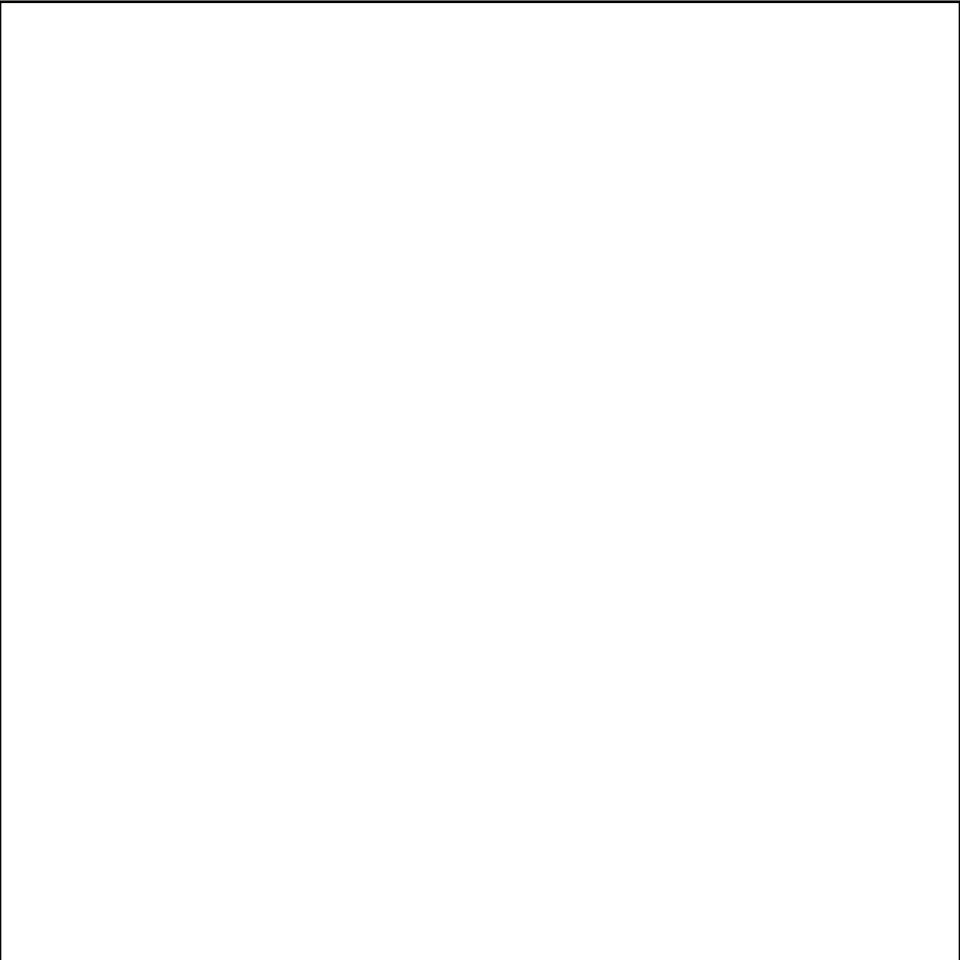




RIOTORO™

Your Guide to Great Gaming

CR1080 GAMING CASE



**Congratulations you are
on your way to build the
perfect gaming machine**



RIOTORO™

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Welcome to **RIOTORO**

Thank you for purchasing the CR1080 GAMING CASE ultra compact Computer Case.

The **CR1080** chassis squeezes raw computing power into in a cool, quiet, compact and elegant PC that compliments any area while occupying minimal little desk space for a full ATX solution. The **CR1080** achieves this by combining a small product supporting ATX, Micro ATX and Mini-ITX platforms.

Note: This manual is a guide for **CR1080 GAMING CASE** computer case, for instructions on installing the motherboard and other components, please refer to their documentation.

