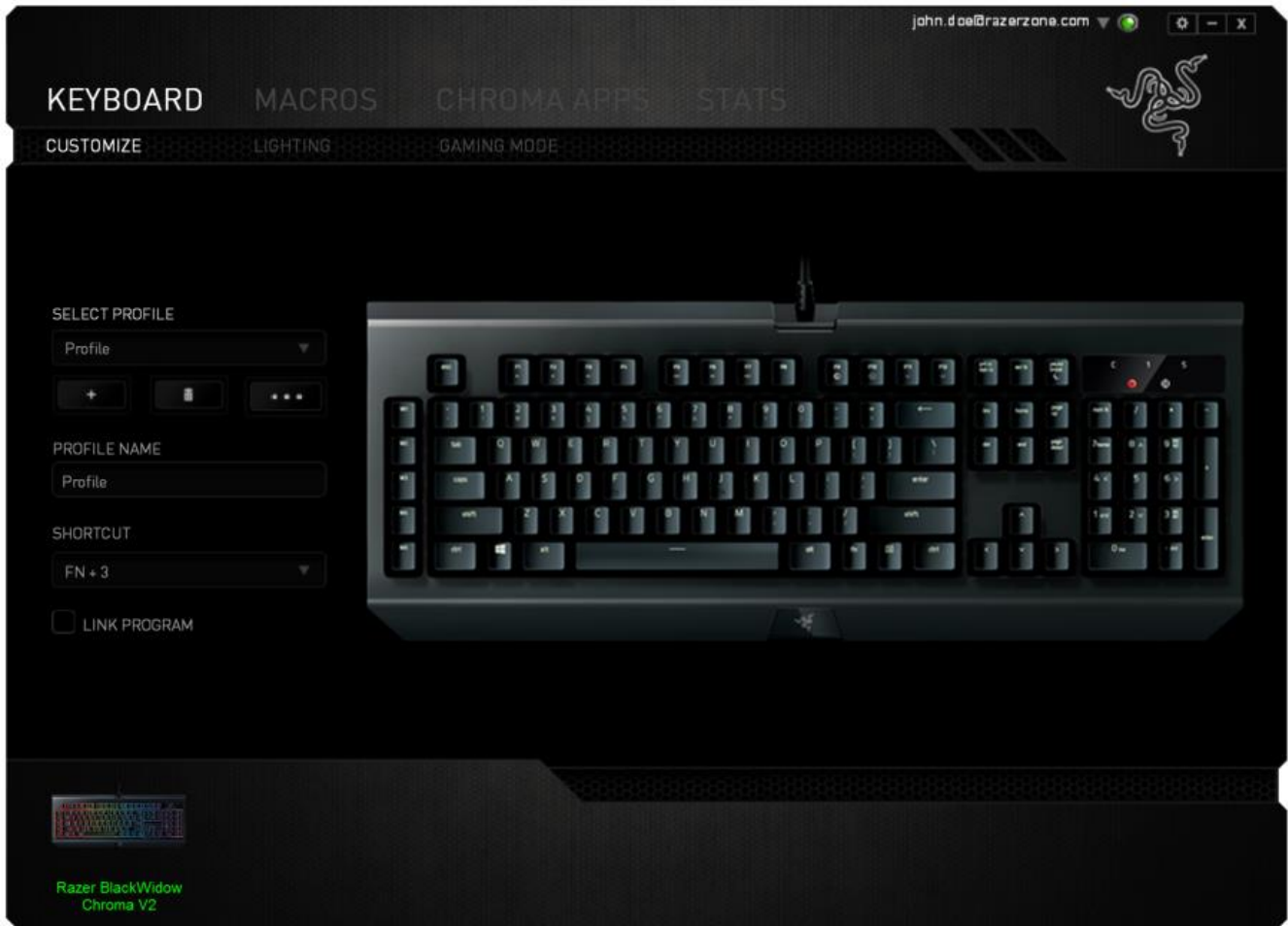


You can create a new profile by clicking the  button or delete the current profile by clicking the  button. The  button allows you to Copy, Import, and Export profiles. Your current profile by default is named “Profile” however; you can rename it by typing on the text field below PROFILE NAME.

Each profile can be set to FN + 0 - 9 using the SHORTCUT dropdown menu for fast profile switching. Each profile can also be set to automatically activate when you run a program or application through the use of the LINK PROGRAM option.

Customize Tab

The Customize Tab is where you can modify the basic functionalities of your device such as key assignments to suit your gaming needs. The changes made in this tab are automatically saved to your current profile.



Key Assignment Menu

Initially, each key is set to DEFAULT. However, you may change the function of this key by clicking the desired key to access the Key Assignment Menu.



Listed below are the customization options and their description.



Default

This option enables you to return the key to its original function. To choose the DEFAULT, simply select it from the Key Assignment Menu.



Keyboard Function

This option enables you to change any key into another keyboard function. To choose a keyboard function, select KEYBOARD FUNCTION from the Key Assignment Menu and enter the key you wish to use on the given field below. You may also include modifier keys such as Ctrl, Shift, Alt or any of those combinations.



Mouse Function

This option allows you to change any key into a mouse button function. To choose a mouse function, select MOUSE FUNCTION from the Key Assignment Menu and an ASSIGN BUTTON submenu will appear.

Listed below are the functions which you can choose from the Assign Button submenu:

- **Left Click** - Performs a left mouse click using the assigned button.
- **Right Click** - Performs a right mouse click using the assigned button.
- **Scroll Click** - Activates the universal scrolling function.
- **Double Click** - Performs a double left click using the assigned button.
- **Mouse Button 4** - Performs a “Backward” command for most internet browsers.
- **Mouse Button 5** - Performs a “Forward” command for most internet browsers.
- **Scroll Up** - Performs a “Scroll Up” command using the assigned button.
- **Scroll Down** - Performs a “Scroll Down” command using the assigned button.
- **Scroll Left** - Performs a “Scroll Left” command using the assigned button.
- **Scroll Right** - Performs a “Scroll Right” command using the assigned button.



Inter-device

Inter-device allows you to change the functionality of other Razer Synapse enabled devices. Some of these functionalities are device-specific such as using your Razer gaming keyboard to change the Sensitivity Stage of your Razer gaming mouse. When you select Inter-device from the Key Assignment Menu, a sub-menu will appear.

DEVICE TO LINK allows you to choose which currently connected Razer device can be linked while FUNCTION allows you to choose which functionality you want to use for the linked device.



Macro

A Macro is a prerecorded sequence of keystrokes and button presses that is executed with precise timing. By setting a key to Macro, you can conveniently execute a chain of commands. When you select this option from the Key Assignment Menu, a submenu will appear which allows you to choose

a prerecorded macro command. See the MACROS TAB to learn more about creating Macro commands.



Switch Profile

The Switch Profile enables you to change profiles on the fly and immediately load all your pre-configured settings. When you select Switch Profile from the Key Assignment Menu, a sub-menu will appear that will allow you to choose which profile to use. An on-screen display will automatically appear whenever you switch profiles.



Launch Program

Launch Program allows you to launch a program or a website using the assigned key. When you select Launch Program from the Key Assignment Menu, two options will appear which allow you to search for the specific program you want to open or write the address of the website you want to visit.



Multimedia Function

This option allows you to bind multimedia playback controls to your device. After selecting Multimedia Function, a submenu will appear. Listed below are the multimedia playback controls you can choose from the submenu:

- **Volume Down** - Decreases the audio output.
- **Volume Up** - Increases the audio output.
- **Mute Volume** - Mutes the audio.
- **Mic Volume Up** - Increases the microphone volume.
- **Mic Volume Down** - Decreases the microphone volume.
- **Mute Mic** - Mutes the microphone.
- **Mute All** - Mute both microphone and audio output.
- **Play / Pause** - Play, pause, or resume playback of the current media.
- **Previous Track** - Play the previous track.
- **Next Track** - Play the next track.



