2023 PORTFOLIO

AKSHAY BHURKE

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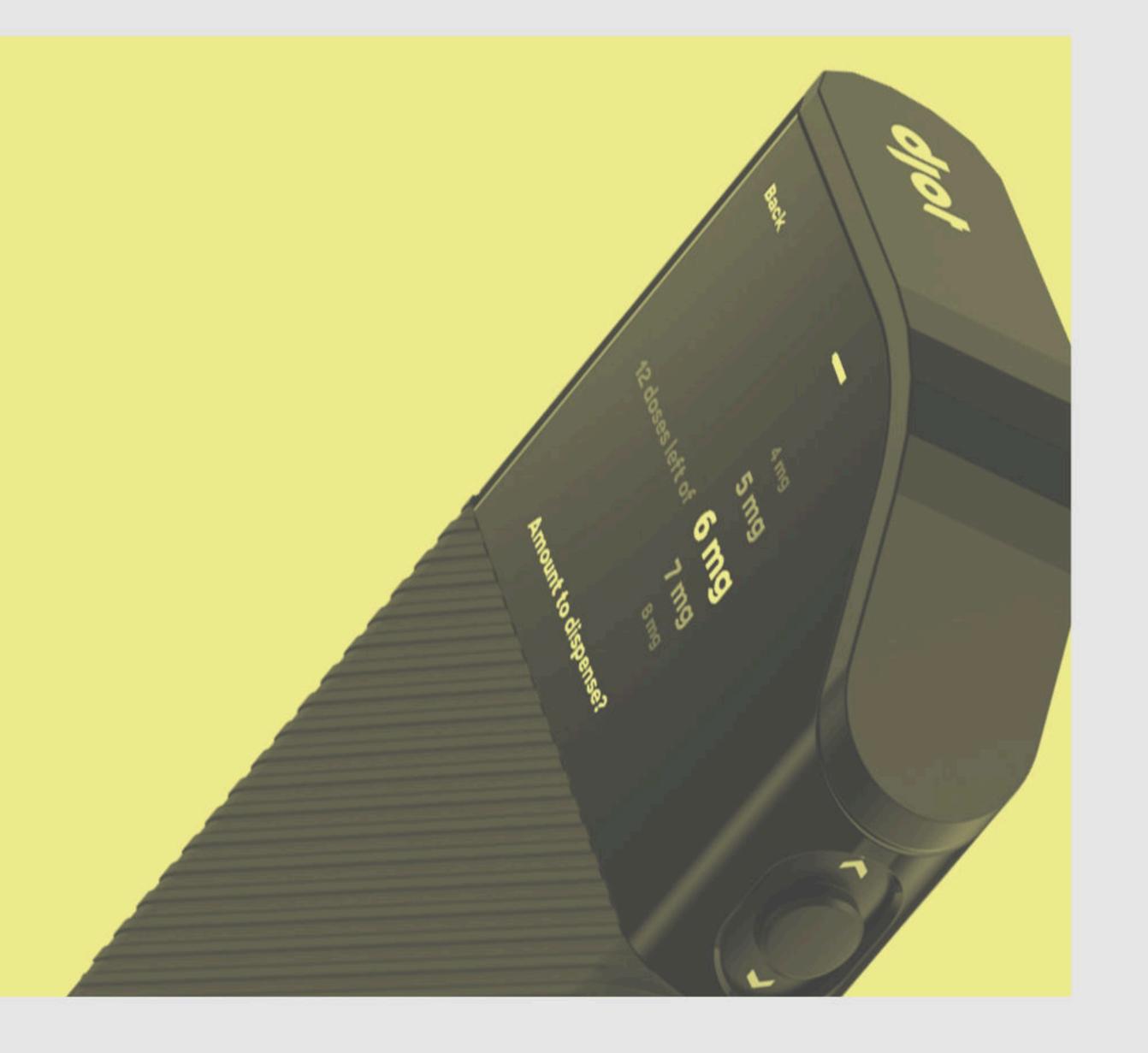




CANNABIS OIL DISPENSER

Client Project

A revamp of Djot's Smart Cannabis Oil Dispenser Prototype based on their new branding and existing engineering constraints.



Requirements and Constraints

Cartridge loading - Cartridge loading should remain the same (In from bottom) due to engineering constraints.

Upright grip – Due to cartridge design, dispensing needs to be done with device held roughly perpendicular to ground, and the intended grip should allow this easily.

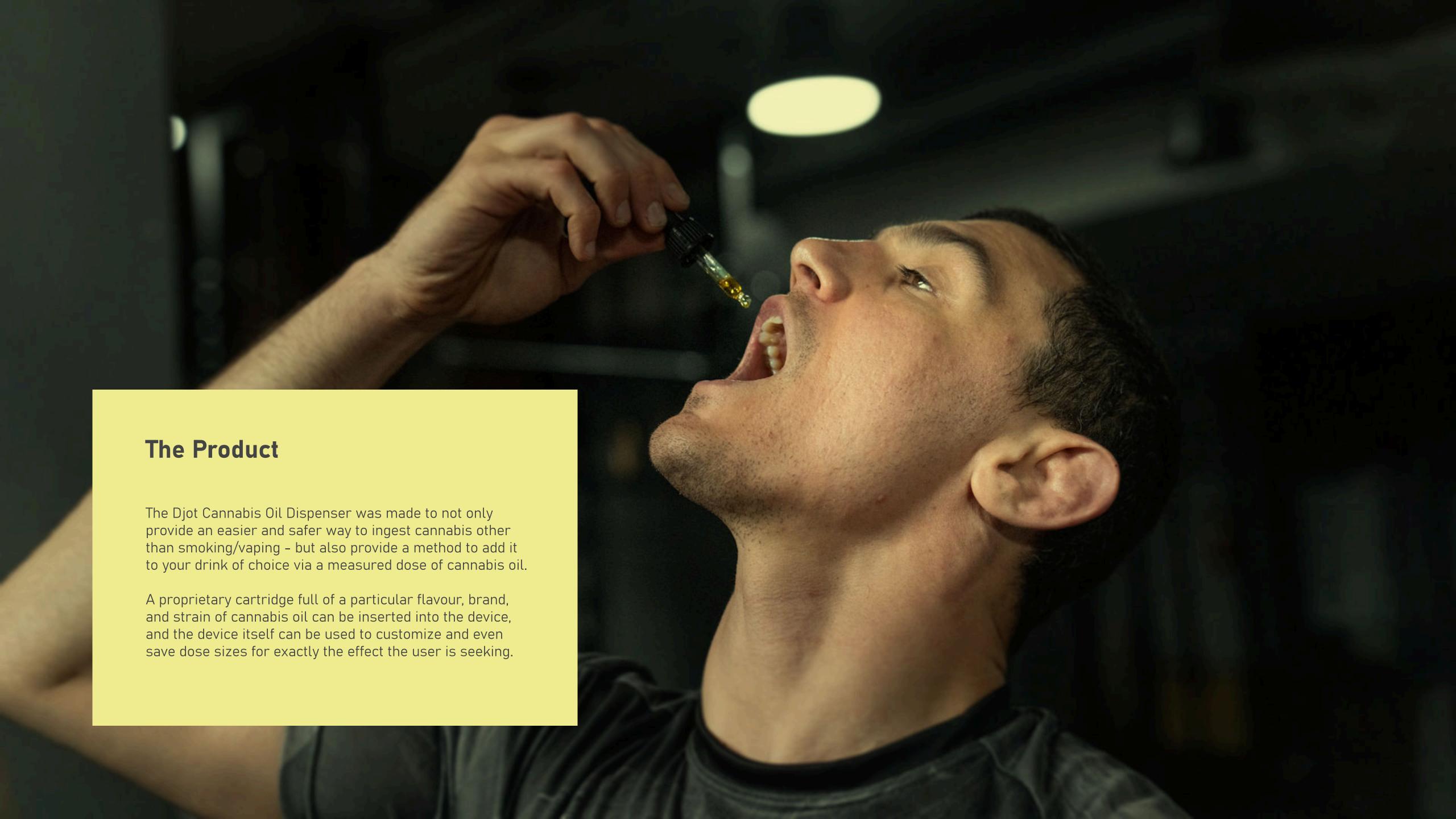
Leakage proof - Create solution for temporary sealing of nozzle.