1

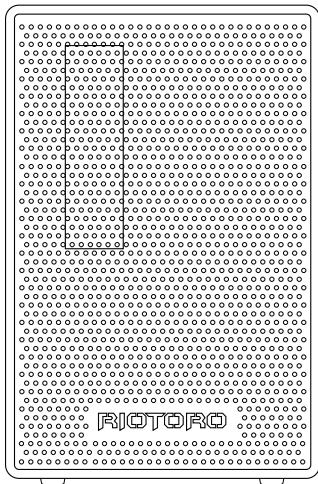
Before You Begin

www.riotoro.com/cases

CR1080 GAMING CASE

What's in the Box

CR1080 Case



Included Hardware

- 6x nylon ties

- 4x long screws

- 8x screws for fans

- 2x motherboard standoff

- 12x small Phillips head screws

- 12x small accessories screws


CRIQ80 GAMING CASE

Product Details

1) Front Panel:

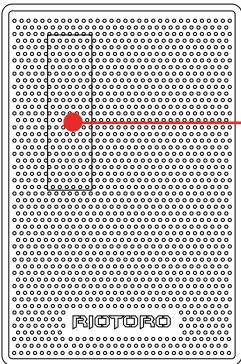
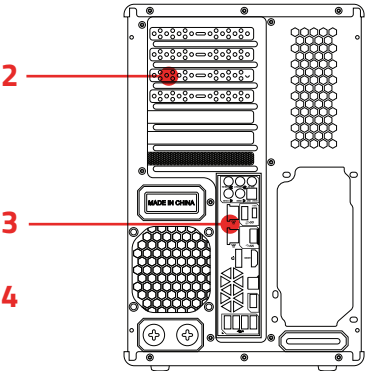
- USB 3.0 Ports
- Microphone Jack
- Headphone Jack
- Power Switch
- Reset Switch
- Power LED Strip
- Hard Disk Drive LED



2) PCI-E Expansion Slots

3) I/O Panel Cutout

4) 5.25" Optical Drive



CRI080 GAMING CASE

Product Details

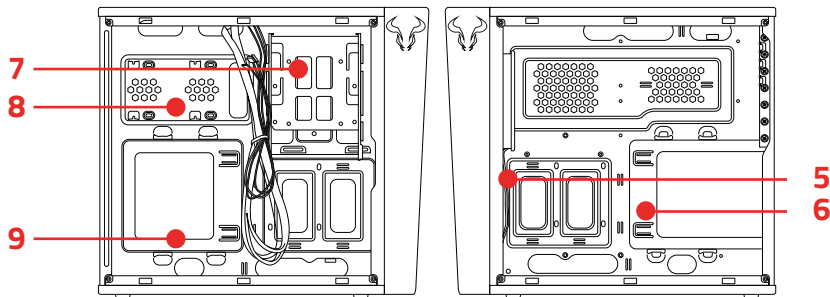
5) Fans & Fan/Rad Mounts

6) Motherboard Tray

7) 3.5" Tool-less
Drive Mount

8) 2.5" Drive Mount /
Convertible to 3.5"

9) Power Supply Bay



CRI080 GAMING CASE

Before You Begin

Please take the following precautions:

- Handle all PC components and cards with care.
- Hold cards and processors by their edges to avoid damaging components.
- To avoid damaging components by electrostatic discharge, periodically ground yourself by touching an unpainted metal surface or by using a wrist grounding strap.
- Before connecting cables, make sure the connectors are correctly aligned.
- Consult the documentation of your motherboard and other components for specific installation instructions and troubleshooting.

CR1080 GAMING CASE

Before You Begin

When routing cables...

Route and bundle PSU and case cables to reduce clutter for a cleaner look and to improve airflow. The case is designed with cable pass-through cutouts throughout and space to conceal cables under the right side area (as seen from the front). Use the provided nylon zip ties to hold the cables in place if needed.

2

Ready, Setup, Go

www.riotoro.com/cases

CR1080 GAMING CASE

Recommended Builds

120mm Water-Cooling Build:

- Install the PSU into the PSU bay. And use provided screws to firmly attach the PSU into the case.
- Install the motherboard. (make sure the right bracket for your platform is already in its place, check your motherboard/CPU documentation to find out the MB socket)
- Install the radiator into the lower front area. (fan should be located on top of the radiator location)
- Install memory
- Install the water block into the Motherboard (CPU)
(make sure there is thermal paste available in case it is needed)
- Connect all cables into the motherboard.
(including the provided I/O front panel cables)
- Install HDDs / SSDs, located on top of the PSU area.
- Plug your PSU into the AC outlet.

NOTE: The **CR1080** officially supports a 120mm (cooling area) radiator, such as the Bifrost 120ti, or equivalents. Either 27 to 45mm wide radiators. Also the PSU should not be longer than 175mm long.