Windows 8 Charms

This option enables you to assign the key into an Operating System shortcut command. For more information please visit: <http://windows.microsoft.com/en-us/windows-8/getting-around-tutorial>



Windows Shortcuts

This option enables you to assign the key into an Operating System shortcut command. For more information please visit: <http://support.microsoft.com/kb/126449>



Shortcuts


This option enables you to assign the key into an Operating System shortcut command. For more information please visit: <http://support.apple.com/kb/ht1343>




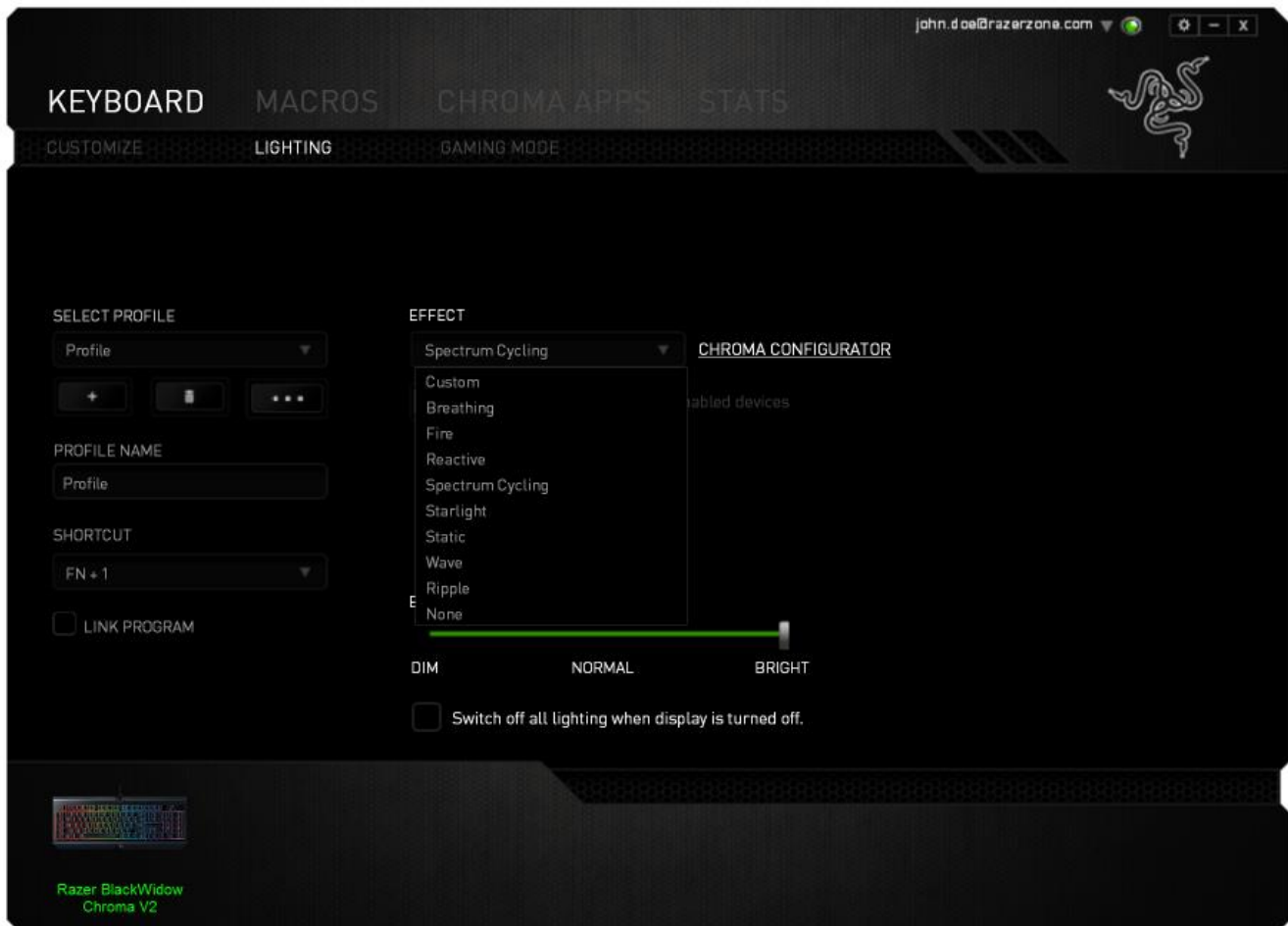
Disable

This option renders the assigned key unusable. Use Disable if you do not want to use the key or if it interferes with your gaming.

Lighting Tab




The Lighting Tab on Razer Synapse allows you to customize your Razer device by allowing you to choose from different basic lighting effects or create your own using the Chroma Configurator. If you have other Razer Chroma-enabled devices, you can synchronize their basic lighting effects by clicking the  button.

 *Note: Only devices that support the selected lighting effect will synchronize. LED indicators are not customizable.*



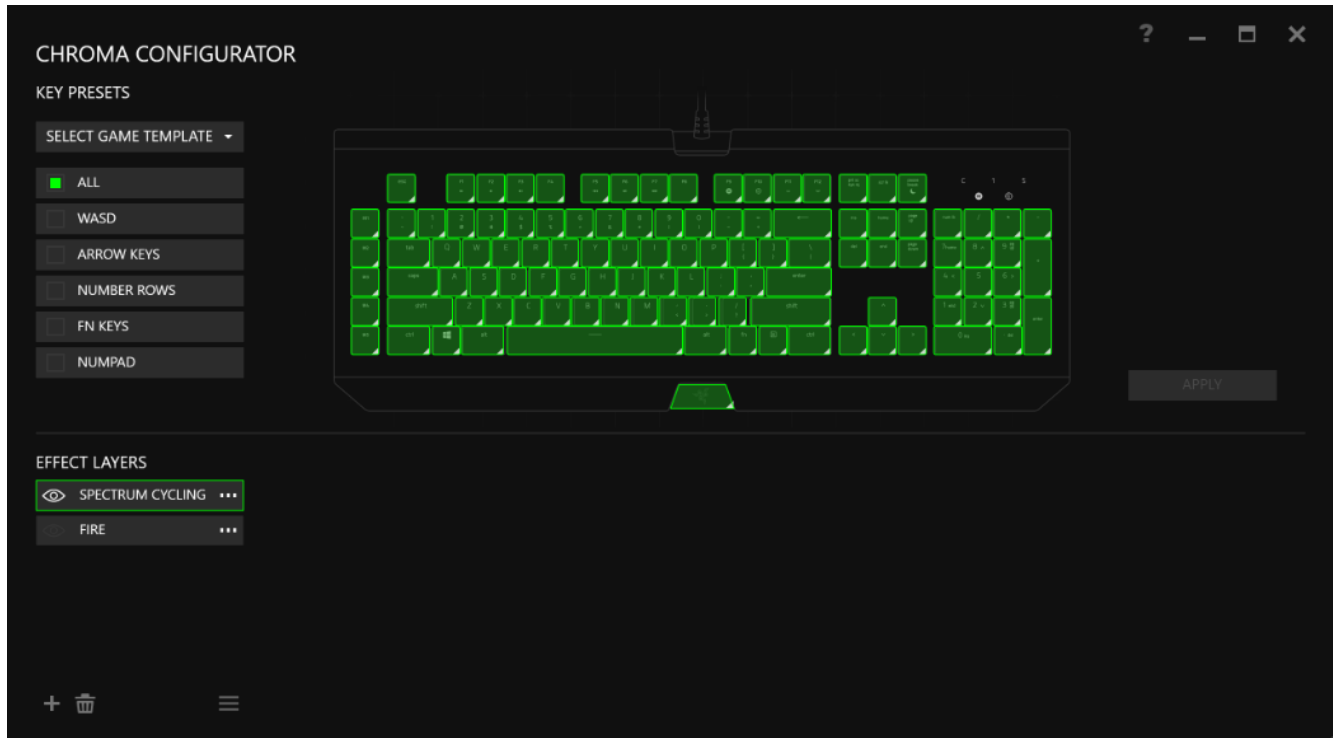
Pre-loaded lighting effects

A number of pre-loaded lighting effects can be selected and applied to your keyboard lighting as a whole, such as spectrum lighting, breathing etc. Select your desired effect and their corresponding properties (such as color) from the bottom area of this tab.