Fidgetability - Create moments in the design that could contribute to fiddling or fidgeting with device when not in use.

Design should pair well with new branding - bold, eye-catching, youthful.



The Original Cannabis Oil Dispenser Concept.







The Directions

Slanted Top Primary Interface - Wheel on slanted top surface with click for selection. Power button on top.

Diagonally opposite cut on the bottom edge to pull out cartridge.

Cons - Unstable upright stance without cartridge.



Slider -

Primary Interface - Slider on side with click for selection. Power button on opposite side.

Middle Section Cutaway for cartridge access.

Cons - Awkward stance without cartridge inserted.



Side Wheel -

Primary Interface - Wheel on slanted side with click for selection. Power button on front.

Middle Section Cutaway for cartridge access.

Cons - Awkward stance without cartridge inserted.



Final Approved Concept

The final design approved by the client was a culmination of a lot of great ideas put together into one, refined and tweaked just enough to be able to create one solid solution, functionally and aesthetically.

Presenting the Djot Dispenser.

Fidgetability

The Dispenser is chock-full of moments and features that provide fidget points – running your finger over the faceted edges, the slider button, the swappable grip bands, the cartridge slide cover, etc.



A small depression in the slider mechanism is present for some grip, and stays in line with the faceted design language.

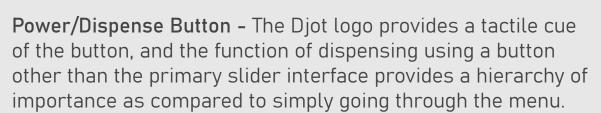
Djot Drop Indicator - The icon is present in line with the nozzle at the bottom - allowing the user to be confident that their dispensing will go exactly where they want it to while holding the device upright.

Leak Proofing

Each cartridge has a built-in slider mechanism that helps seal the valve when not in use. The slider itself plays into the fidget factor tremendously!



Light-up logo - Provides a very apparent branding cue, as well as an indicator light that can define various functions (i.e. pulsing could mean it's ready for dispensing, static light on could simply mean the device is on, etc)



Brand Congruency

The Design features a few branding cues, some in your face, and some discreet. The overall look feels tailor-made for Djot - It's bold, young, and lively, just like the branding.





TE BULG

HOOKAH CONCEPT

Personal Project

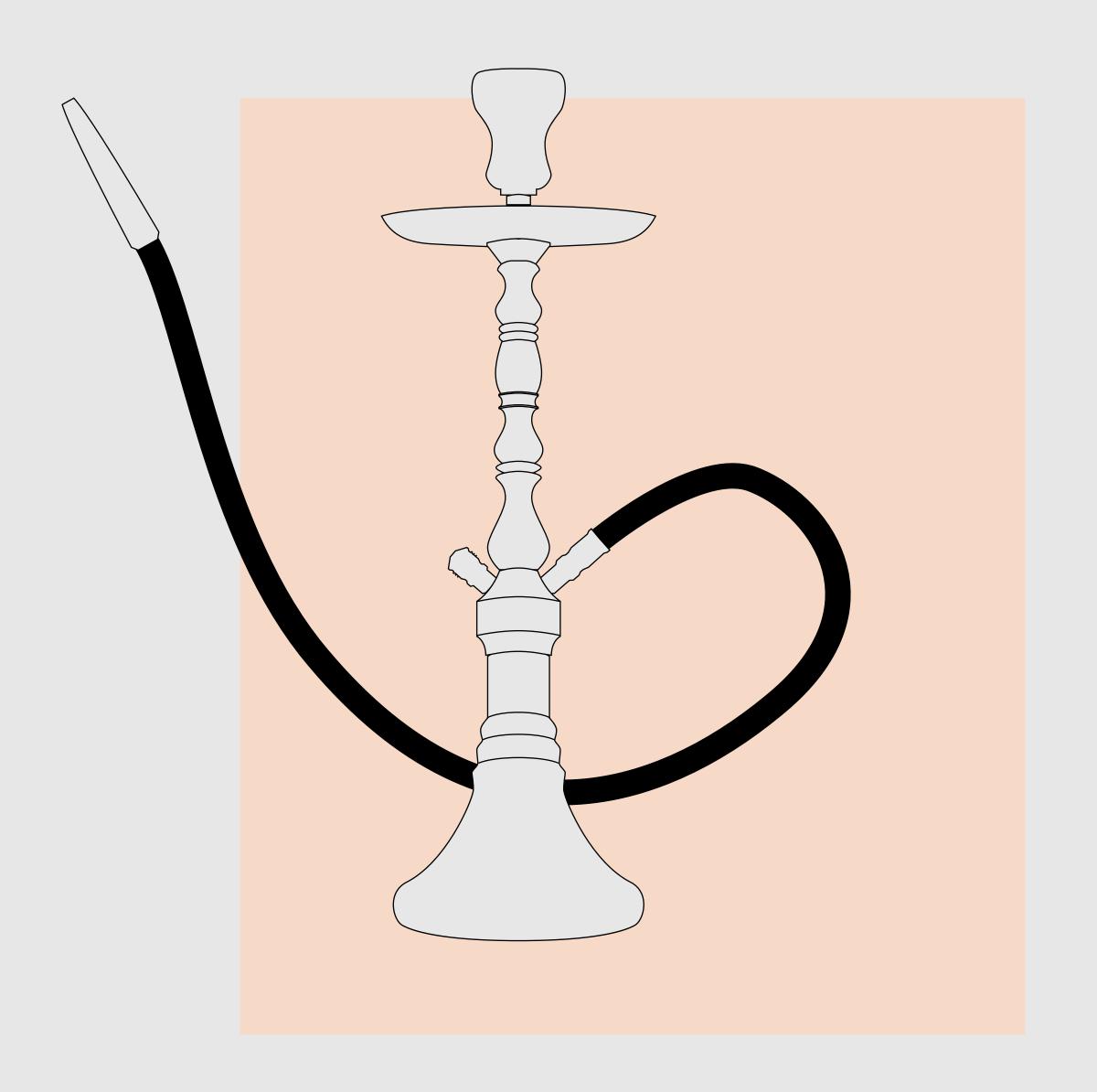
A modern take on the Hookah, with an emphasis on it's sharing functionality.



