AN INTERACTIVE ARCHIVE

Lena Pang — Elements III | Project 2

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SECTION I

Project Definition

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- PROEJCT DEFINITION The Opportunity

The Porsche 911 has many, many, many variants.

So many that the terms can quickly become overwhelming and confusing. (What's a 992? Is that a 911? What's the difference between a Targa and a Cabriolet? What does 4S mean?)

There are some articles and videos that give general overviews of the generation, but nothing to provide a detailed, comprehensive, chronological comparison.

Enter: the Porsche 911, an interactive archive.





I - PROEJCT DEFINITION Setting the Scene

ENVIRONMENT

- Porsche museum
- interactive exhibits at car-themed experiences

DEVICE

- 6ft+ tall touchscreen to display cars at scale (inspired by photos at right)
- speakers, ideally in a surround sound setup for a more integrated experience



I - PROEJCT DEFINITION Goals

EDUCATE

- eliminate the barrier of entry by organizing the material to make it less overwhelming and intimidating
- create one cohesive chronology of all 911
 variants, sub-variants, etc throughout time

INSPIRE

- embody the passion and creativity in the 60 years of Porsche 911 variants
- create a visceral experience through scale, interactivity, and sound



I - PROEJCT DEFINITION Use Cases

THE NEWBIE

- anyone new to the car scene, including children
- appeals to fascination and curiosity
- offer an easy-to-digest, intuitive overview of an iconic vehicle
- sound makes it more real/emotive

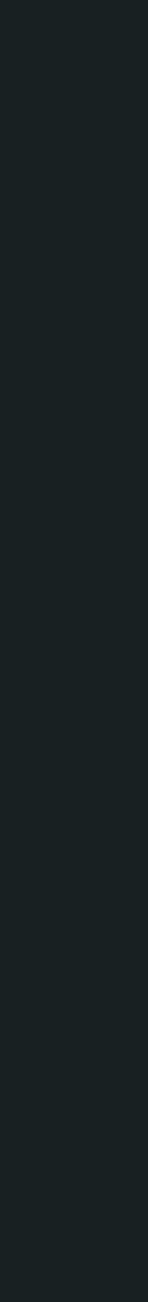
THE VETERAN

 anyone with knowledge or experience in the car scene (car) enthusiasts, engineers, etc)

 appeals to passion/respect shared by most of the car community for one of the most awed cars in history

 beautiful illustrations to stare at, with the added bonus of thorough facts and more complex, detailed overlays/interactions

car enthusiasts love the sound of engines



SECTION II

Research

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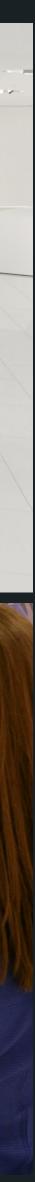


II - RESEARCH Competitive Analysis: Porsche Museum

- located in Stuttgart, Germany
- features an interactive touch wall that allows visitors to explore through a collage of various Porsche models throughout history
- the most innovative car museum, as most others opt to feature static models of cars and/or car parts



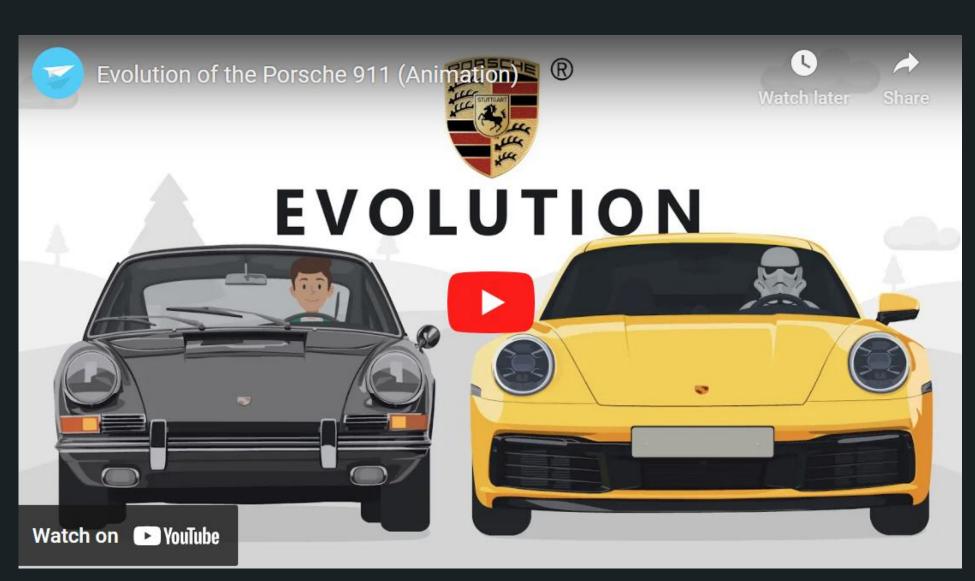
Photos from the Porsche Museum Website





II - RESEARCH Competitive Analysis: 911 Video Chronologies

- lacking in visual intrigue and refinement
- a little hard to look at
- ultimately don't do justice in reflecting the true elegance and sophistication of Porsche
- interactivity (and the subsequent ability to freely and independently explore through different layers and factors) would take the educational experience to a whole new level



https://youtu.be/b38gHIGENNw



https://youtu.be/pbLO-m8y5oU



II - RESEARCH UI Trends: Car Facts & Evolution

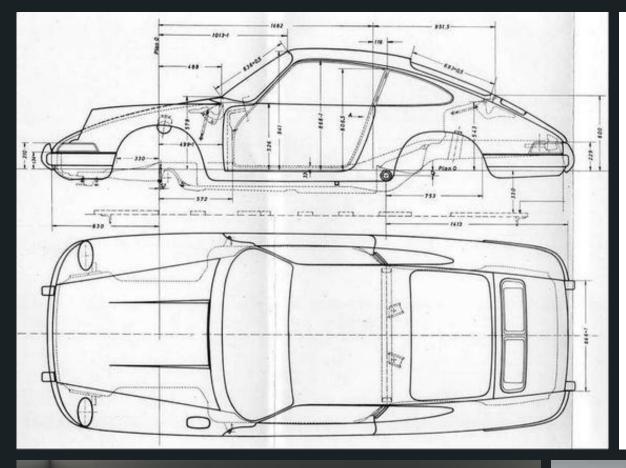
- utilize negative space to make the car itself more visually impactful; has the potential to be made even more effective through interactivity and animation.
- most (static) evolutions show the variations side-byside for easy comparison; could be a useful comparison to have in an interactive experience