	Name	Description	How to set up
	Spectrum cycling	The lighting on the keyboard will cycle between 16.8 million colors indefinitely	No further customization required
	Wave	The lighting will scroll in the direction selected	Select either left-to-right or right-to-left wave direction
	Static	The LEDs will remain lit in the selected color	Select a color
	Breathing	The lighting fades in and out of the selected color(s)	Select up to 2 colors or randomize colors
	Reactive	The LEDs will light up when a key is pressed. The light will fade off after a specified period of time	Select a color and a duration
	Ripple	On key press, light will ripple away from the pressed key	Select a color
	Starlight	Each key will have a chance of fading in and out at a random time and duration	Select up to 2 colors or randomize colors and select a duration
	Fire	Each key lights up in warm colors to mimic the motion of flames	No further customization required

Chroma Configurator

Accessible from the Lighting tab is the Chroma Configurator which you can use to create advanced lighting effects for your Razer Chroma-enabled device. Click the CHROMA CONFIGURATOR link to open the window and begin exploring the customization options for your device.



Advanced lighting effects

1. Select the zones on the keyboard to customize. You can select multiple regions with the CTRL key.
2. Add an Effect layer for the selected region.
3. Customize the effects using the various options.
4. Click the APPLY button to save and apply all configurations to your keyboard.

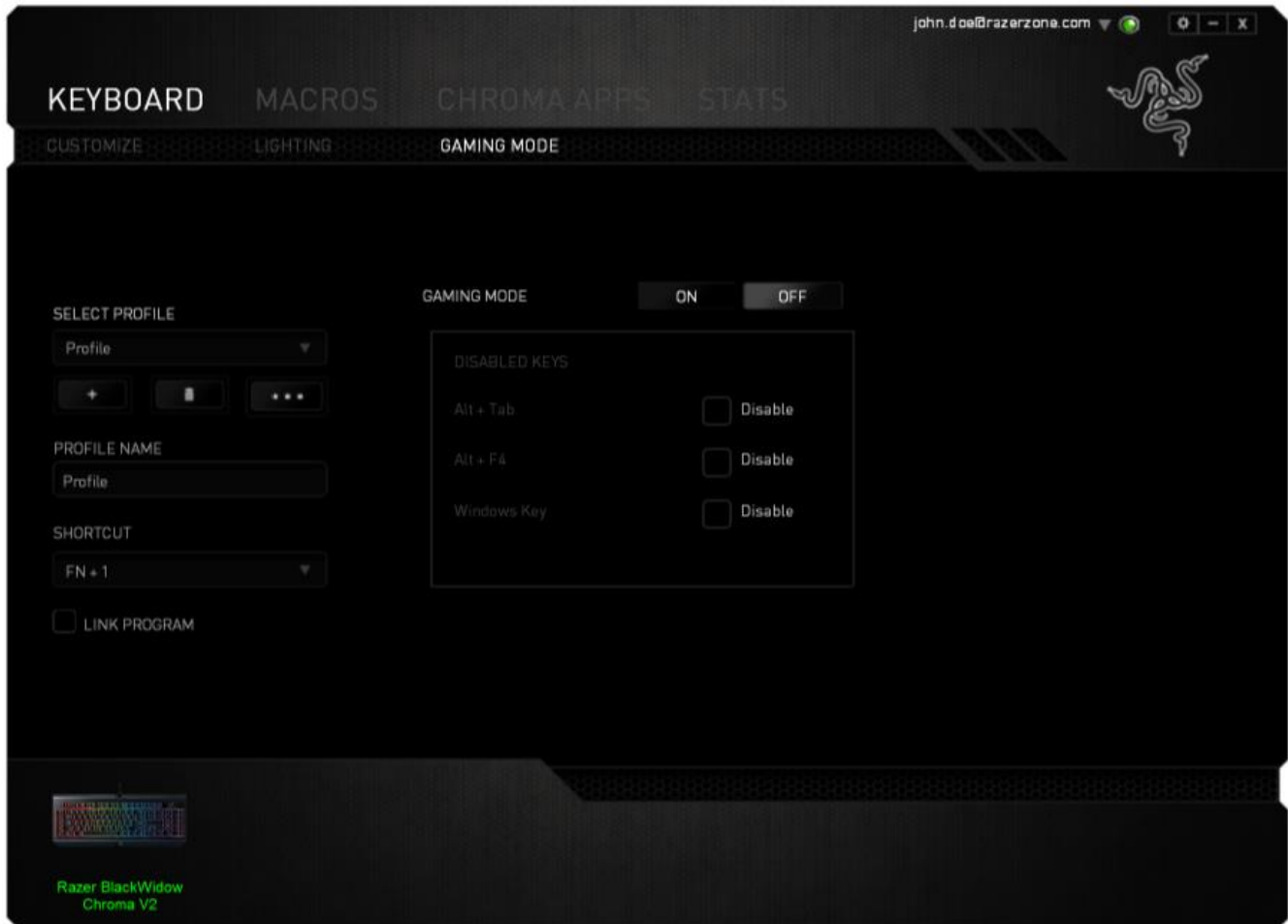
Customized lighting effects

You can also select the lighting color for each key individually. Select the Effect “Custom” and select the key to change. Then pick a color using the color picker.

The “Custom” option also includes templates for various game genres such as FPS, MOBA, MMO and RTS etc.

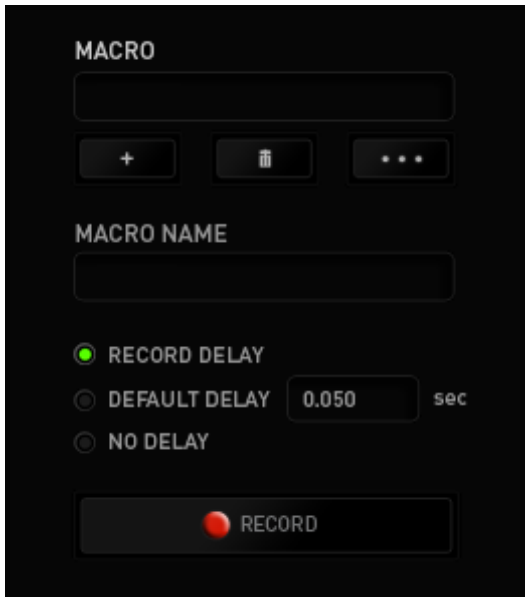
Gaming Mode Tab




The Gaming Mode Tab allows you to customize which keys to disable when Gaming Mode is activated. Depending on your settings, you may choose to disable the Windows key, Alt + Tab and Alt + F4. An indicator will light up when the function is currently turned ON.





MACROS TAB

The Macros Tab allows you to create a series of precise keystrokes and button presses. This tab also allows you to have numerous macros and extremely long macro commands at your disposal.



The Macro section works similarly to Profile wherein you can rename a macro by typing on the field below MACRO NAME. There are also other options available in the macro section such as creating a new macro by clicking the  button and deleting the current macro by clicking the  button. The  button allows you to Copy, Import, and Export macros.

To create a macro command, simply click the  button and all your keystrokes and button presses will automatically register on the macro screen. When you are done recording your macro commands, click on the  button to end the session.

The Macro section allows you to input the delay in-between commands. In RECORD DELAY the delay in-between commands are registered as how it is entered. The DEFAULT DELAY uses a predefined time (expressed in seconds) as the delay. And NO DELAY omits all the pauses in-between keystrokes and button presses.




i Note: You may use up to three decimal places when inserting values on the seconds (sec) field.

Once you have recorded a macro, you may edit the commands you have entered by selecting each command on the macro screen. Each keystroke or button press is arranged sequentially with the first command shown at the top of the screen.