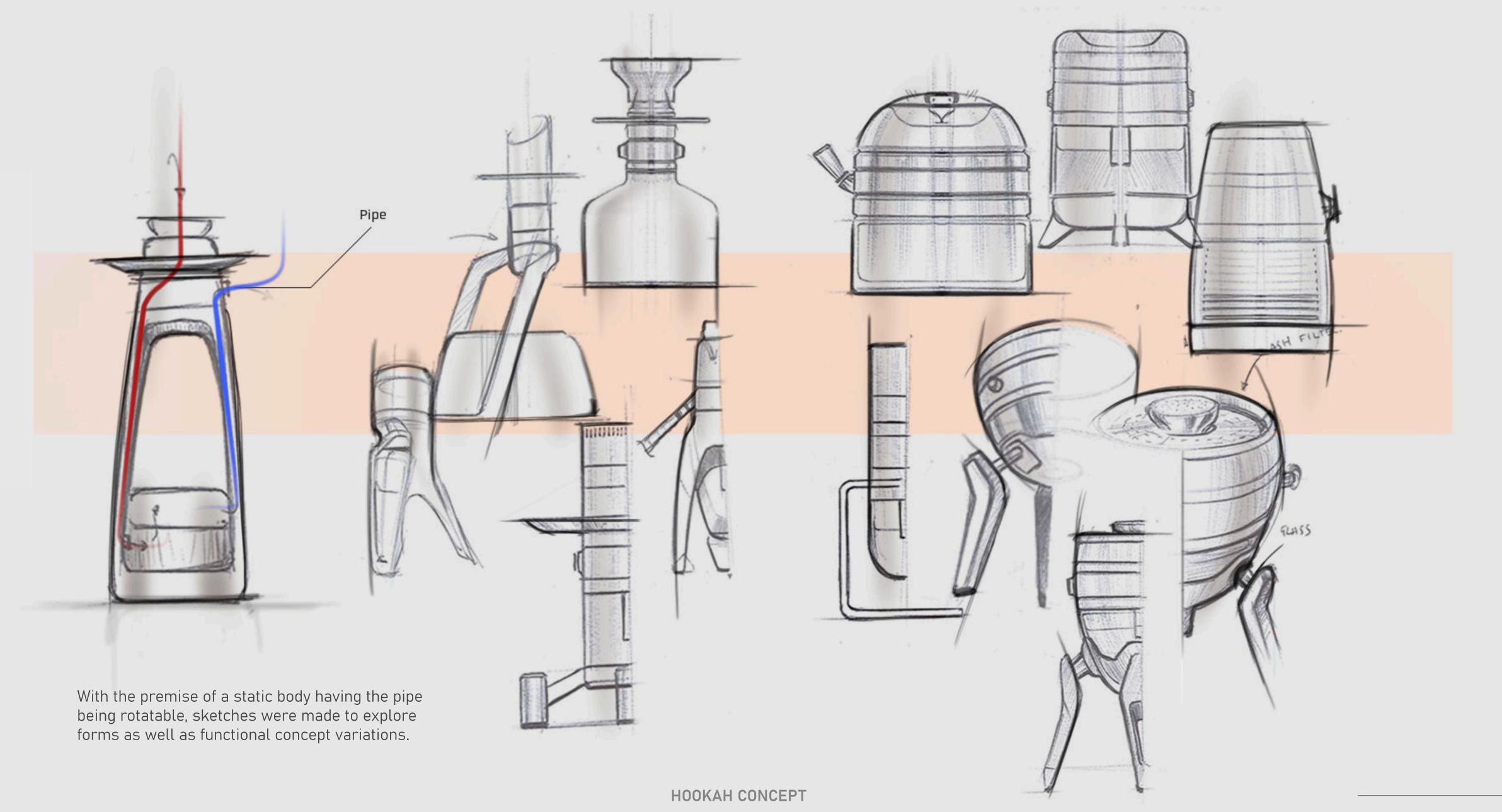
What is a Hookah?

The activity of smoking from a Hookah has been around for centuries, used by Emperors all the way to their current use in modern lounges.

A 'Chillum' of flavoured molasses is heated by coal, to emit smoke. The smoke passes through a base of water which filters out larger particulates from the smoke before being inhaled by the smoker.











FIER BUILT

Definition - A cloud of gas in outer space.

Comes from the Latin word **nebula**, meaning "mist, vapor, fog, smoke, exhalation."