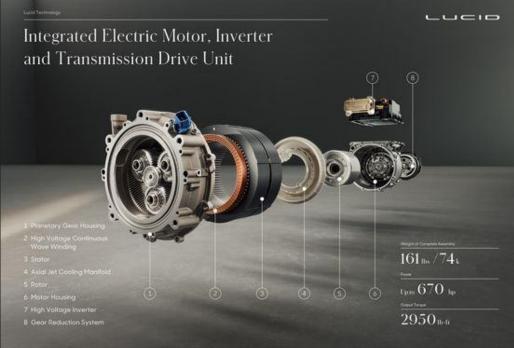


II - RESEARCH UI Trends: Illustrations & Modeling

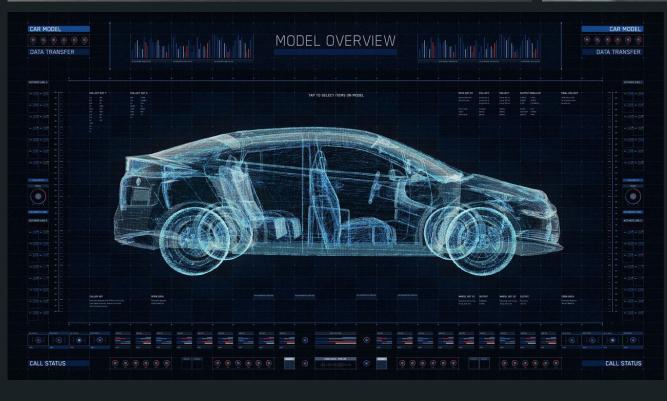
- shows the details and technicalities of a mechanical device
- older style: textured, rigid, detailed style
 reminiscent of blueprints/drafting
- modern style: 3D modeling/animating a see-through version of the device













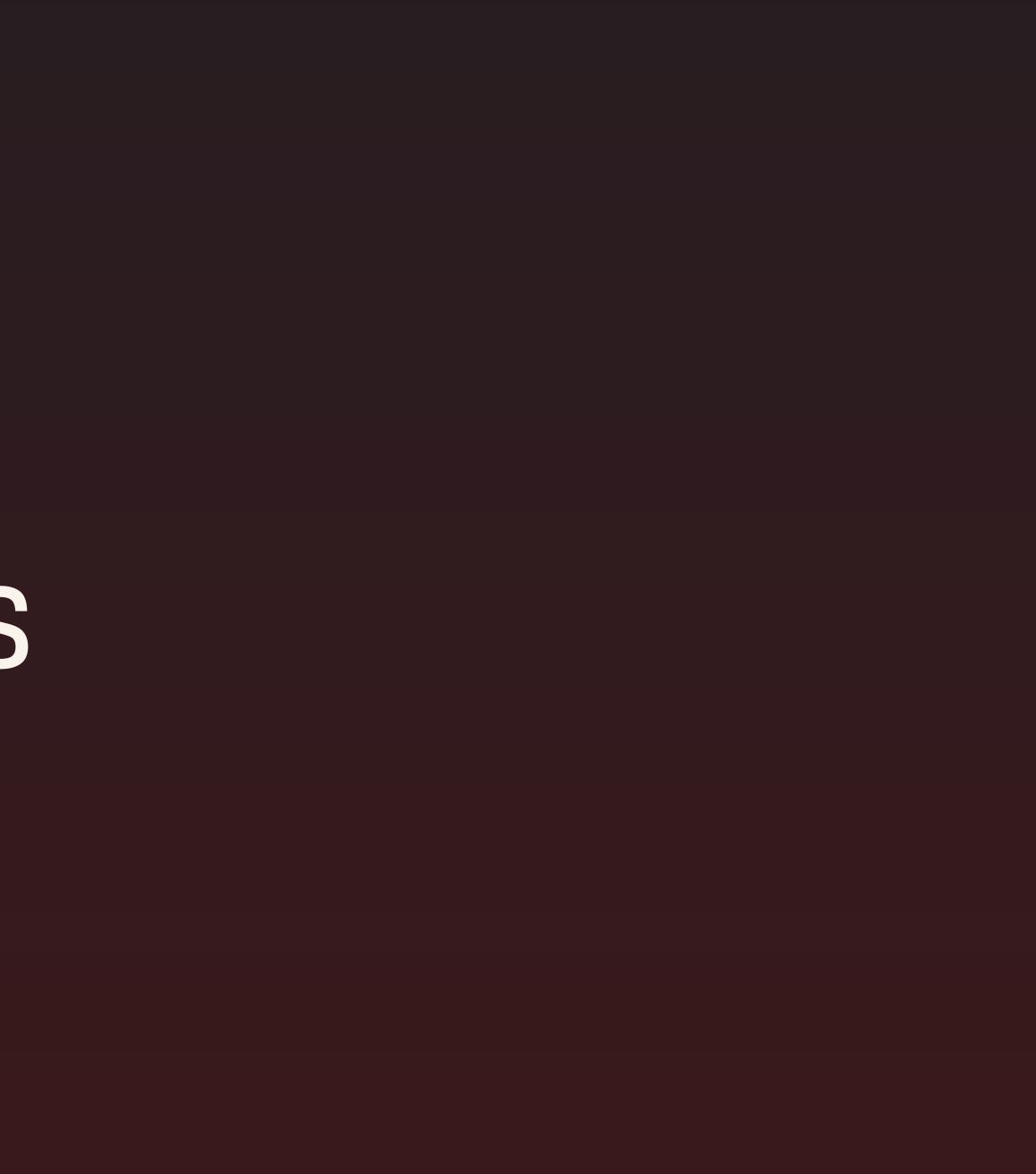




SECTION III

Design Process

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III - DESIGN PROCESS Prototype Flow

IDLE SCREEN

CONTENT

- name of experience/intro text
- "Tap Anywhere to Start" prompt
- animations/sounds of 911 variants
- possibly including footage from famous races/events?