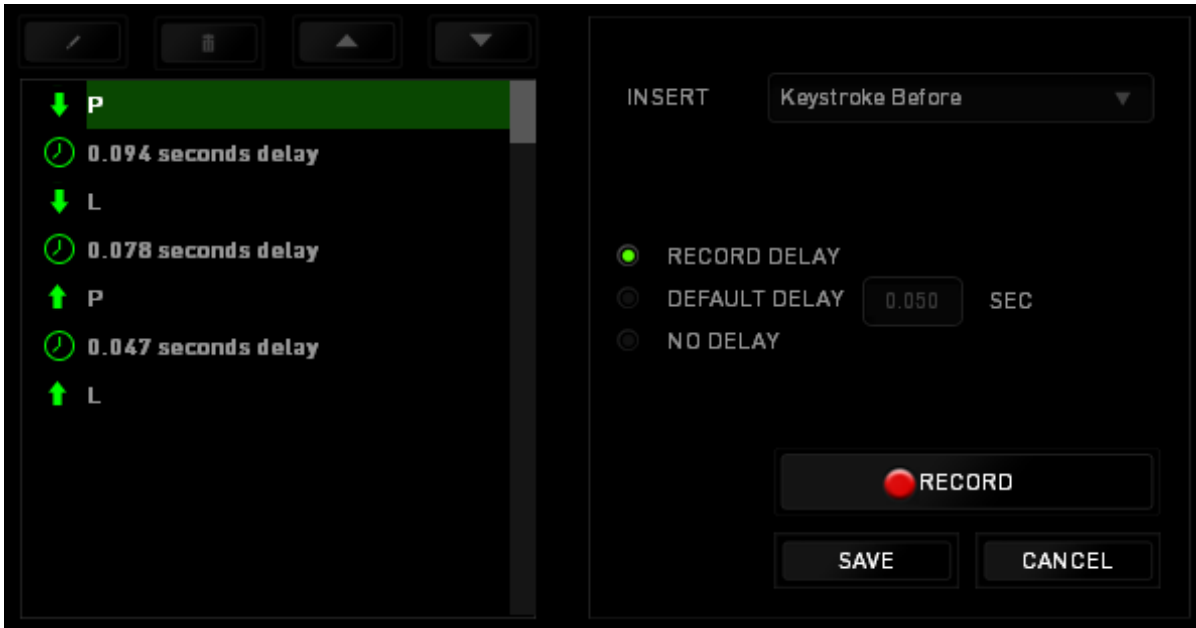



The  button allows you to edit a particular command and the  button enables you to delete a command. The  and  buttons give you the option to move the command up or down.

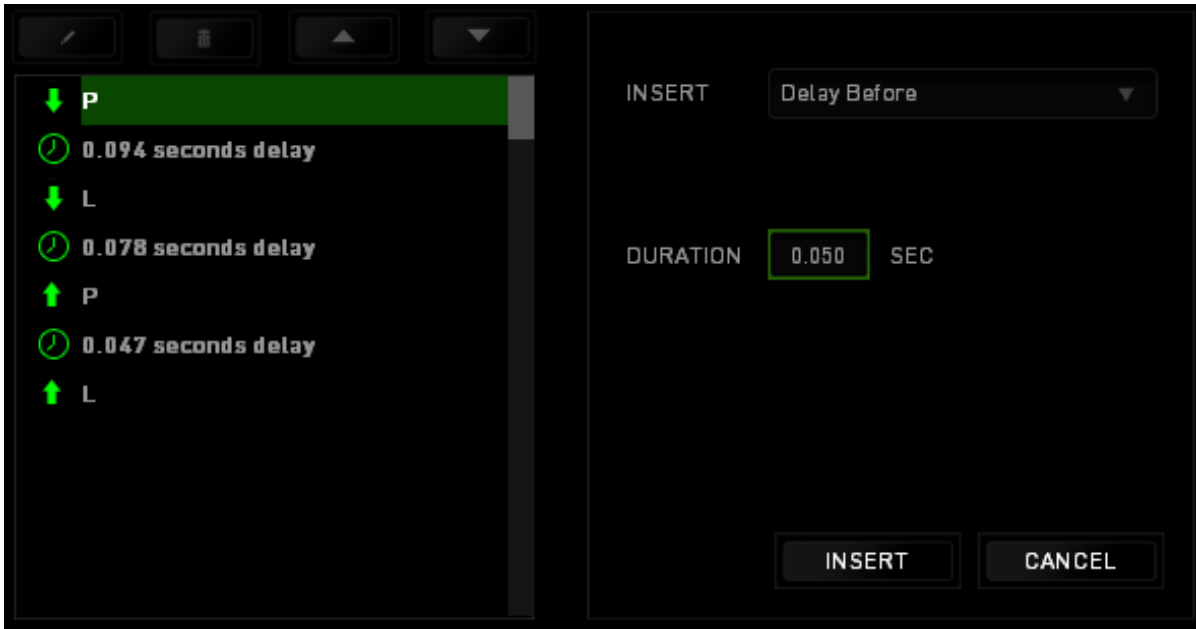
The  button allows you to put in additional keystrokes, button presses or time delays either before or after the selected command.

Once you have pressed the **INSERT** button, a new display window will appear beside the list of macro commands. The dropdown menu on this window allows you to choose a keystroke or a delay to be added in before or after the highlighted macro command.





You may add in a new set of macro commands by clicking the  button on the keystroke menu; or input time delays on the duration field using the delay menu.

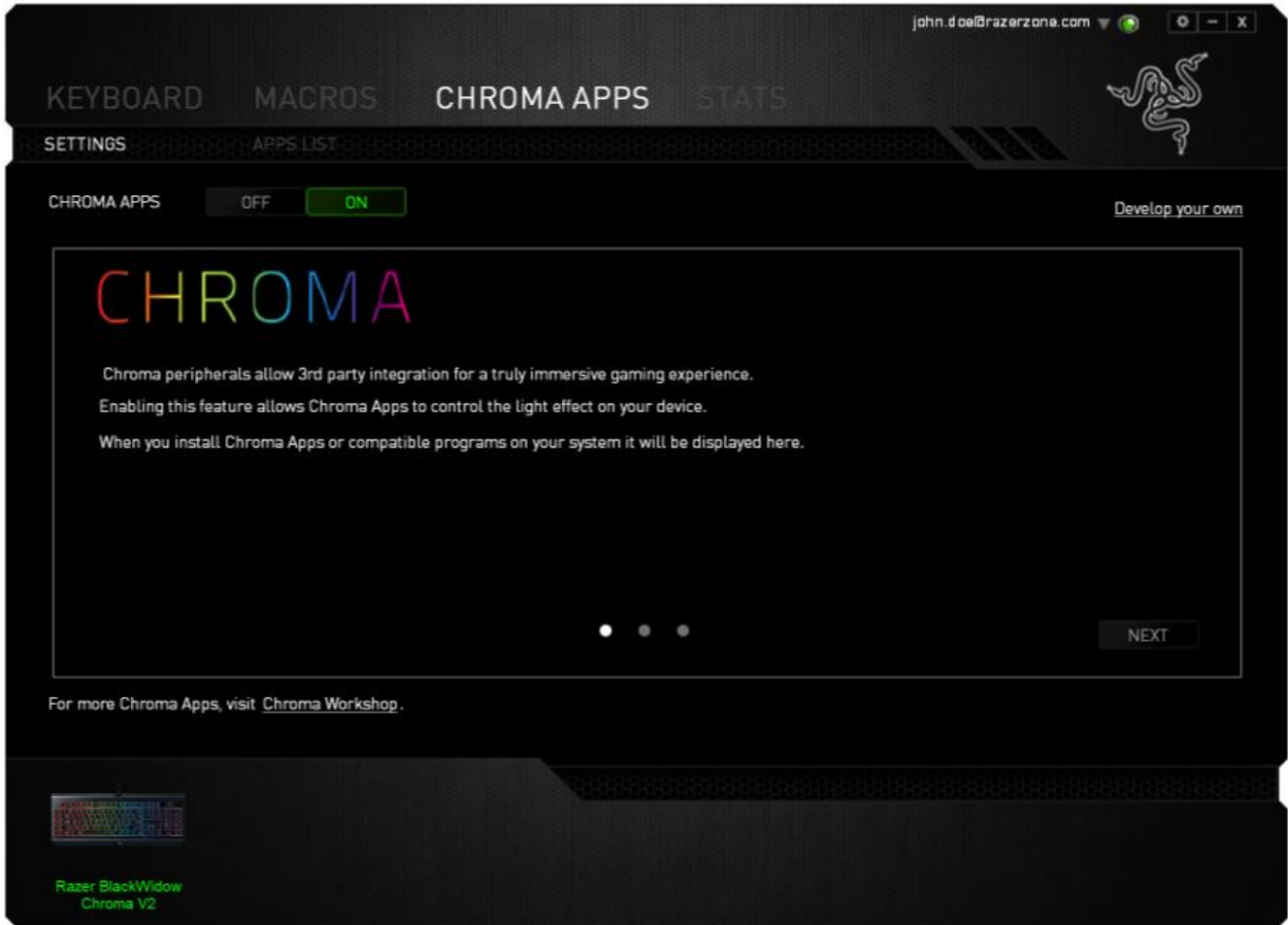


CHROMA APPS TAB

The Chroma Apps Tab allows 3rd party apps to access your Razer Chroma-enabled devices and unlock additional features when using particular games or applications.