CR1080 GAMING CASE

Recommended Builds

Builds Without Water-Cooling:

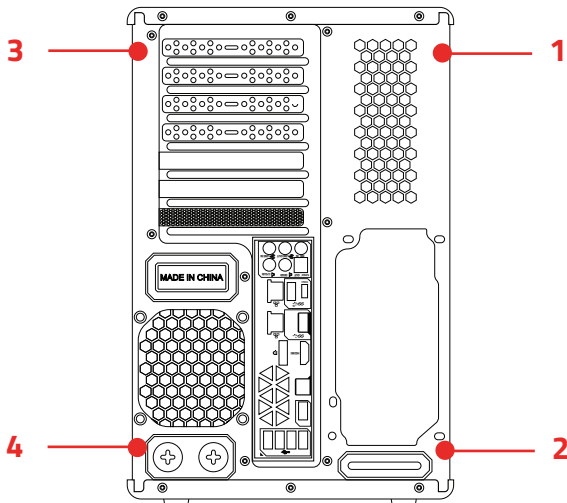
- Install the PSU into the PSU bay. And use provided screws to firmly attach the PSU into the case.
- Install the CPU air cooler , (some coolers will have their own mounting system, please review the CPU air cooler manual for precise instruction on how to install your CPU cooler)
- Install the motherboard with the CPU cooler already in its place.
- Install memory
- Connect all cables to the motherboard (including the provided I/O front panel cables)
- Install the HDDs / SSDs , located on top of the PSU area
- Plug your PSU into the AC Outlet.

NOTE: The **CR1080** is a very compact solution, and as such it only supports coolers not higher than 120mm height.

CR1080 GAMING CASE

Removing the Side Panels

Put the case upright on a stable, flat surface with rear facing you. Remove the thumbscrews from both side panels and store them in a safe place. Remove each panel by slide the panel toward the rear.



CR1080 GAMING CASE

Install the Motherboard

The **CR1080** is compatible with up to Full ATX, enabling you to build a high-performance compact PC.

1) Install the CPU, included CPU cooler and RAM.

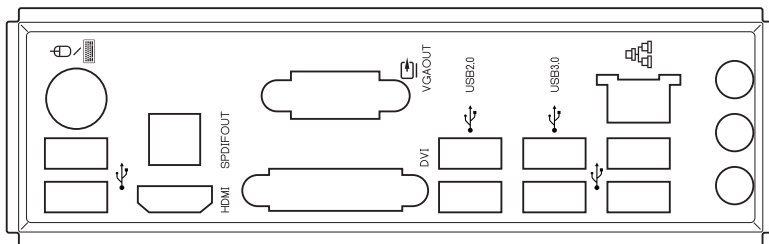
Refer to your CPU and motherboard documentation how to mount the CPU and its cooler on your motherboard. Please visit the Tips and recommended build order section on previous page, for more information.

CR1080 GAMING CASE

Install the Motherboard

2) Install the I/O panel.

Your motherboard should have come with a standard I/O panel that shields and exposes the rear motherboard connectors out of the back of the case. From inside, snap the I/O panel into the cutout in the rear of the case.



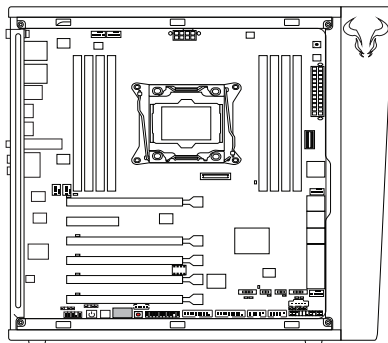
Example I/O panel

CR1080 GAMING CASE

Install the motherboard

3) Attach the Motherboard to the Case.

The CR1080 comes with enough mounting standoffs for a full ATX or smaller form factor. Slide the motherboard into the I/O panel and then align the motherboards screw holes with the case standoff. Attach the motherboard to the standoffs with the provided motherboard screws.



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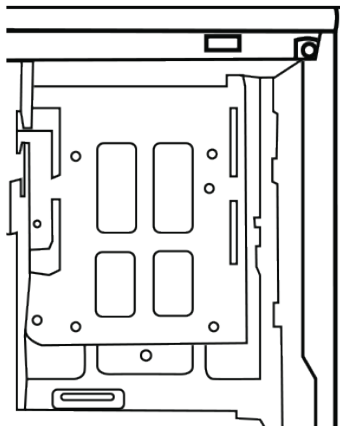
Install Hard Drives and SSDs

The **CR1080** has one 3.5" dedicated bay and two 2.5" drive bays. One of the 2.5" bays can be adapted into a 3.5" if needed to. These bays are located in the compartment behind the motherboard tray.