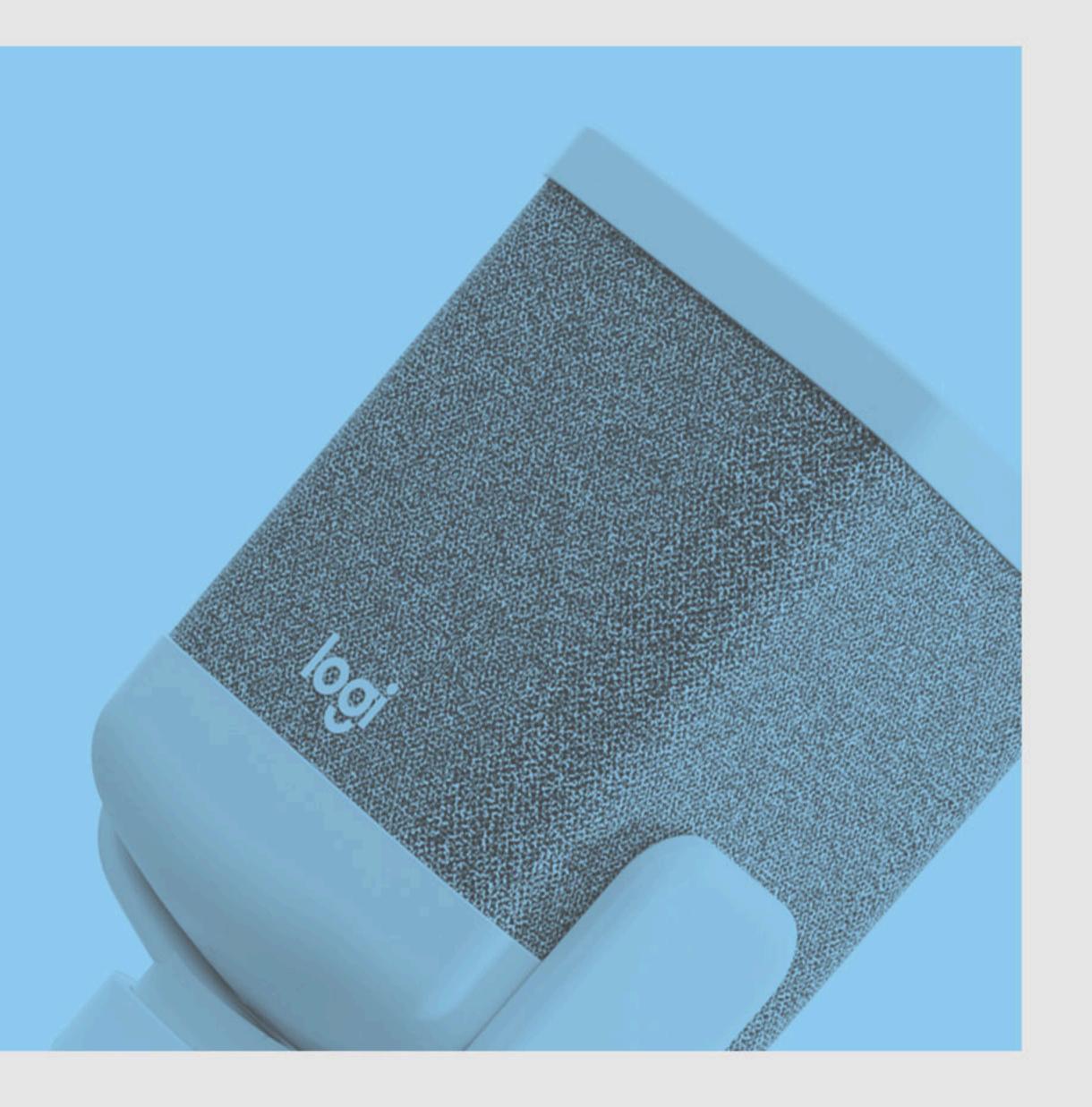
DEAULT -



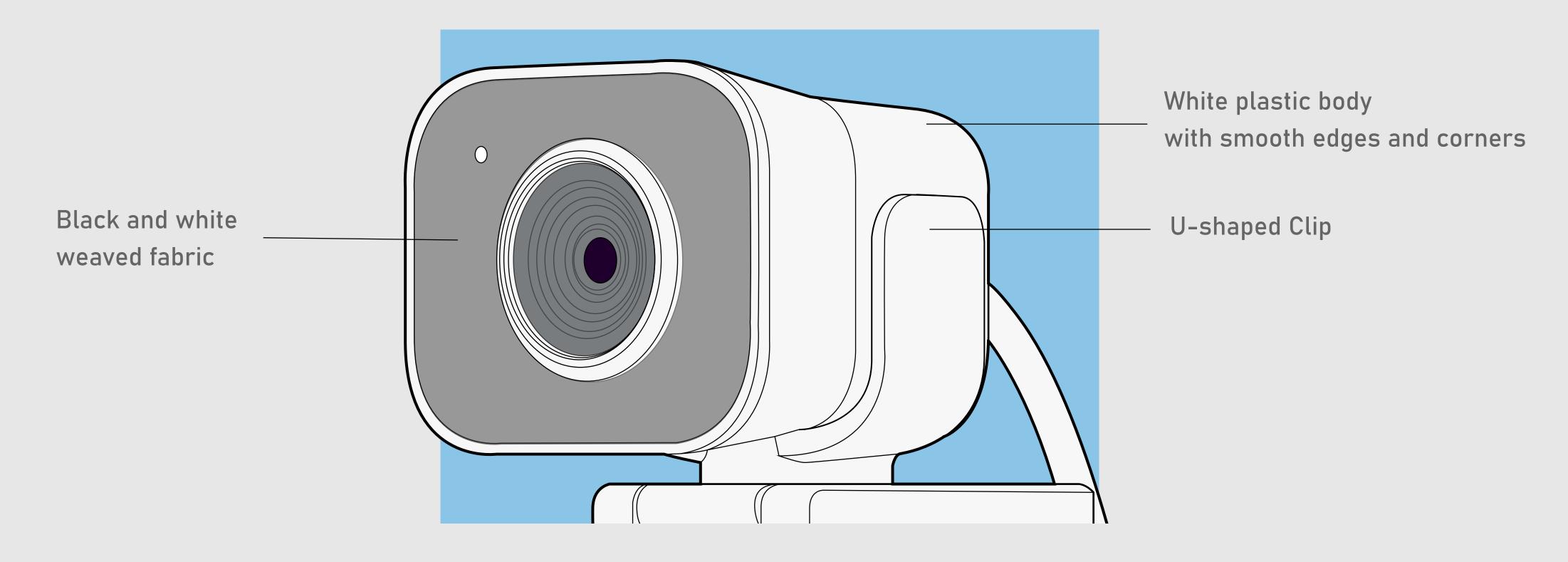
DESKTOP MIC CONCEPT

Personal Project

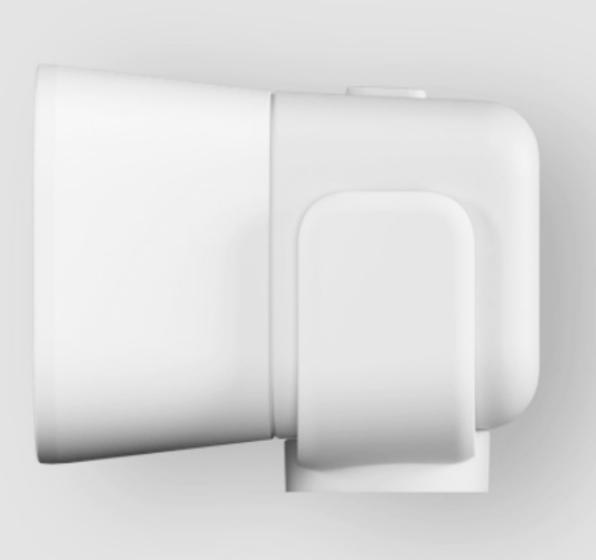
A conceptual design inspired by the existing Logitech StreamCam's design language and ease of use.



LOGITECH STREAMCAM DESIGN LANGUAGE







The Logitech StreamMic follows the design principle of the StreamCam - it's form is inspired by the classic microphone icon.



Form and Function

The StreamMic stays true to the StreamCam aesthetic – utilizing soft, inviting fabric and a monochrome body. The Mic comes with a tripod with pivoting legs, while the mic itself can also tilt forward and back.









Just like the StreamCam, the StreamMic comes in Black and White.