SETTINGS TAB

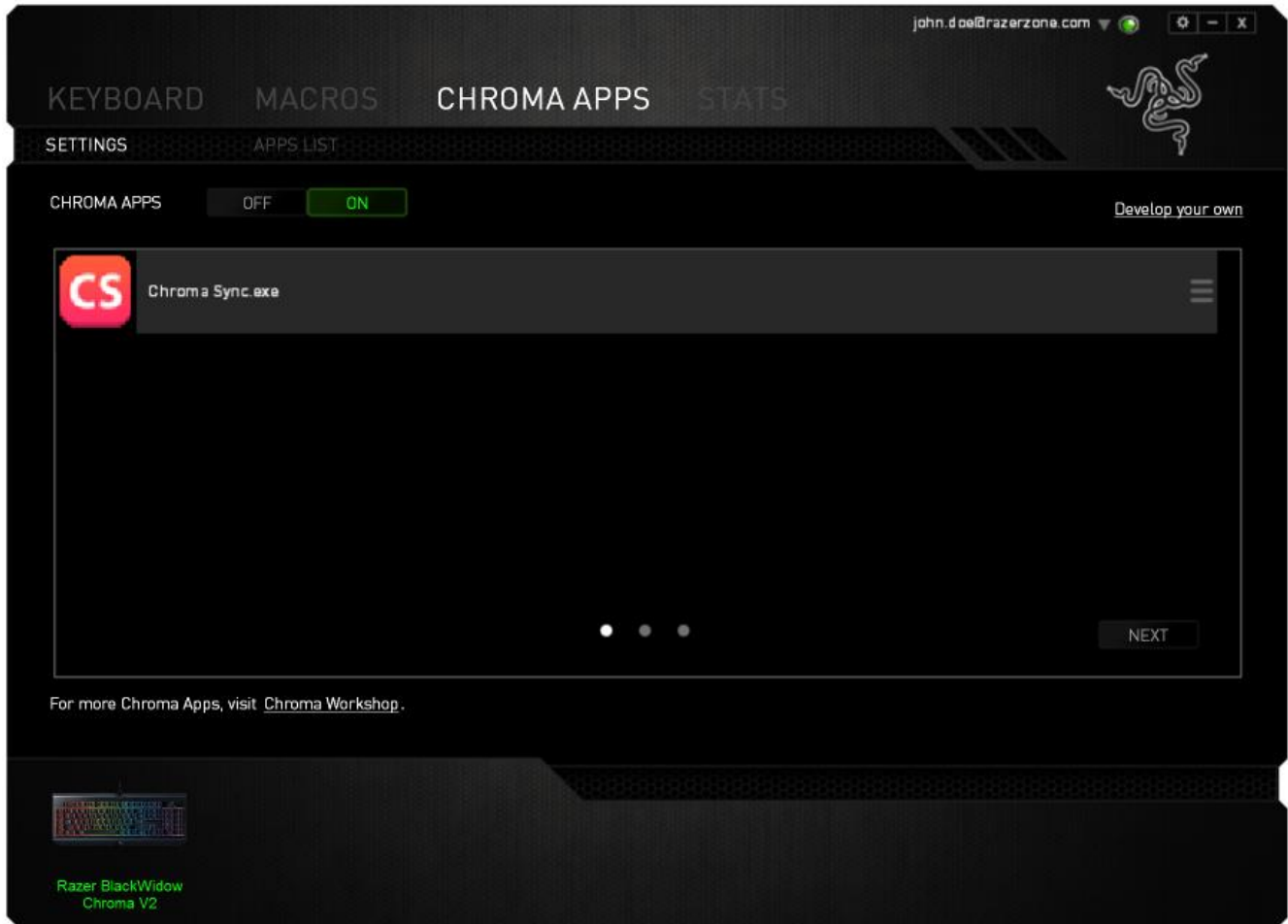
To enable the Chroma Apps function, click **ON** and visit razer.com/chroma-workshop to download an app.



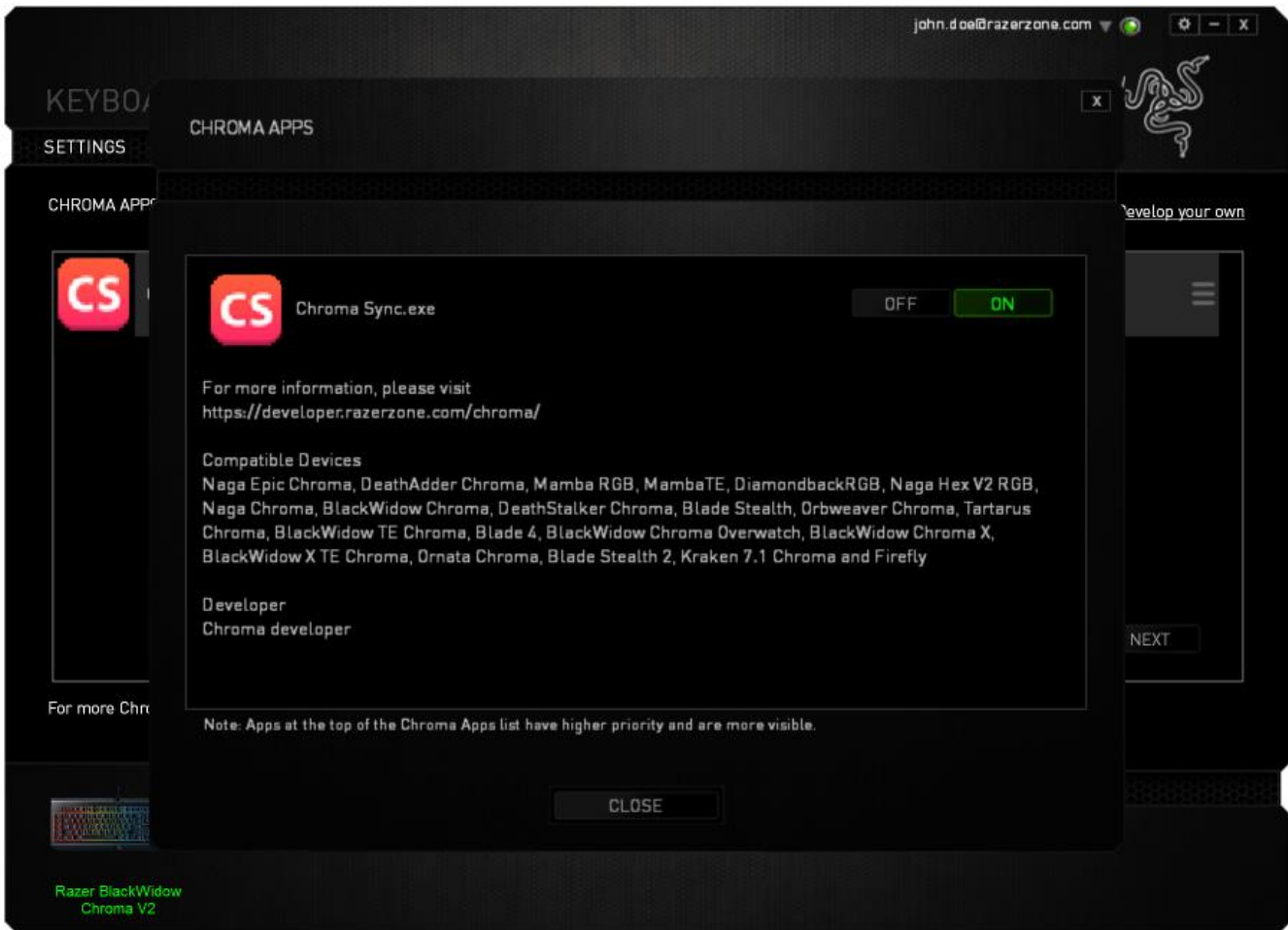
APPS LIST TAB

The Apps list is where all your Chroma apps are listed. From this tab you can view additional information regarding a particular Chroma app by double-clicking it on the list or selecting the

Chroma app and clicking . You can also rearrange the list using drag-and-drop or by clicking  and .



To disable a Chroma app, open the additional information window of that app and click **OFF**.