To install a 3.5" hard drive

The 3.5" drive bay comes with a tool-less plastic bracket that needs to be used in order to install the HDD in the right position.

Remove the plastic bracket, attach the HDD into it, and place the bracket with the drive in its original position.



Plastic bracket for the 3.5" hard drive

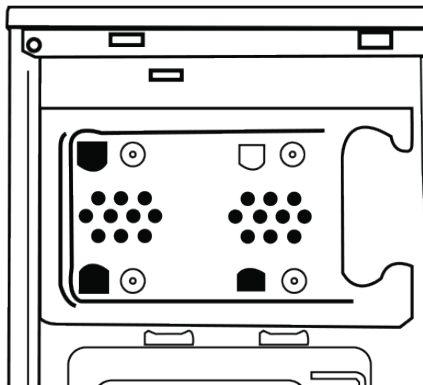
CR1080 GAMING CASE

Install Hard Drives and SSDs

The **CR1080** case has two mounts for 2.5" drives such as solid state drives (SSD).

To install drives into the 2.5" mounts

- Remove the thumbscrew that holds the SSD Bridge attached to the main body this will allow the user to open the Cage Bridge.
- You can align each of the 2.5 drive in both faces of the Bridge. One below the steel sheet, and one above. Also, you can convert the 2.5 "bay on top into a 3.5".
- Connect the SATA & power cables.
- Using the thumb screw, attach the bridge back to its original position.



Bridge bay, 2.5" bay in the back,
convertible 3.5" bay front

CR1080 GAMING CASE

Install the Optical Drive

The **CR1080** allows for one optical drive that needs to be installed vertically.

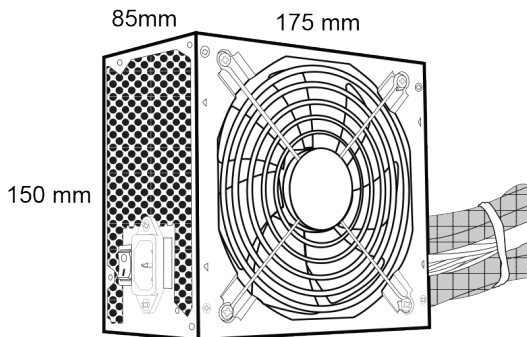
- Remove the front cover of the drive.
- Insert the drive into the bay, making sure there front bezel of the case align with the front bezel of the Optical drive.
- Use provided Screws to secure the Optical drive unit into its final position.
- Connect the data and power cables to the Optical Drive.

CR1080 GAMING CASE

Install the Power Supply

The power supply unit (PSU) drive bay is located on the bottom of the case on the compartment behind the motherboard tray.

- Slide the PSU in the case PSU bay, and push the power supply to the rear.
- Align the PSU and case mounting holes and attach the power supply to the case with the provided PSU screws.
- Connect the relevant PSU cables to your motherboard and drives.
- When using a modular PSU, make sure you connect all the relevant cables before mounting the PSU.



Note: Maximum CR1080 PSU support dimension 175x150x85mm.

CR1080 GAMING CASE

Installing Water-Cooling Units

- The radiator fans should always be behind the radiator, and into the front metal mesh, that will allow the use of the installed fan.
- When using a 120mm /Wide radiator (45 or 49mm wide) only use one of the provided fans, remember the CR1080 is a very compact case.

CR1080 GAMING CASE

Install the Fan

The **CR1080** comes with one 120mm Blue LED fan—(front intake fan).

- Connect the 3-pin connector of each fan to a 3-pin or 4-pin PWM fan header on your motherboard.

Note: Refer to your motherboard manual for more information on the locations of the Fan headers.

CR1080 GAMING CASE

Connect the Front Panel Switches and LEDs

The **CR1080** front panel switches, LEDs, and USB ports have wire leads that need to be attached to header pins the motherboard. Refer to your motherboard manual to locate the proper motherboard header pins and attach the cable connectors listed below.

Front Panel
Cable
Connectors

Power Switch



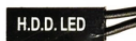
Reset Switch



Power LED
(+) and (-)



Power Switch



HD Audio
(mic and headphone)



Hard Disk Drive
LED (+) and (-)



Cooling
Fans
Connectors

Fans (1)



Note: The LED leads are marked positive (+) or negative (-) and must be connected to the corresponding pins on the motherboard. The orientation of the switch connectors does not matter.