INTERACTIONS

tap anywhere to start

TRANSITION

animations fade out and timeline moves in from right

CONTENT

- vertical timeline
- one main variant (with main specs)
- shows edges of previous/following variants as scroll navigation affordance

INTERACTIONS

- swipe between models
- add filters
- change sorting/grouping metric
- can zoom out to view more variants on one screen

NAVIGATION

- click on view more on a variant
- view all models

TIMELINE SCREEN

TRANSITION

car model zooms in to life sized and sinks to floor, details appear

2 VARIANT SCREEN

CONTENT

- life-sized model
- variant information: name, year, specs, designer, notable features

INTERACTIONS

- inspect key parts (x-ray)
- "rev" engine (plays sound)

NAVIGATION

- scroll vertically to switch between chronological variants
- buttons to view other editions of the same family
- button to go back to view all



III - DESIGN PROCESS Base Grid

4 px base

- 16px grid shown
- 24px padding

VERTICAL SPACING

- vertically centered
- 24px text spacing
- 48px section spacing

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icol system an 1. just like the like index or joinal Tirga model from 1465 in Beclaus a it ivas released during the COVIC ______



III - DESIGN PROCESS Sketches

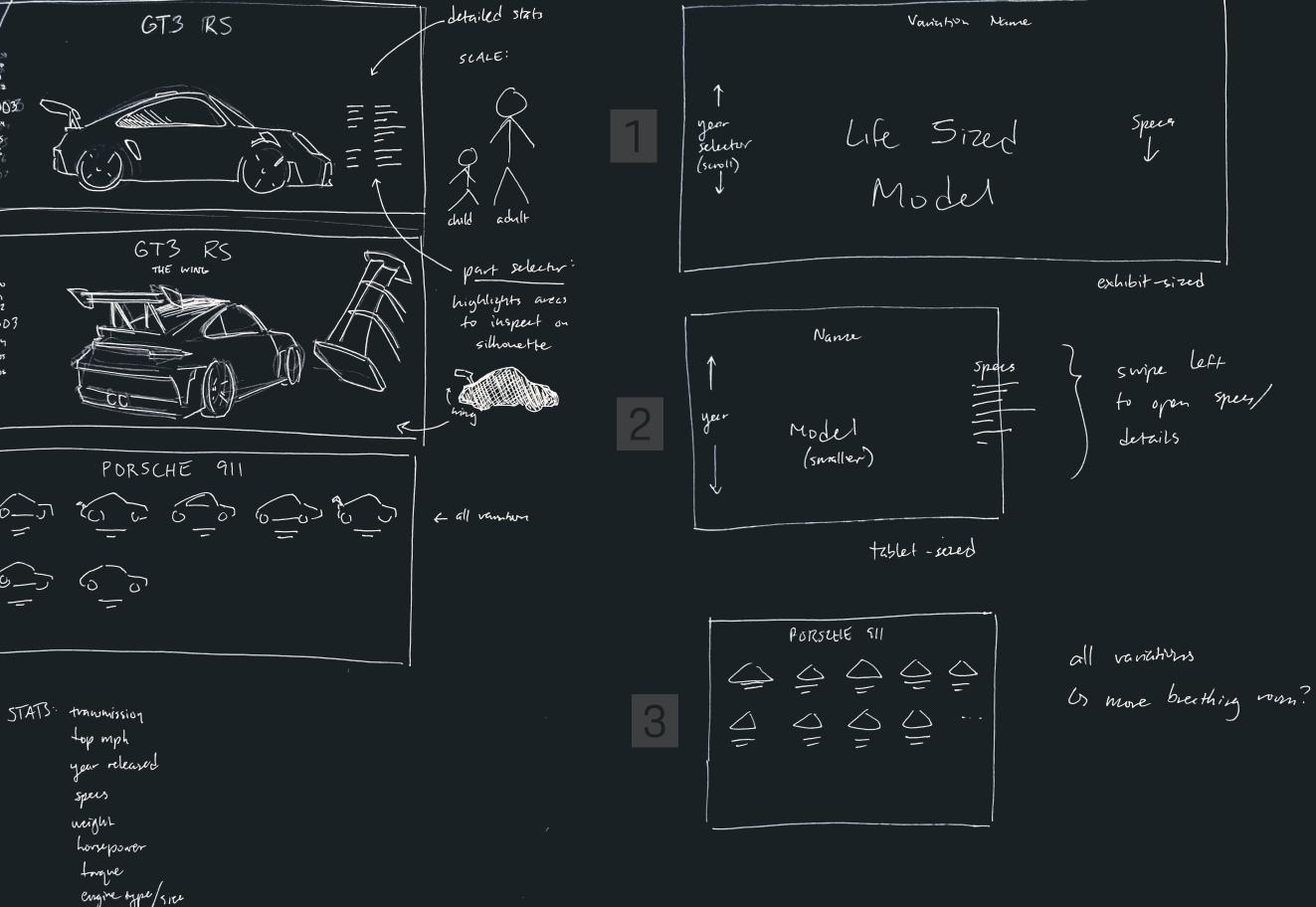
1 - Variant Screen: has specs and a menu to "scroll through the years"

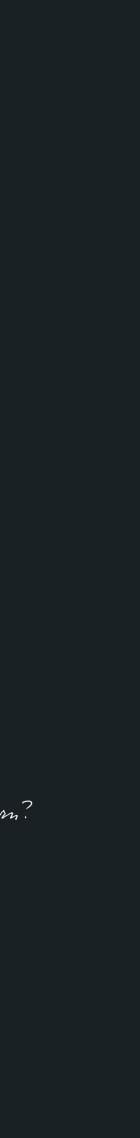
2 - Inspect: zoom in on one part, interactive 3D model