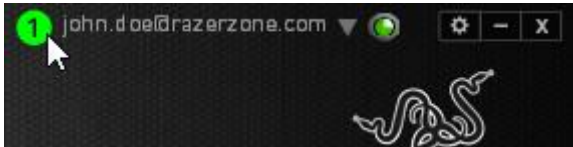


You may also disable the Chroma app by right-clicking on the app from the list and click **Disable '...'**.

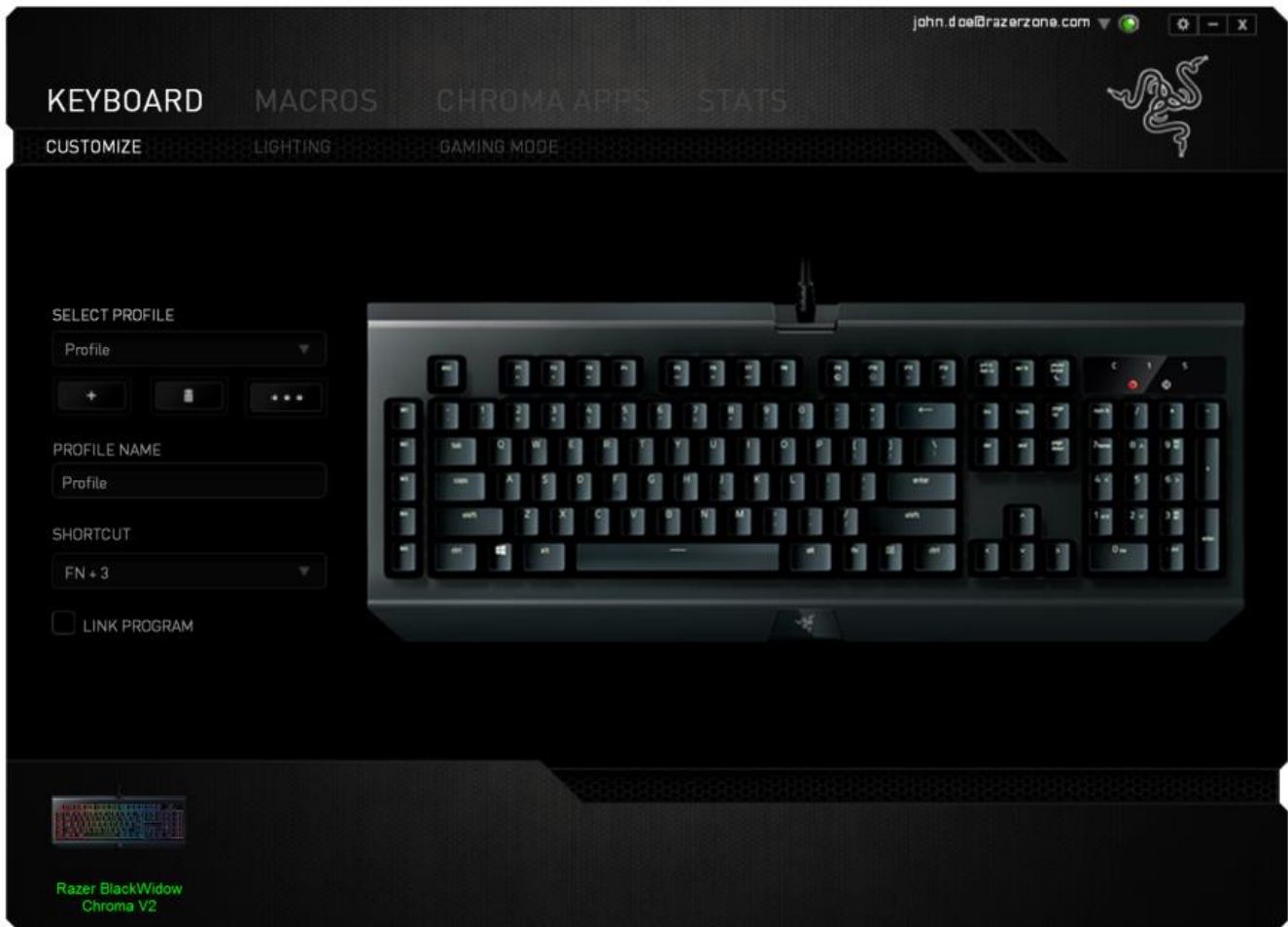
STATS & HEATMAPS

i Note: The images shown here are for reference only and may differ from the actual device.


Stats & Heatmaps help you analyze your gameplay by tracking your in-game mouse clicks, mouse movement and keyboard usage and visualizing it in form of heatmap overlays. This function is disabled by default. To enable this function, click the notification icon next to your user name in the Razer Synapse window and select “Enable Stats & Heatmaps”.

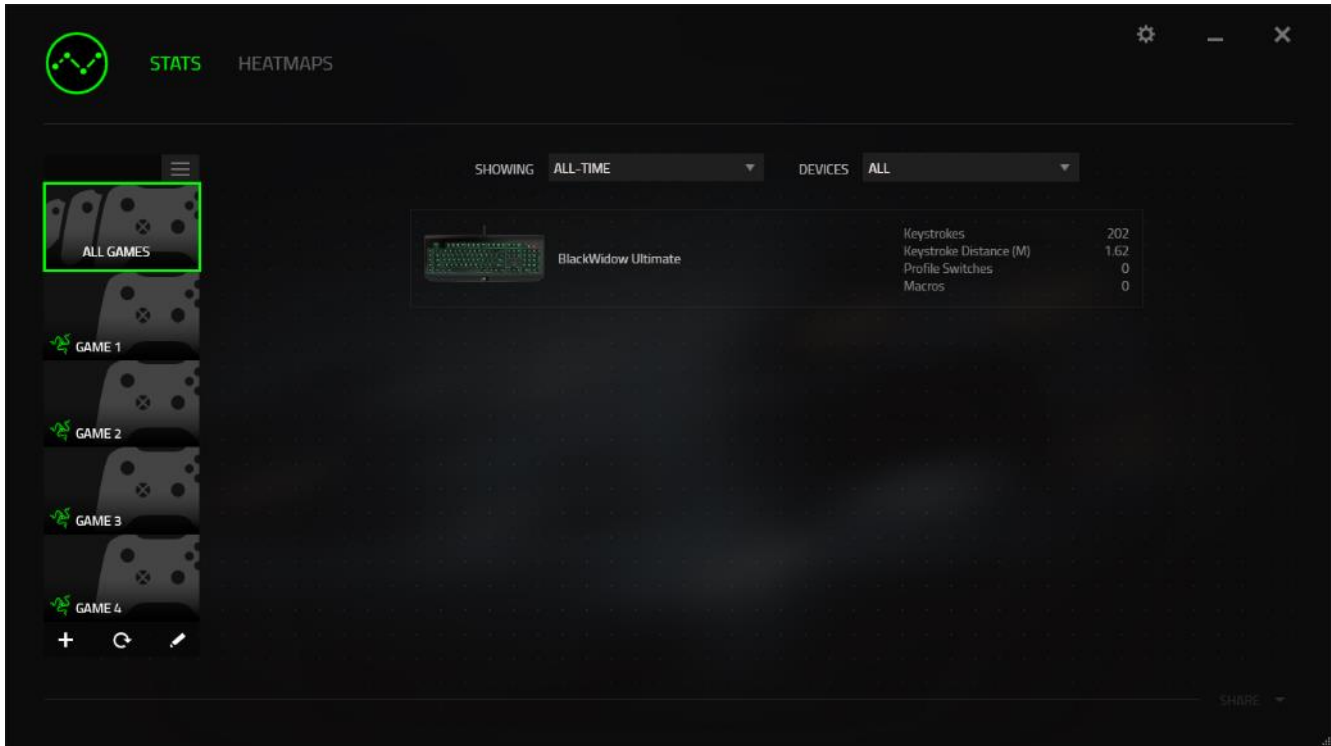





Confirm to enable the function in the dialog box that appears. Return to Razer Synapse and a new “Stats” tab will be available. Simply click the tab to open the function window.