3

Specifications

CR1080 GAMING CASE

Specifications

Motherboard Support	- ATX, Micro ATX, Mini ATX
Drive Bays	- 1 x 3.5" - 1 x 2.5" - 1 x convertible 2.5/3.5" - 1 x 5.25"
Front Panel I/O	- 2 x USB 3.0 Ports - 1 x Headphone Out - 1 x Microphone In
Expansion Slots	- 7 Slots
Fans	- Fans included: 1 x 120mm front intake
Fan Mount Points	- 1 x 120mm (front) - 2 x 120mm (bottom) - 1 x 80mm (back)

CR1080 GAMING CASE

Specifications

PSU Support	- ATX 175x150x85mm
Max. GPU Length	- Up to 300mm long reference design
Materials	- Steel and Plastic
Dimensions	- 9.625" (W) x 14.125" (H) x 15.5" (D) (245mm x 359mm x 394mm)
Water-cooling Support	- 1 x 120 x 27 (120 x 45mm RAD in front)

CR1080 GAMING CASE

Recommended Parts



POWER SUPPLY UNIT

ONYX 650W & ONYX 750W: Are designed to hit the sweet spot for practical real-world performance, reliability, and price. To protect you and your PC, ONYX PSUs include full over-voltage, under-voltage, over-current, over-power, and short-circuit protections.

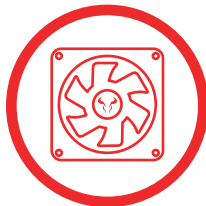
ENIGMA 850W: Unleash your gaming computer potential with the high efficiency and power of ENIGMA power supplies. The large built-in fan prevents it from overheating during heavy use, and the sturdy construction makes it easy to mount.

CR1080 GAMING CASE

Recommended Parts



WATER COOLING



RGB FAN

The BiFrost 120ti new generation water-cooling solution: The BiFrost 120ti is a new generation water cooling solution for both AMD and Intel platforms. Using a 45mm extra thick radiator, the BiFrost 120ti uses more liquid, improving its cooling performance.

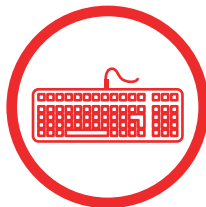
RIOTORO LED FAN , Cross X Red, White or Blue: The FW120 delivers unparalleled Cooling Performance with its Precision-Molded Fan Blade Design and a Fan Speed of 1500 RPM. The FW120 exceeds expectations with a very comfortable 26.5dB decibel noise rating

CR1080 GAMING CASE

Recommended Peripherals



GAMING MICE



GAMING KEYBOARD

The URUZ Z5: It delivers precise tracking complimented by professional design. The URUZ Z5 offers on-the-fly DPI adjustments up to 4,000 DPI, Multicolor RGB Customizable Back-lighting up to 16.8 million different colors.

The Ghostwriter Classic: is a brand new keyboard featuring unique stealth design and low-profile, quiet membrane keys blend understated style with comfort and quiet efficiency.

The Ghostwriter PRISM: features cutting edge stealth design with German made Cherry MX switches. With many different options to choose from, the Ghostwriter PRISM keyboards have been designed to enhance your gaming style.

4

Everything Else

CR1080 GAMING CASE

Important Safety Information

In order to achieve maximum safety while using your CR1080 GAMING CASE, 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 RIOTORO hotline or go to www.riotoro.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 switch off the device and let the temperature stabilize to an optimal level.

Operational Safety: 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 CR1080 GAMING CASE.

- **Position:** your keyboard, mouse and monitor need to be placed directly in front of you. Place your elbows next to your side, not too far away and your mouse within easy reach.
- **Height:** Adjust the your chair and table so that the keyboard and mouse are at or below elbow height.
- **Support:** Keep your feet well supported, posture straight and your shoulders relaxed.
- **Operation:** 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.
- **Customization:** personalize your keyboard to suit your style of gaming in order to minimize repetitive or awkward motions while gaming.
- **Activity:** Ensure that you et up, step away from your desk and do exercises to stretch your arms, shoulders, neck and legs; do not sit in the same position all day.
- **Safety:** 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.

General Maintenance

If you need to clean your gaming computer by doing more than wiping it down with a clean cloth, follow these instructions:

- Complete power down of your machine, display and peripherals.
- Disconnect all the power cables from the electrical outlet power strip.
- Disconnect all peripherals from the machine.
- Clean the machine with a soft, lint-free paper or cloth damped with mild soap and water.

Note: Do not spray liquid directly onto the machine, liquid could drip inside it and cause electrical shock.