3 - Zoom Out: view more variants at one time (still chronological)

	year sel
1	2003 2003 2003 2003 2004 2006
2	2000 Losh 2017 2003 2004 2004
3	





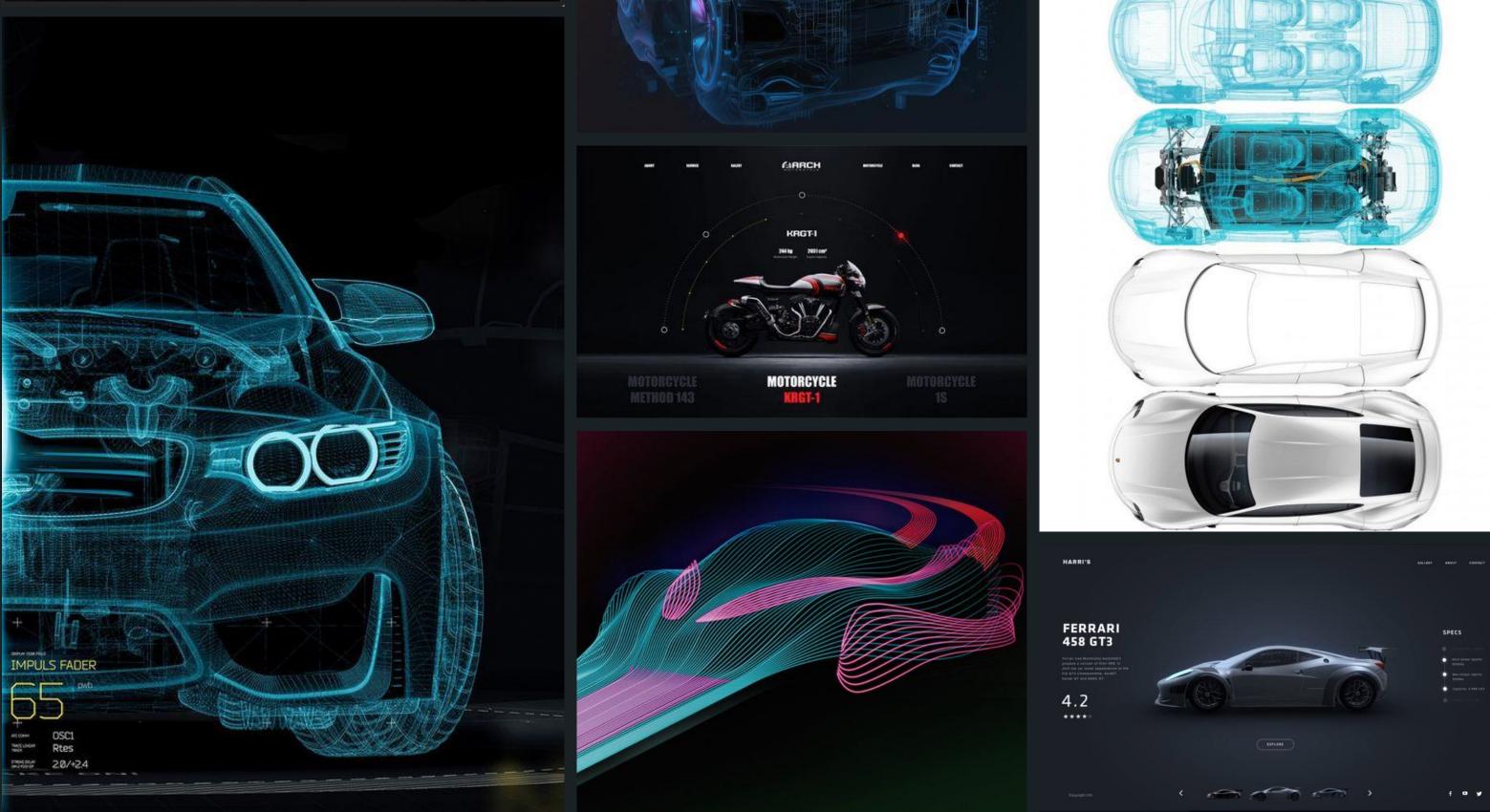


III - DESIGN PROCESS Moodboard 1: Glow in the Dark

Clean, glowing contour lines against a dark background create dimension and depth, easily drawing the eye to the model.

keywords: sleek, hologram, futuristic

TRIP INFORMATION			
TRIP DISTANCE 156,3 km TRIP DURATION 1:20 h 	BATTERY 73 %	RANGE	CONSUMPTION
average speed 85 km/h			CAR LOCKED

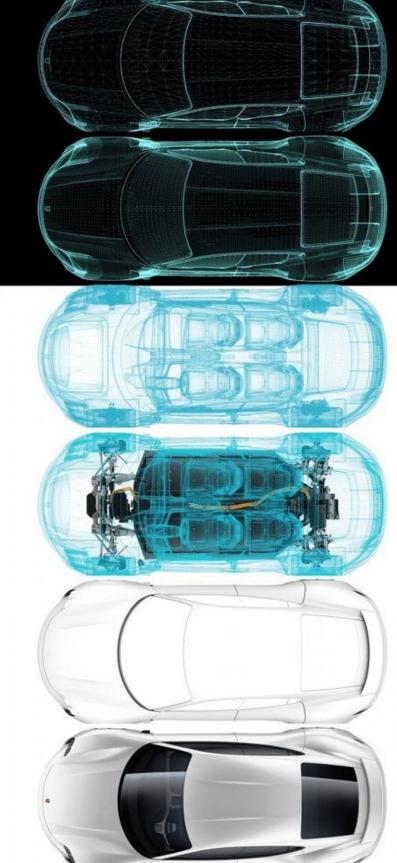


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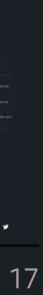