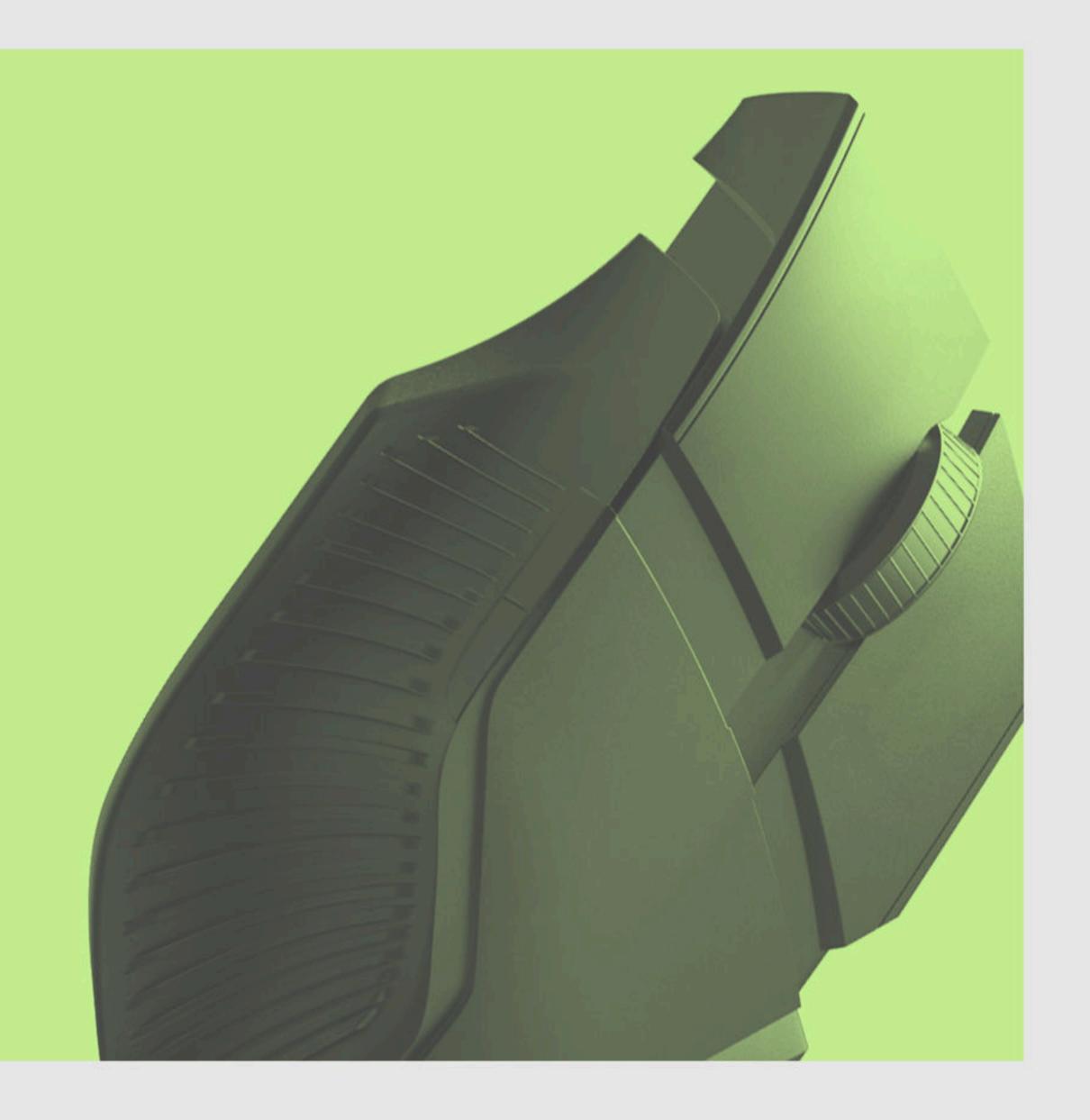


Claw.

GAMING MOUSE CONCEPT

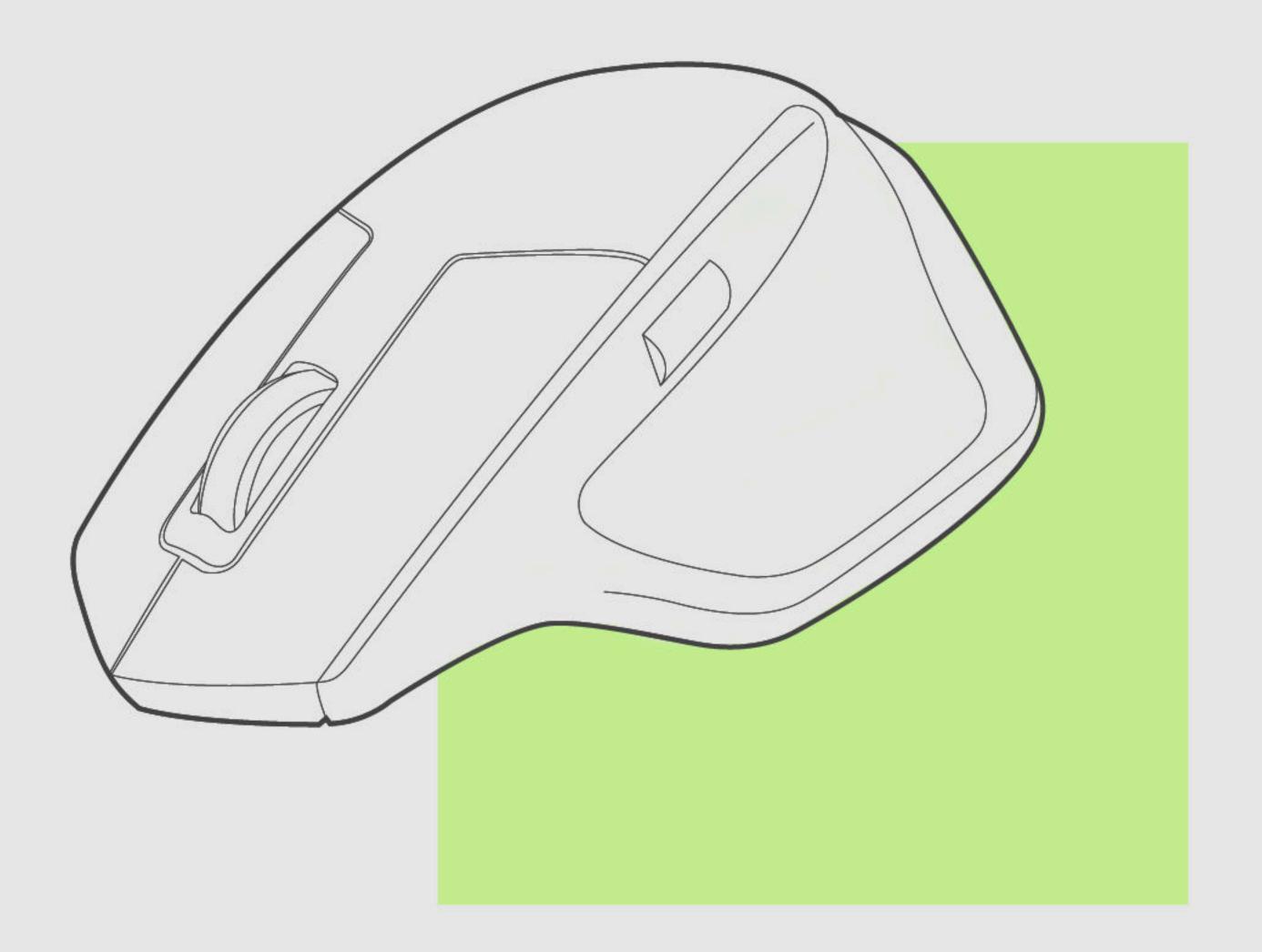
Personal Project

A Gaming Mouse allowing customization for different hand sizes and grip styles.