Games List

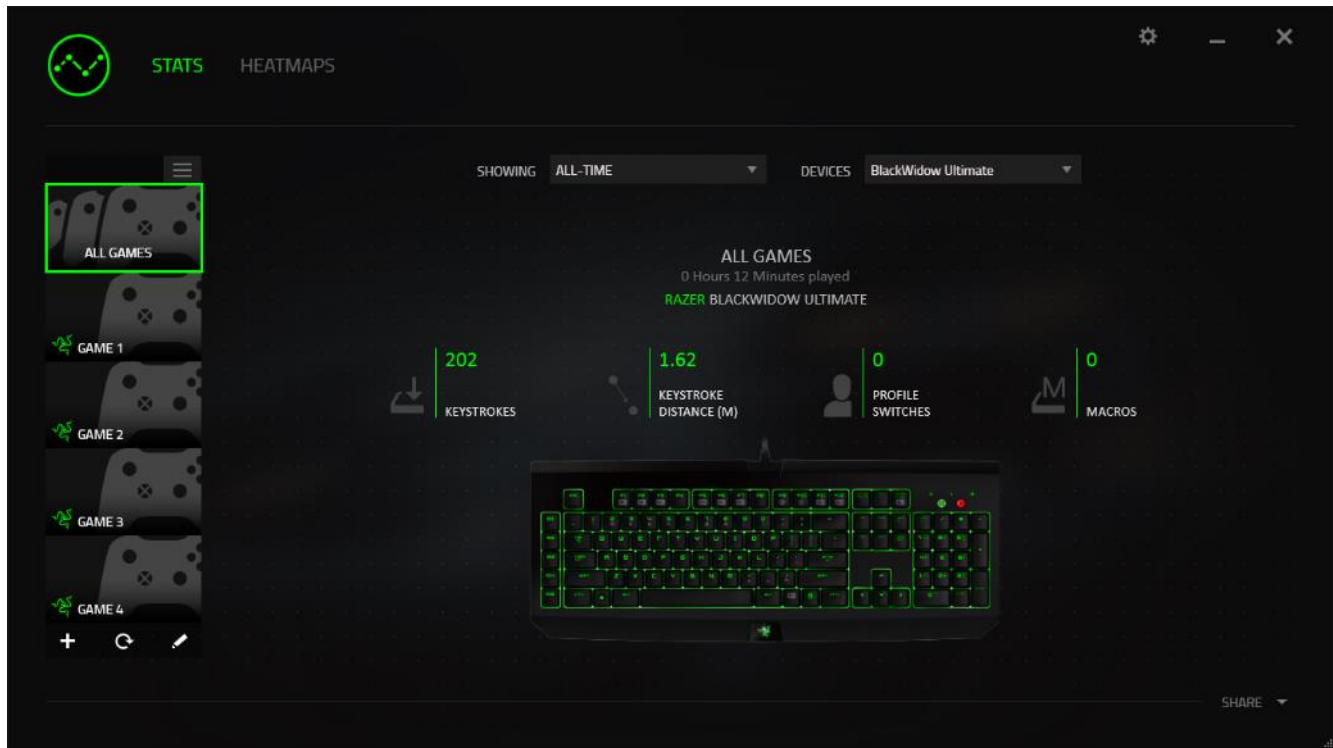
Stats & Heatmaps work by tracking the usage of all supported devices for each game. When the feature is enabled, it automatically scans your system for installed games and adds them to the Games List located on the left side of the screen. Click  to show or hide the Games List.



From this list, you can add more games that have not been automatically detected, using the  button, edit games with the  button or re-scan your system with the  button to search for newly installed games.

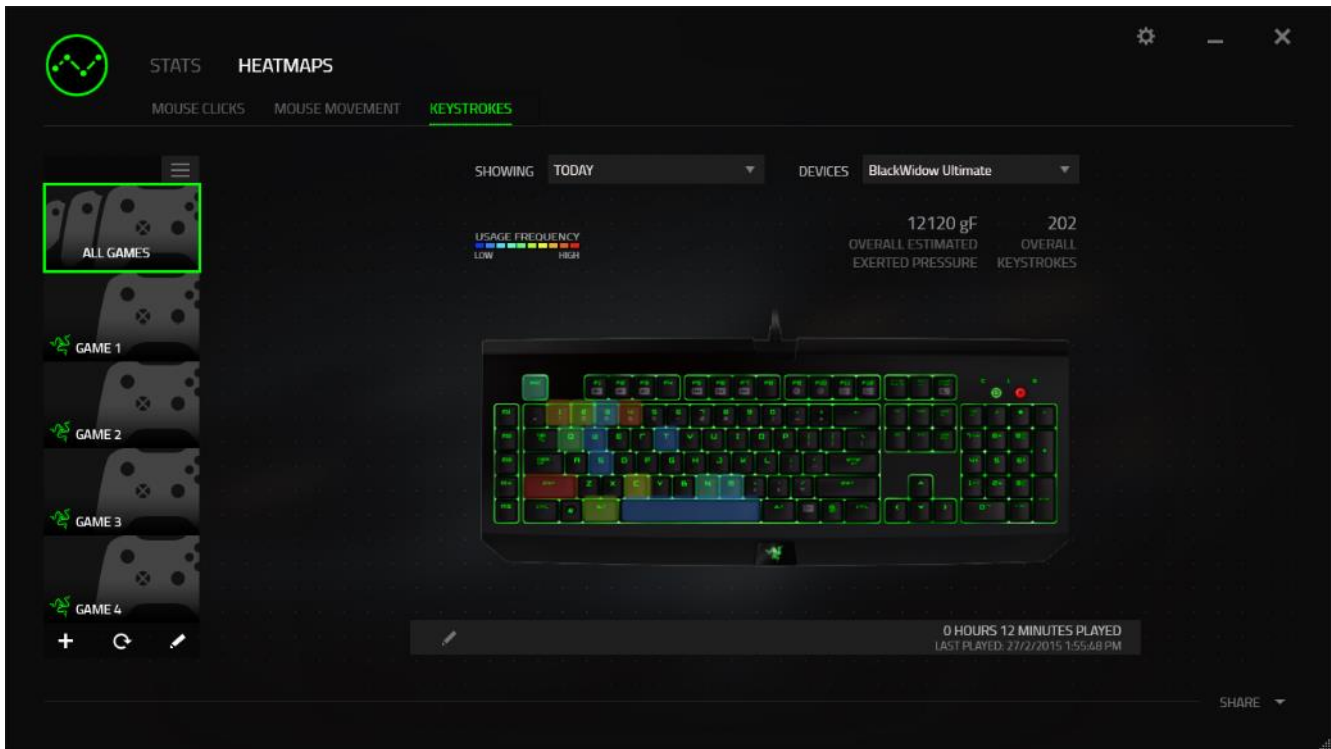
Stats Tab

By default, the Stats Tab shows you the overall statistics of all your Razer devices for all games and all time. You can select a specific game via the game list on the left side, change the time period using the SHOWING dropdown menu, or the Razer device using the DEVICES dropdown menu.