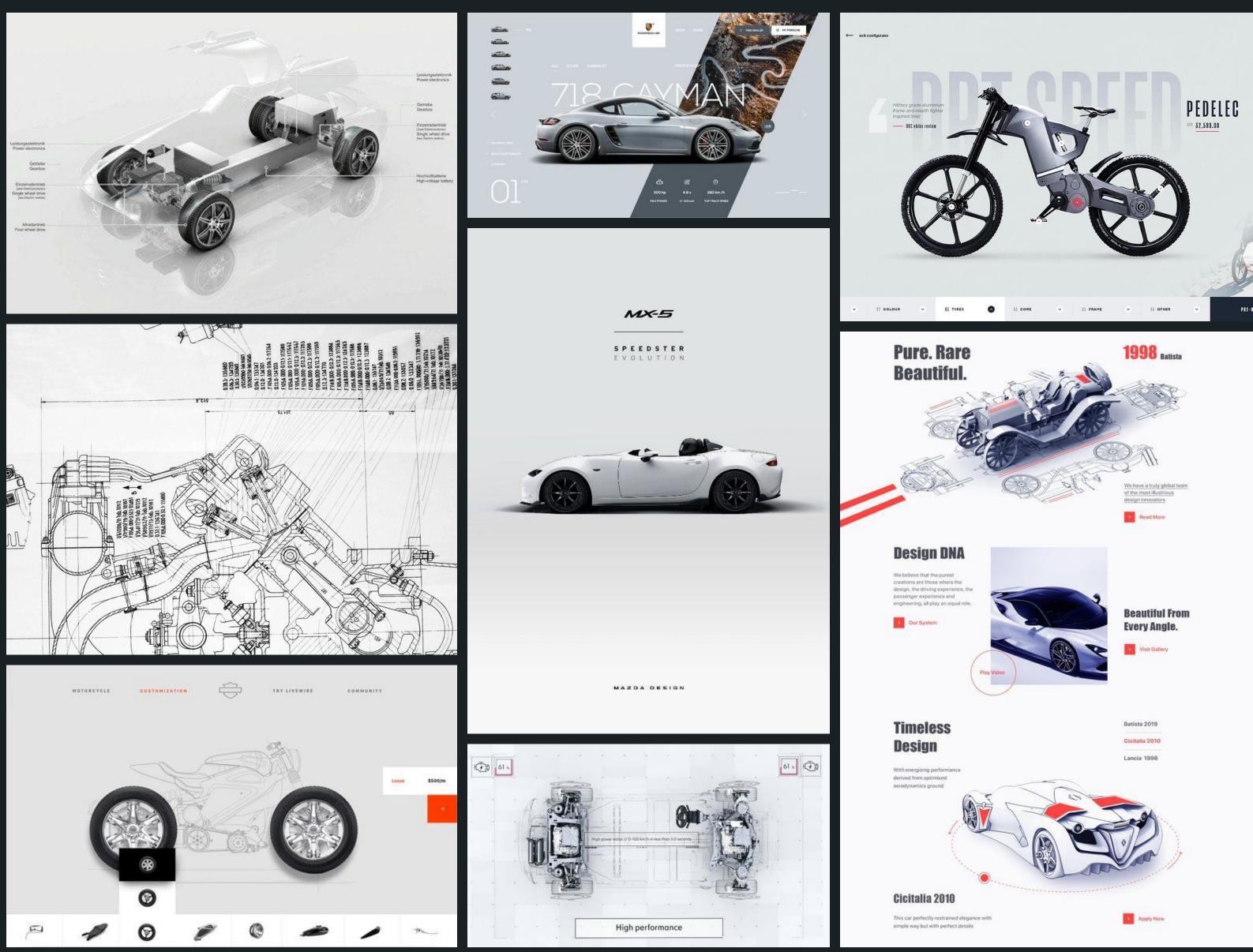


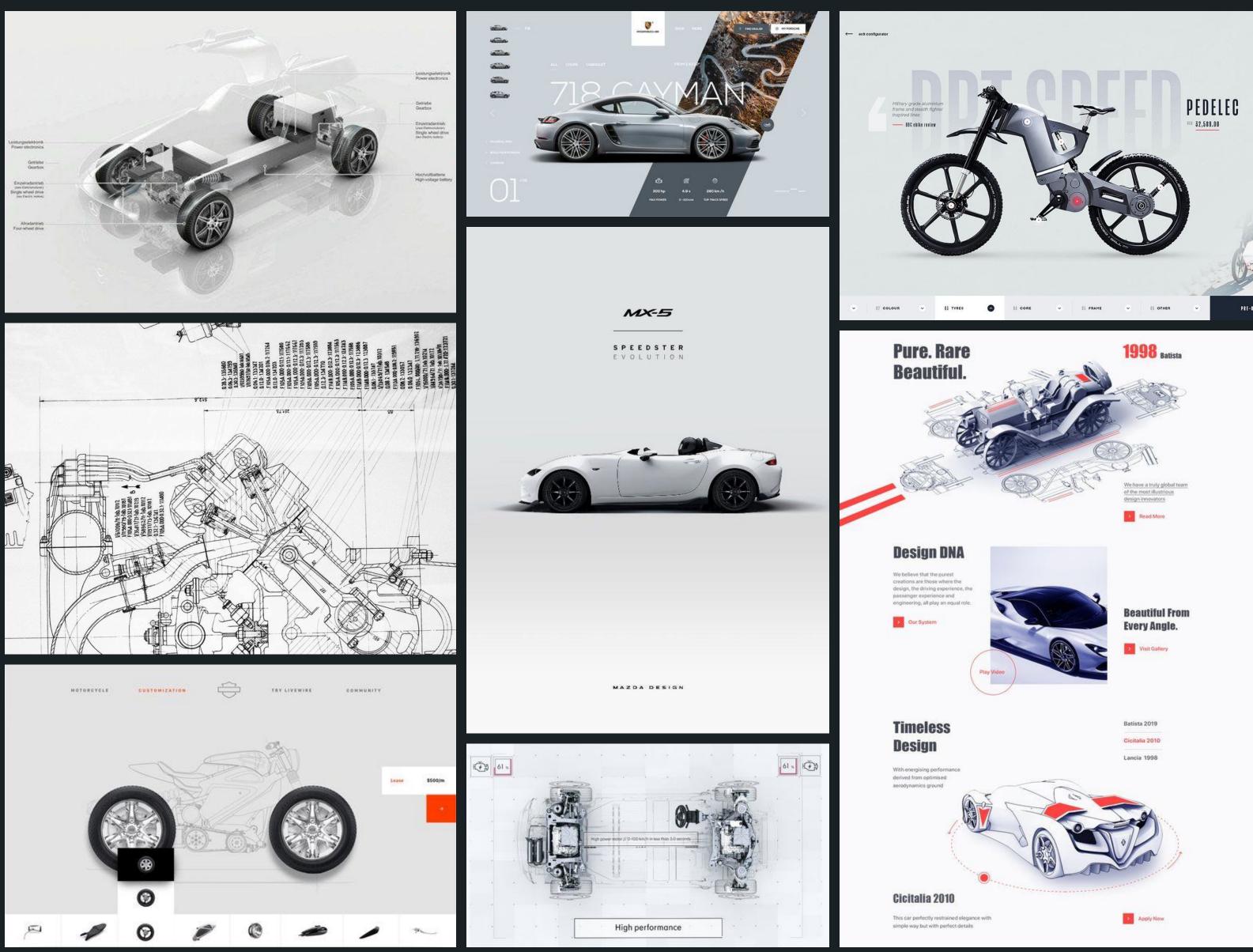


III - DESIGN PROCESS Moodboard 2: Pen and Paper

Juxtaposing flat, blueprint-esque illustration against realistic 3D models creates visual intrigue in a negative space-heavy layout.

keywords: clean, light, minimalist