Problem Statement

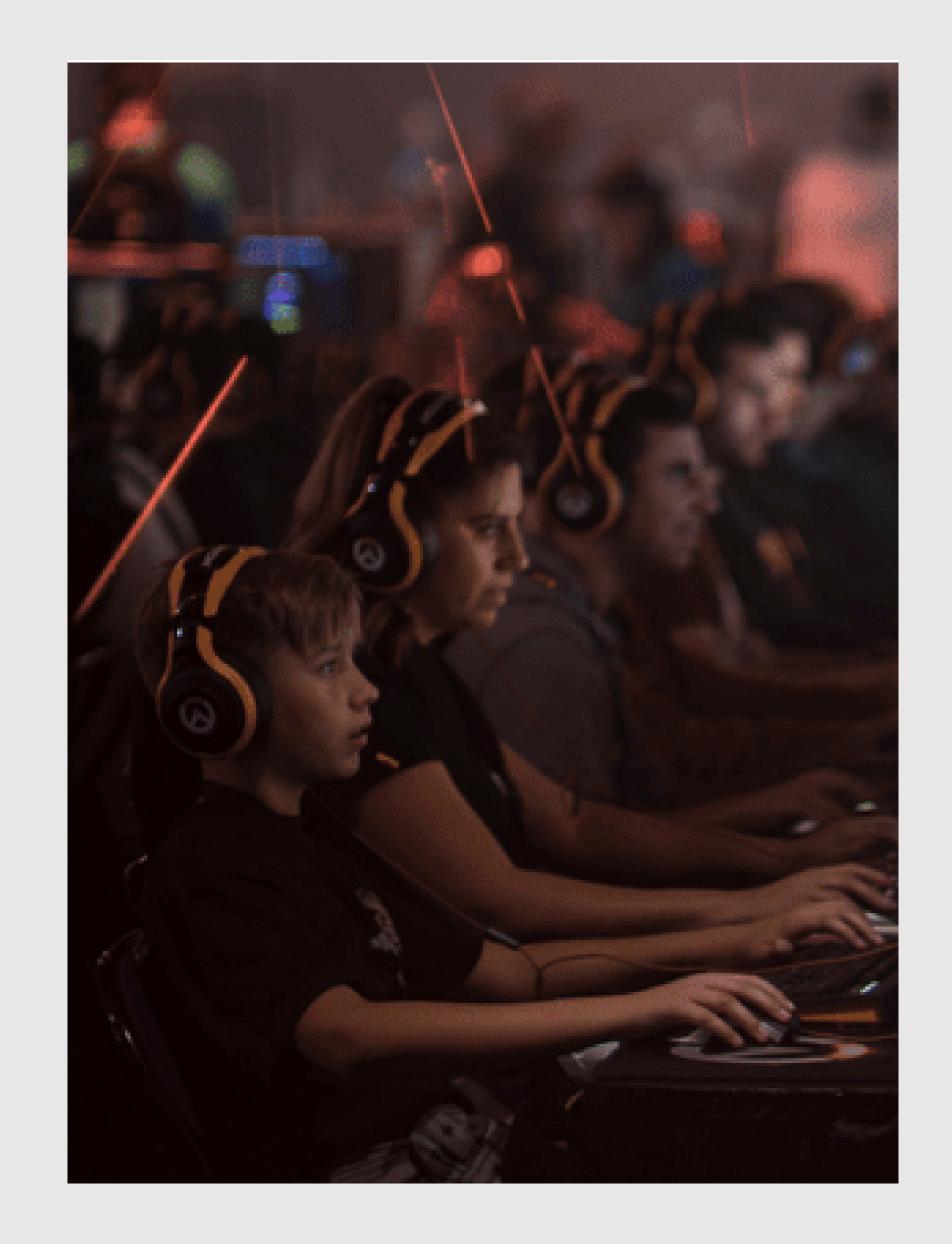
To create a Gaming mouse that provides comfort and customizability to a wider range of hand sizes, keeping in mind the various grip types that are used while maintaining focus on ergonomics and functionality.

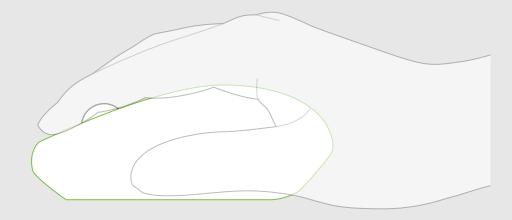


Target Audience

The gamer community puts personalisation at a very high priority. Each gamer has a unique style of play based on their comfort and different anthropometric measurements. This style generally even differs among games as well.

Customization generally takes the form of programmable extra buttons, swappable parts like thumbrests, and even small modular weights to make tiny changes in weight as per the user's comfort.