CR1080 GAMING CASE

LIMITED PRODUCT WARRANTY ("Limited Warranty")

Limited Warranty. RIOTORO warrants the Product to be free from defects in materials and workmanship when used normally in accordance with the official documentation for the applicable Warranty Period from the date of retail purchase.

Exclusions and Limitations. This Limited Warranty does not cover:

- Software, including (without limitation) software added to the RIOTORO-branded hardware products or third-party software;
- Non-RIOTORO branded products and accessories, even if packaged and sold with the Product;
- Problems with and/or damage to the Product caused by using accessories, parts, or components not made by RIOTORO;
- Damage caused by service (including upgrades and expansions) performed by anyone who is not officially acting as an employee, representative or sub-contractor of RIOTORO;
- Claims arising from any unacceptable use or care of the Product;
- Claims arising from external causes, including (without limitation), accidents, acts of God, liquid contact, fire or earthquake;
- Products with a serial number or date stamp that has been altered, obliterated or removed;
- Cosmetic damage, minor cosmetic abnormalities (including minor pixel abnormalities) and normal wear and tear, including (without limitation) scratches, dents and chips.

For the latest and current terms of the Limited Product Warranty, please visit www.riotoro.com/warranty.

RIOTORO

Technical Support and Customer Service

US & Canada

1-888- 270-7090

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customerservice@riotoro.com

sales@riotoro.com

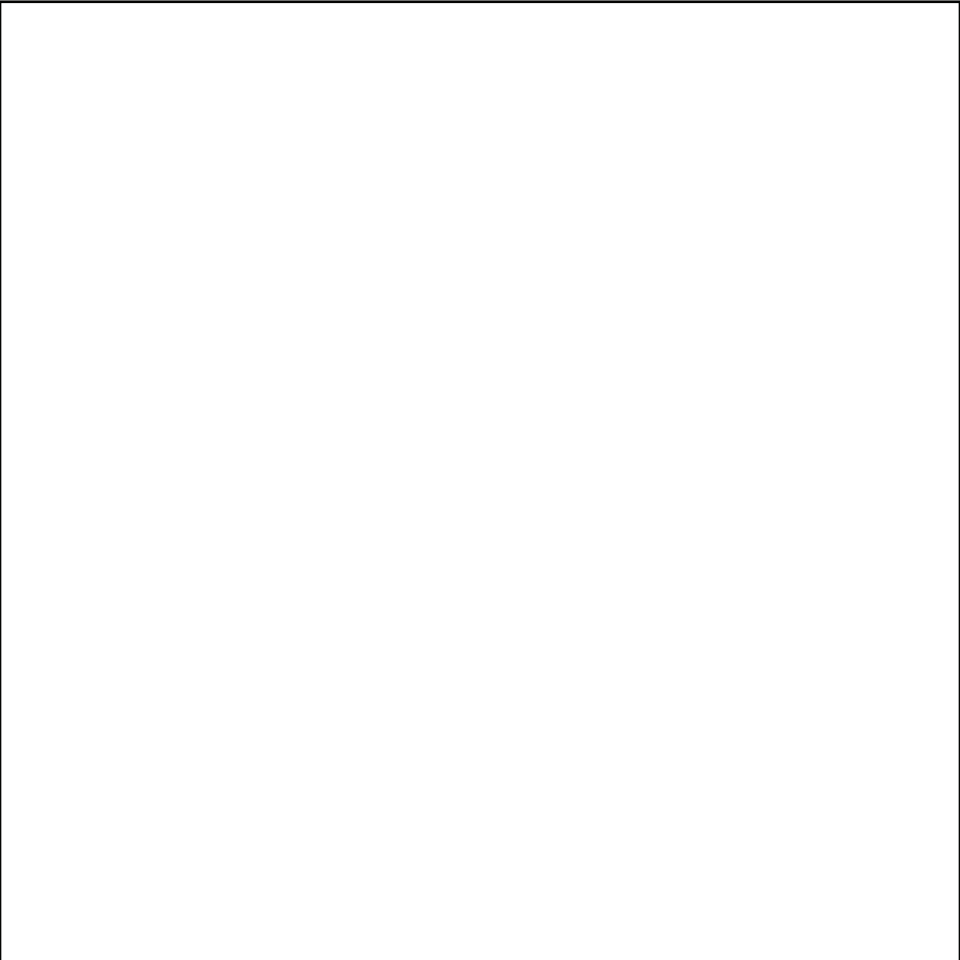
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