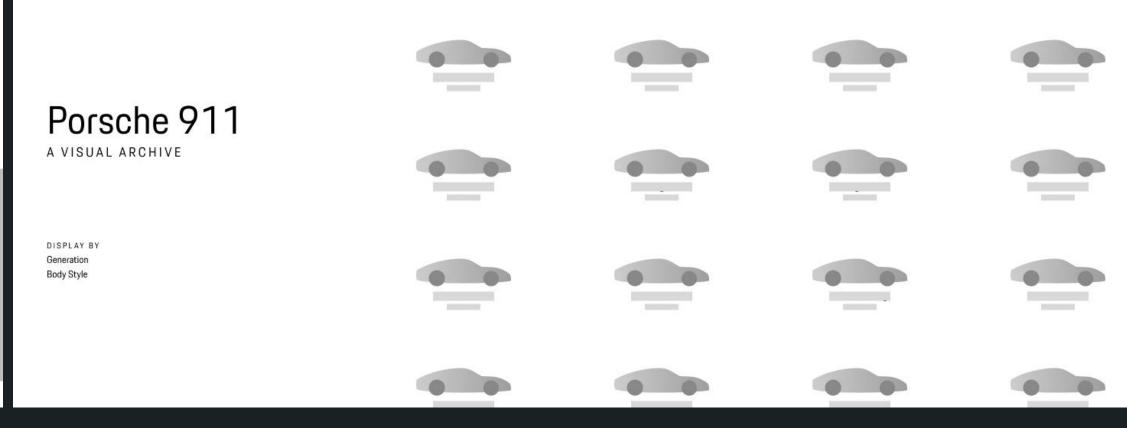
III - DESIGN PROCESS Wireframes 1/2

Porsche 911

VISUAL ARCHIVE

IDLE SCREEN: plays while not in use; animated to attract attention

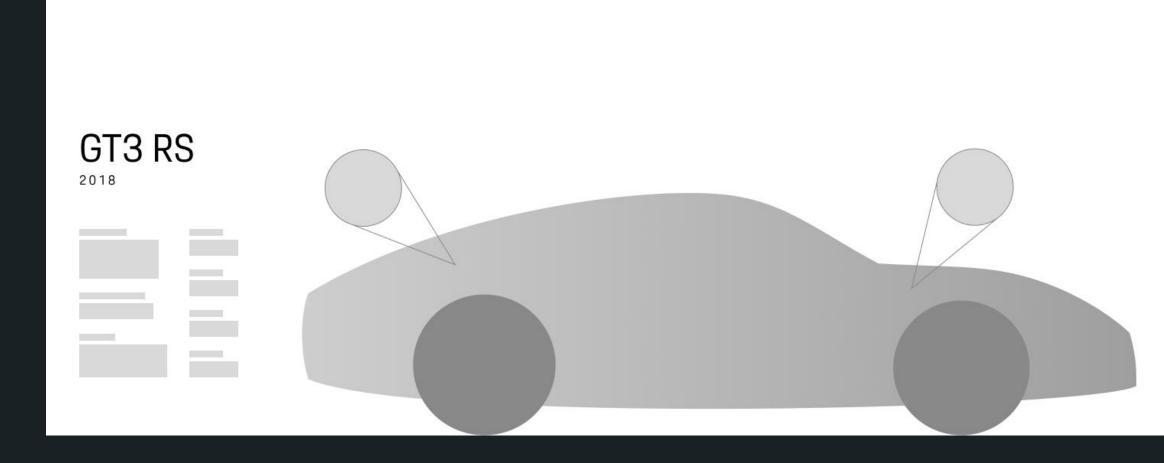
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VIEW ALL: view more variants at once in chronological format