Heatmaps Tab - Keyboard

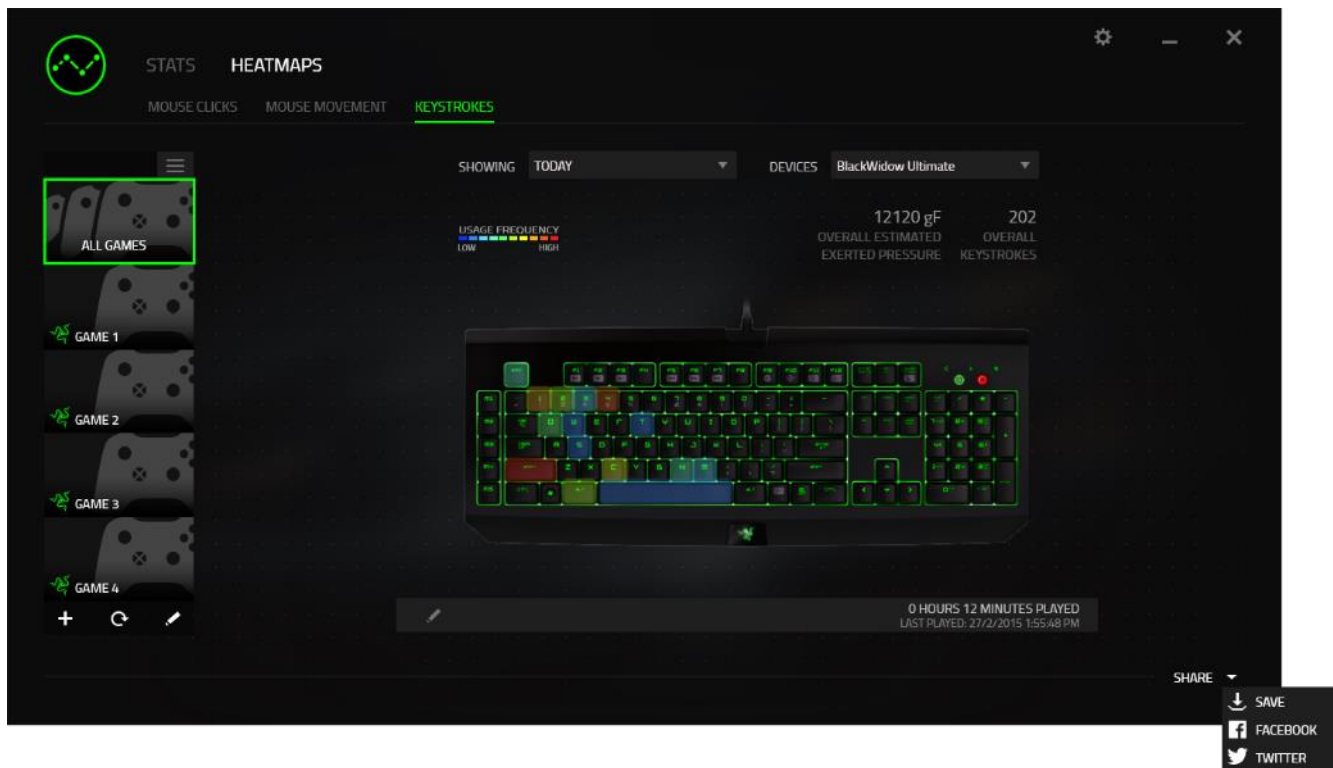
Heatmaps Tab shows the most frequently used keys on your Razer device for each game on your Games List.




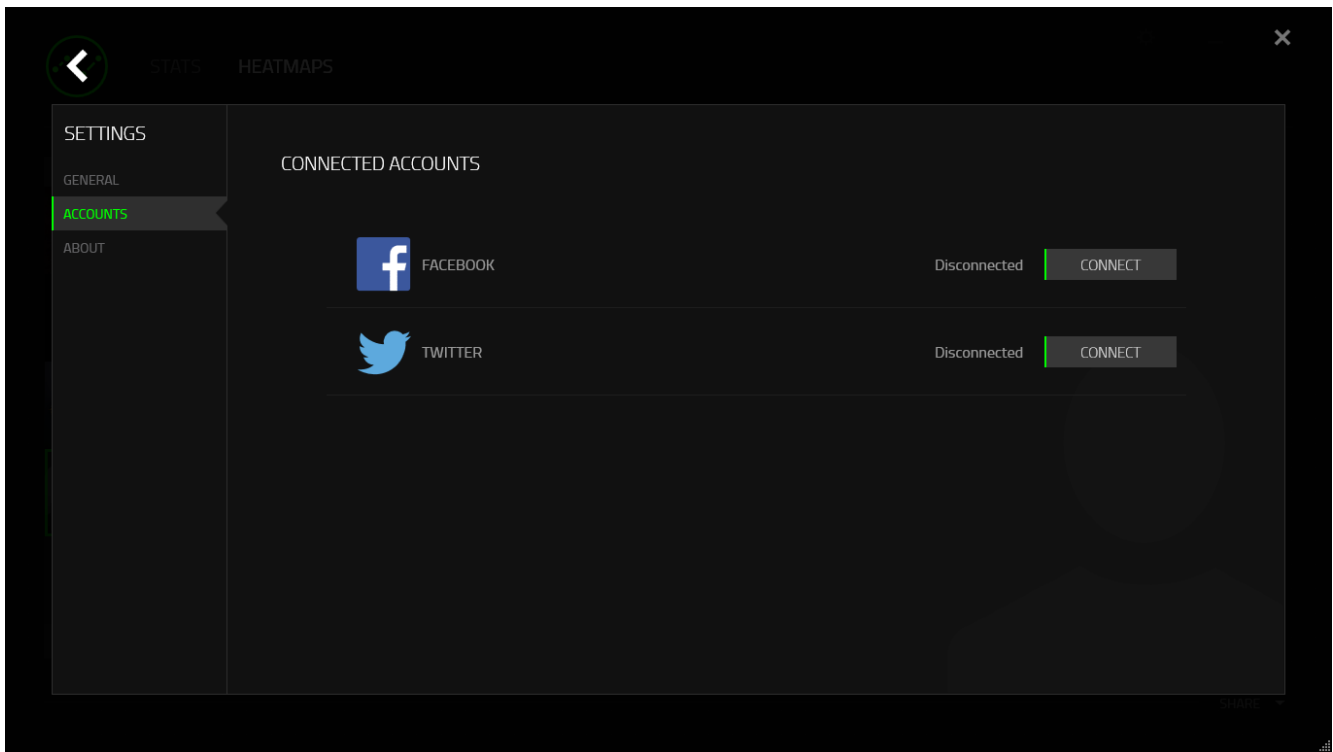
Social Media

You can share your heatmap image on social media networks such as Facebook or Twitter directly from Razer Synapse.

From the Heatmaps tab, click the Share button on the bottom right of the screen. You will be prompted to login to the selected social media using an existing account if you have not already done so.



You can also login to your social media accounts first from the “SETTINGS” screen. From the Stats & Heatmaps window, click . Select the “ACCOUNTS” tab. Click CONNECT next to the social media network you wish to sync with. Enter your login details and wait for the connection to complete.



9. SAFETY AND MAINTENANCE

SAFETY GUIDELINES

In order to achieve maximum safety while using your Razer BlackWidow Chroma V2, we suggest that you adopt the following guidelines:

Should you have trouble operating the device properly and troubleshooting does not work, unplug the device and contact the Razer hotline or go to support.razer.com for support. Do not attempt to service or fix the device yourself at any time.

Do not take apart the device (doing so will void your warranty) and do not attempt to operate it under abnormal current loads.

Keep the device away from liquid, humidity or moisture. Operate the device only within the specific temperature range of 0°C (32°F) to 40°C (104°F). Should the temperature exceed this range, unplug and/or switch off the device in order to let the temperature stabilize to an optimal level.

COMFORT

Research has shown that long periods of repetitive motion, improper positioning of your computer peripherals, incorrect body position, and poor habits may be associated with physical discomfort and injury to nerves, tendons, and muscles. Below are some guidelines to avoid injury and ensure optimum comfort while using your Razer BlackWidow Chroma V2.

- Position your keyboard and monitor directly in front of you with your mouse next to it. Place your elbows next to your side, not too far away and your keyboard within easy reach.
- Adjust the height of your chair and table so that the keyboard and mouse are at or below elbow height.
- Keep your feet well supported, posture straight and your shoulders relaxed.
- During gameplay, relax your wrist and keep it straight. If you do the same tasks with your hands repeatedly, try not to bend, extend or twist your hands for long periods.
- Do not rest your wrists on hard surfaces for long periods. Use a wrist rest to support your wrist while gaming.
- Customize the keys on your keyboard to suit your style of gaming in order to minimize repetitive or awkward motions while gaming.

- Do not sit in the same position all day. Get up, step away from your desk and do exercises to stretch your arms, shoulders, neck and legs.

If you should experience any physical discomfort while using your keyboard, such as pain, numbness, or tingling in your hands, wrists, elbows, shoulders, neck or back, please consult a qualified medical doctor immediately.

BATTERY WARNING

The Razer Chroma keycap keychain contains a non-rechargeable battery. In general, the life expectancy of this battery depends upon its usage. Do not open, mutilate, or expose to conducting materials (metal), moisture, liquid, fire, or heat. Doing so may cause batteries to leak or explode, resulting in personal injury. Do not use the product if the batteries are leaking, discolored, or deformed. Do not attempt to replace the battery yourself.

MAINTENANCE AND USE

The Razer BlackWidow Chroma V2 requires minimum maintenance to keep it in optimum condition. Once a month we recommend you unplug the device from the computer and clean it using a soft cloth or cotton swab with a bit of warm water to prevent dirt buildup. Do not use soap or harsh cleaning agents.

10. LEGALESE

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