Palm and fingers rest on mouse

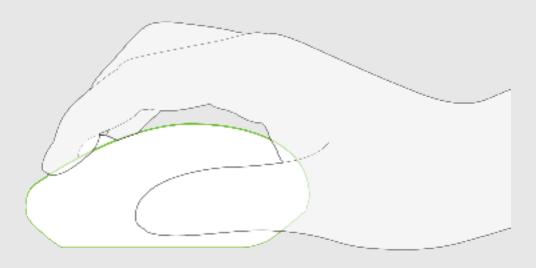
Probably most common grip style



Claw Grip

Thumb-Ring-Pinky + base of Palm control the mouse movement

Only tips of index and middle finger rest on mouse buttons

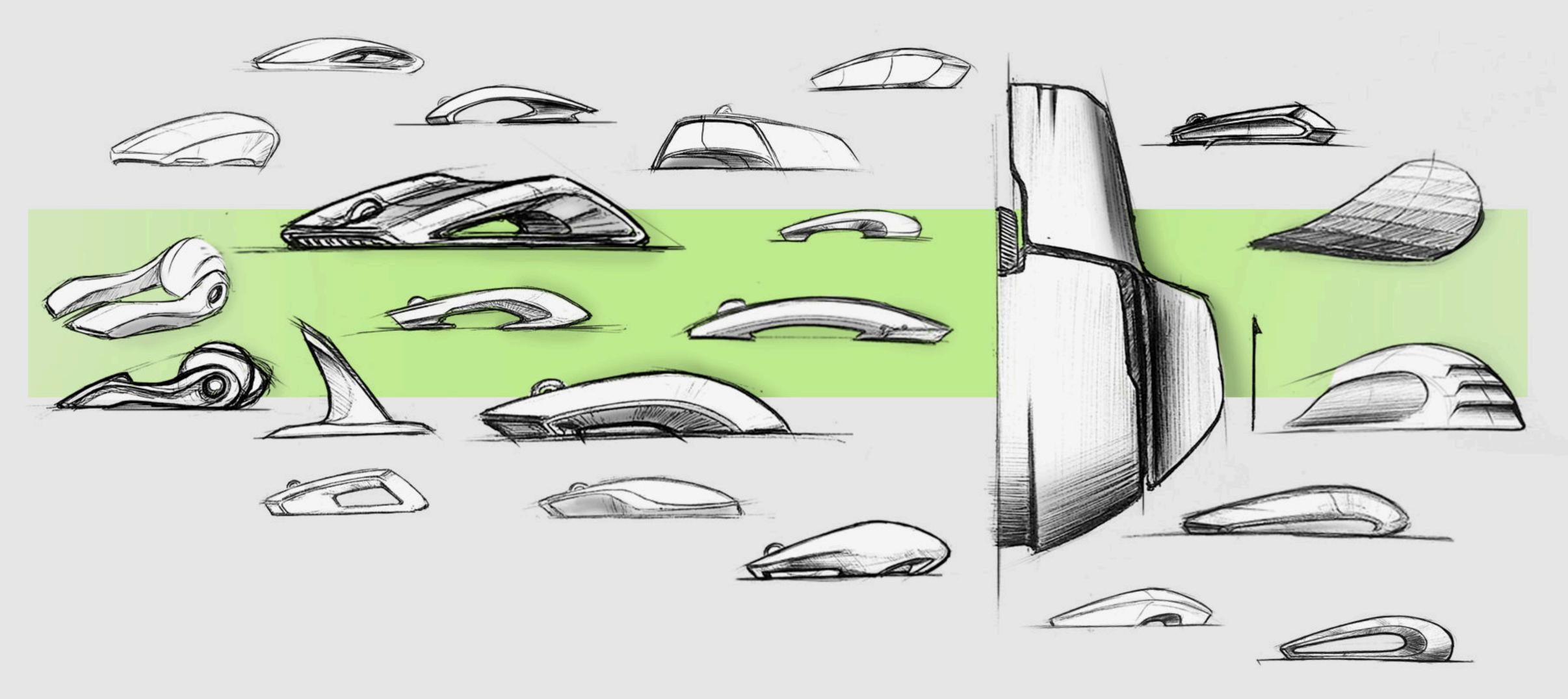


Fingertip Grip

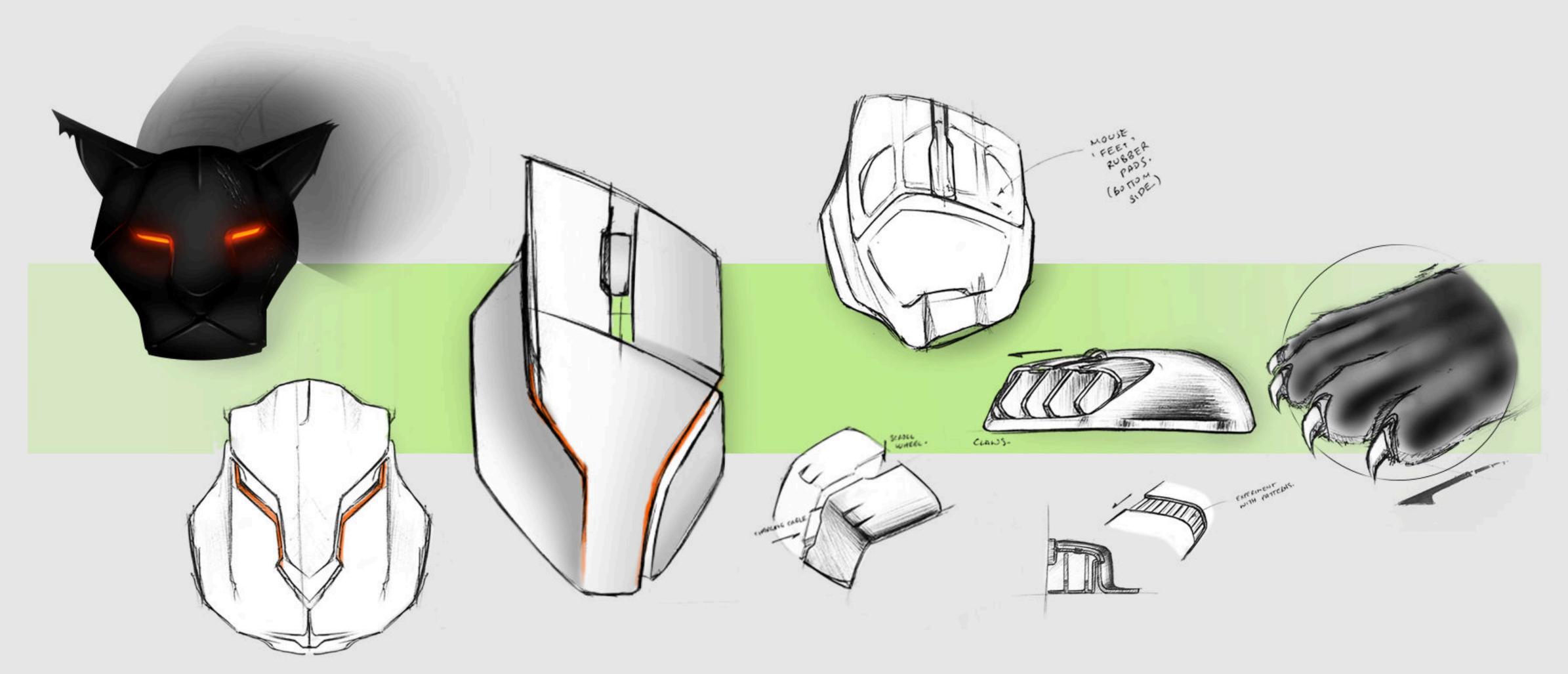
Only finger tips control the mouse movement

Generally used with mice that are small for the user's hand

Despite the individual styles of each gamer, some styles have emerged popular and largely adopted. These are small changes in how the mouse is held and how each or both mouse buttons are pressed.



Initially ideated on forms and features to allow exploration without set constraints.



To be able to provide a solution that can fit smaller and larger hand/finger sizes, we'd need to be able to extend and retract the overall length of the mouse. This reminded me of the way cats can extend/retract their claws.









The first prototype was made to test the basic mechanism. The inference obtained from making it was that the split point between the body and the two mouse buttons must be flat to avoid abrupt steps/lack of curvature continuity when the buttons are extended.

The second and third prototypes were for grip testing and dimensioning.









MAX 135 mm

The mouse buttons can be extended and retracted independently of each other (A maximum of ~20 mm each), providing a new level of modifiability for comfort.









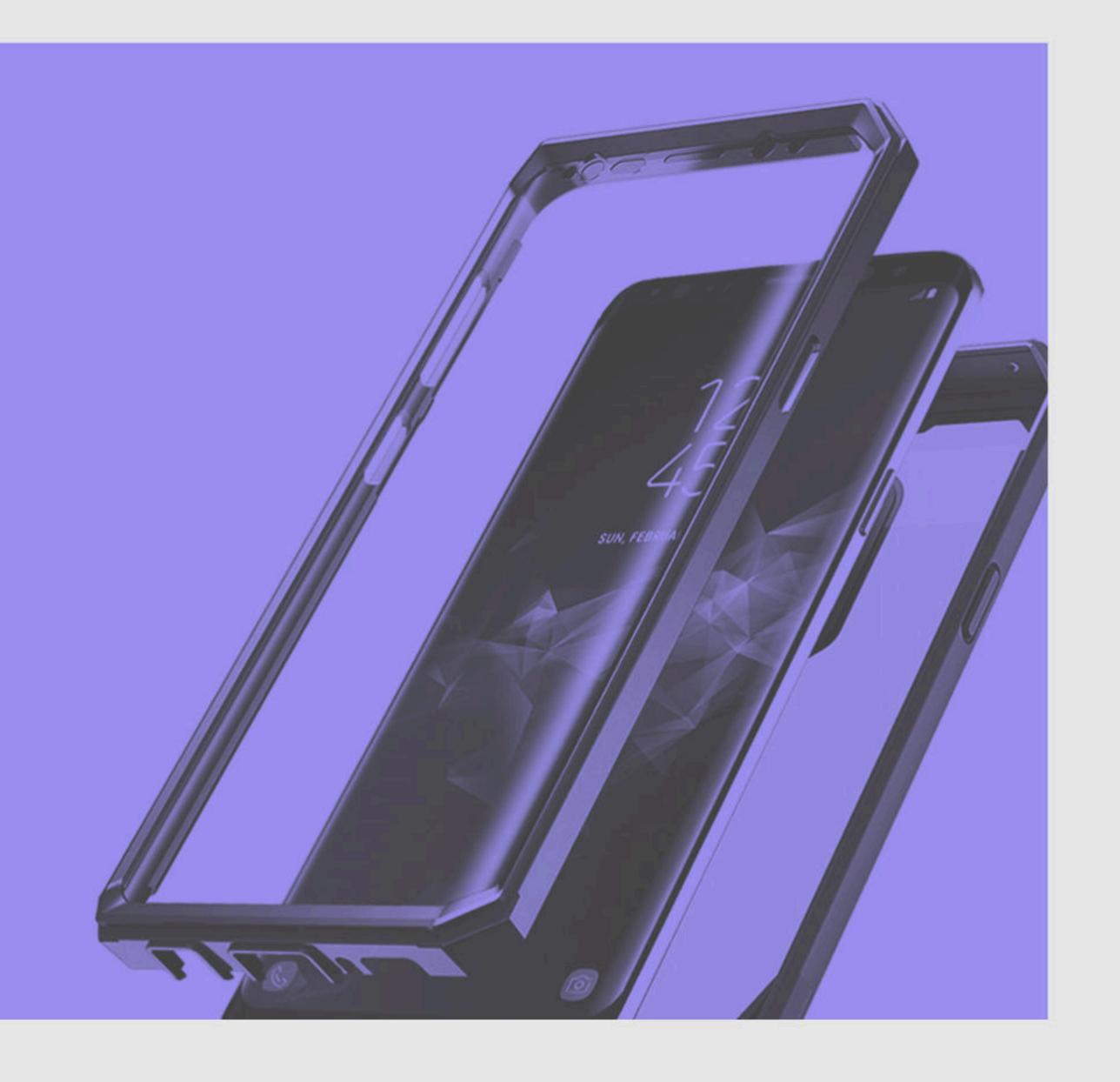


POETIC

PHONE CASES DNA

Client Project

Redesigning Poetic's entire line of Phone Cases to adapt to aesthetic trends.