III - DESIGN PROCESS Wireframes 2/2



VARIANT SCREEN: shows stats and other information about the variant

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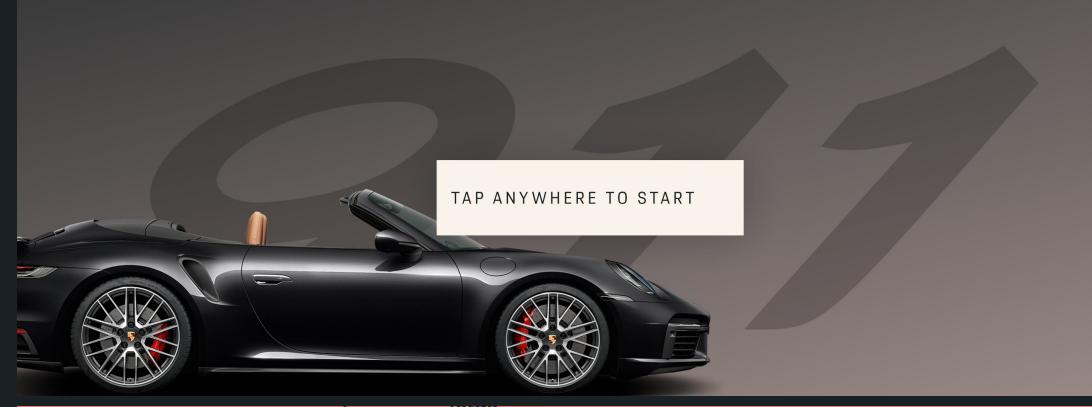


INSPECT SCREEN: after clicking on a part, overlay appears (3D modeled)



III - DESIGN PROCESS Visual Composition 1 1/2

- generally very weak but a good start into designing a practical layout
- began implementing timeline feature
- unsure about navigation onboarding
- uninteresting story text layout (very blocky)



larga 2017

2022

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SCROLL ZOOM out to view more variants TAP any variant to get a closer look



The biggest wing yet – and more downforce than eve

ribes the process: "I don't remember any project y ore days and nights – countless hours – inside the unnel. It offers such a rewarding driving experience on the trac t puts a smile on my face, and on all o too, every time we drive it."



III - DESIGN PROCESS Visual Composition 1 2/2

- minimalist background emphasizes the car itself/creates a center of attention
- began developing mood dichotomy for variant screen and inspect screen through color and value contrast
- still had placeholders for stats

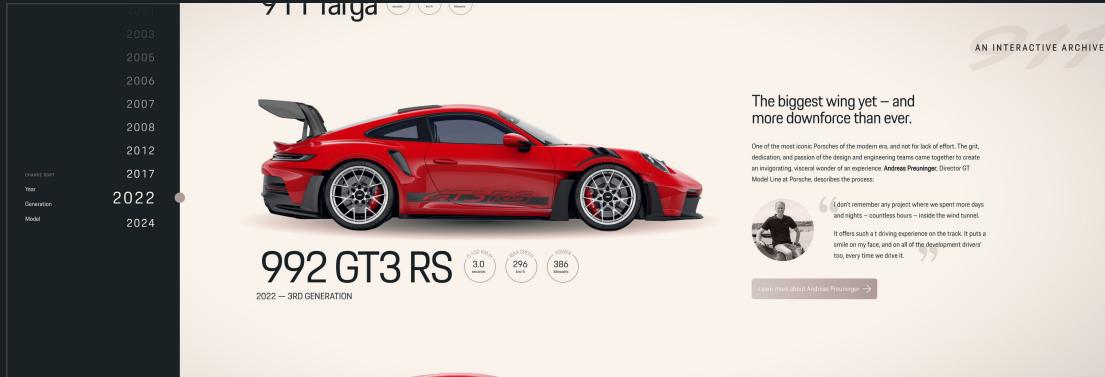






III - DESIGN PROCESS Visual Composition 2

- removed most of the red
- moved timeline and grouping selector to a distinct side menu
- added body copy and statistics on story and variant screens
- implemented first version of 3D model in the inspect screen (it was also at this point where I decide to descope and only use the 3D model on the inspect screen)









III - DESIGN PROCESS Visual Composition 3 1/2

- more descriptive idle screen
- revamped the menu: grouping selector is hidden by default, but can be accessed by swiping right on the menu
- separated story screen text into distinct sections: "The Car" and "The Body"
- created a secondary story screen

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772 Janera 2008 2012 2017 2022 2024 992 Targa 4 (4.2) (179) (379)

772 Talya 4

AN INTERACTIVE ARCHIVE

- THE CAR

Top down, heads up.

roof system and, just like the legendary original Targa model from 1965, it features a characteristic wide roll hoop, a movable roof section above the from eats and a wraparound rear window

THE STORY

cause it was released during the COVID-1 ndemic, the 8th generation Targa 4 was the firs variant to premiere entirely online. Nevertheless. D Sebastian Rudolph, Head of Communicati Porsche, took the changes in stride



Digital and classic formats are just tw sides of the same coin.

AN INTERACTIVE ARCHIVE

- THE CAR

The biggest wing yet – and more downforce than ever.

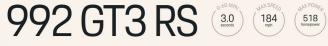
One of the most iconic Porsches of the modern era, and not for lack of effort. The grit dedication, and passion of the design and engineering teams came togeth n invigorating, visceral wonder of an experienc

- THE STORY

Andreas Preuninger, Director GT Model Line at Porsche, describes the proces

It offers such a t driving experience on the track. It puts a smile on my face, and on all of the development drivers' too, every time we drive it.