Problem Statement

Poetic Cases, a firm based in San Francisco, California, was looking for a facelift of their lineup of phone cases.

They already had fairly successful cases in the market, but wanted a look that would appeal as a more sophisticated range of cases rather than a bulky, rugged aesthetic like the older cases possessed.



















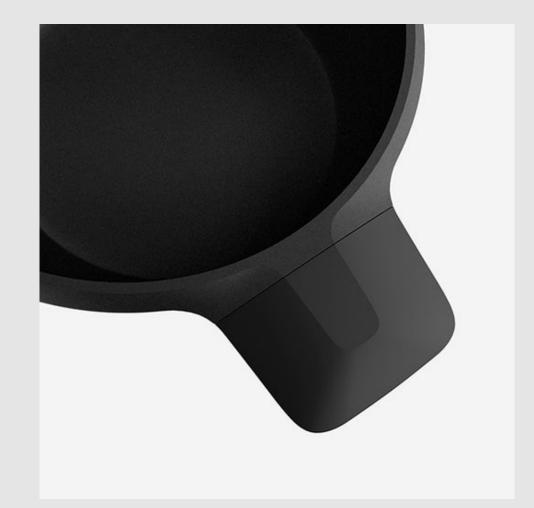


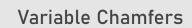
New Y-Form

Old X-Form

Without losing the original visual and functional protection of the previous design language, called 'X-Form', we wanted to see certain parameters evolve to keep up with the changing trends.

This brought us to developing Y-Form, the new iteration in Poetic's look and feel.







Clarity



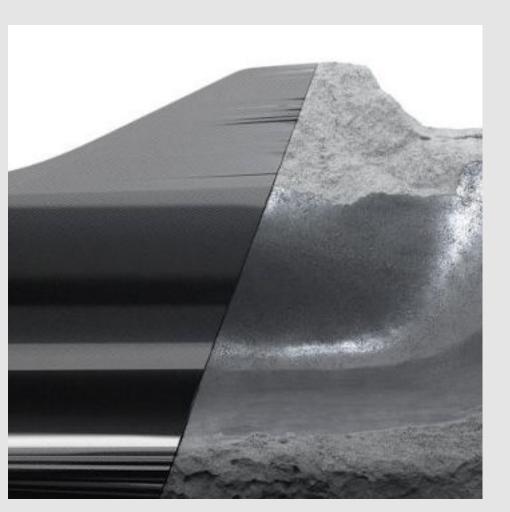
Y-Prong Design

Y-Form Design Language

These few principles were used to develop and ideate numerous looks and details for the new line of cases.



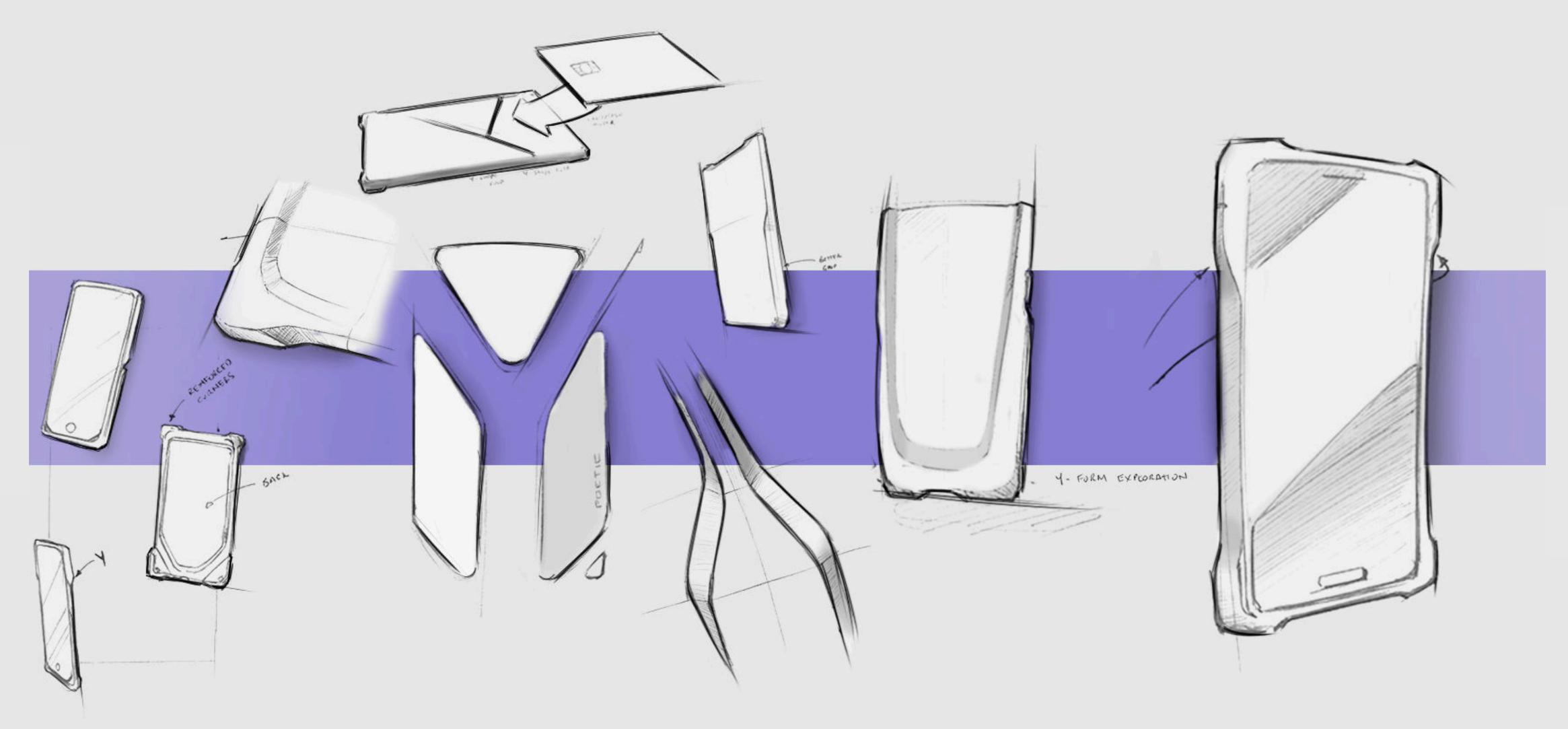
Discreet Protection



Material Duality



Reinforced Corners



After some initial forms and details were made on paper, the majority of form development and iterations were created on Illustrator, providing us and the client with enough options to choose a few and refine them.



Illustrator proved to be a very useful tool in making quick iterations of design concepts.

Final Line-up









Poetic Guardian

2-piece case with built-in screen guard PC+TPE construction
Ports have openable flaps

Poetic Revolution

2-piece case with built-in screen guard PC+TPE construction
Ports have openable flaps

Poetic Karbon Shield

Single piece case PC+TPE construction Textured back

Poetic Lucent

Single piece case PC+TPE construction