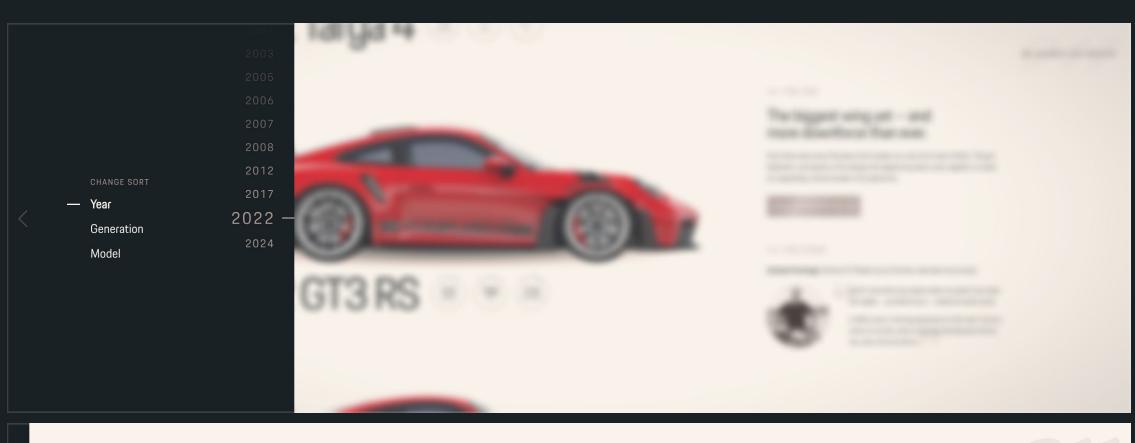






III - DESIGN PROCESS Visual Composition 3 2/2

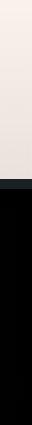
- revamped menu: opened version
- implemented backwards navigation on variant screen
- implemented more complete 3D model in the inspect screen, added more visual elements for intrigue



AN INTERACTIVE ARCHIV











SECTION IV

Final Design

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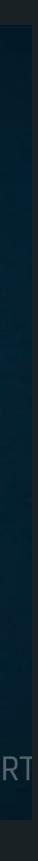




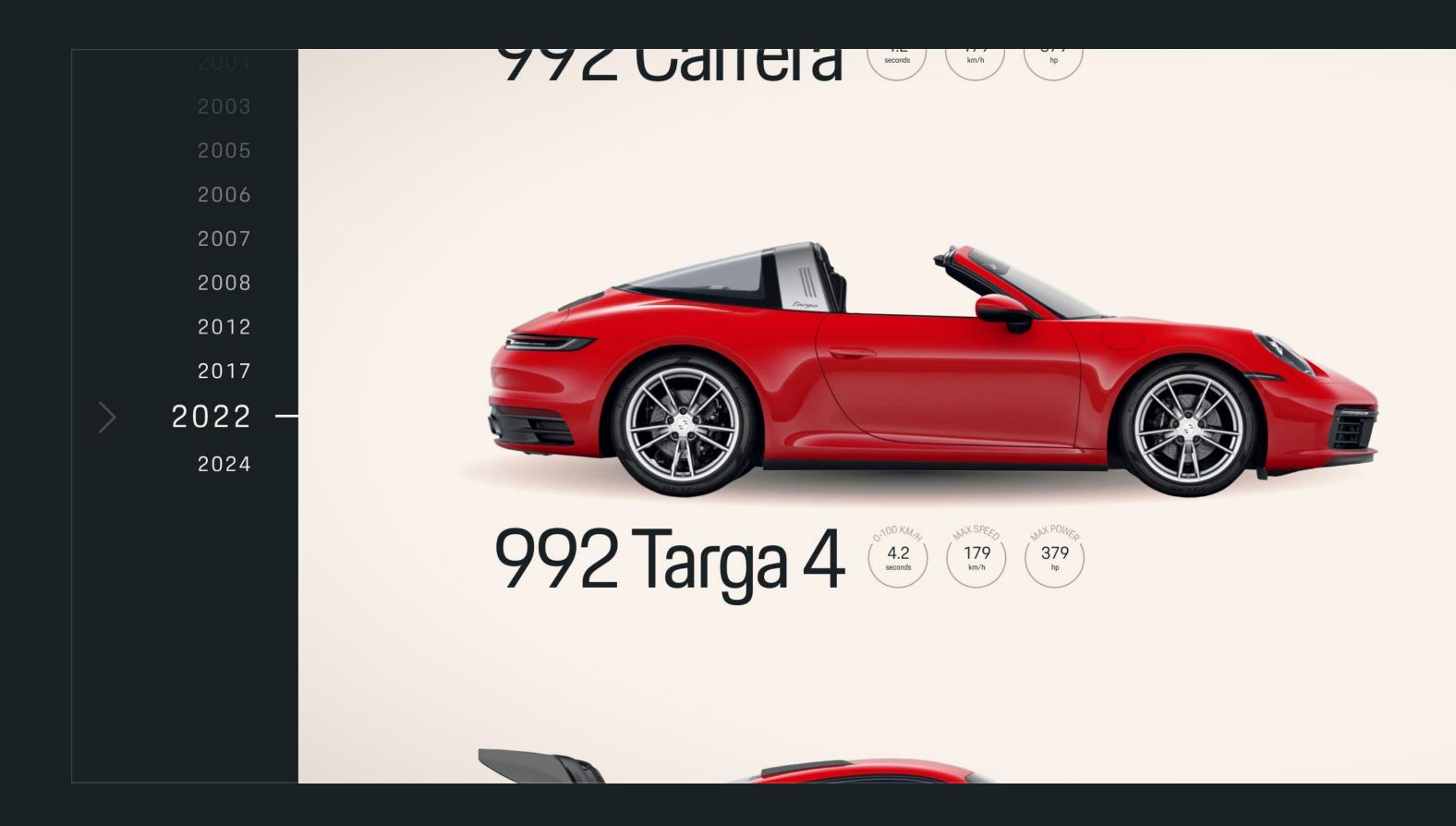
IV - FINAL DESIGN Idle Screen

AN INTERACTIVE ARCHIVE FROM 1964 - 2024 ANYWHERE TO START — TAP ANYWHERE TO START

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IV - FINAL DESIGN Story Screen 1



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- THE CAR

Top down, heads up.

The distinguishing feature of the Targa remains its innovative, fully automatic roof system and, just like the legendary original Targa model from 1965, it features a characteristic wide roll hoop, a movable roof section above the front seats and a wraparound rear window.

Explore the 2022 Targa 4

- THE STORY

Because it was released during the COVID-19 pandemic, the 8th generation Targa 4 was the first variant to premiere entirely online. Nevertheless, Dr. Sebastian Rudolph, Head of Communications at Porsche, took the changes in stride:

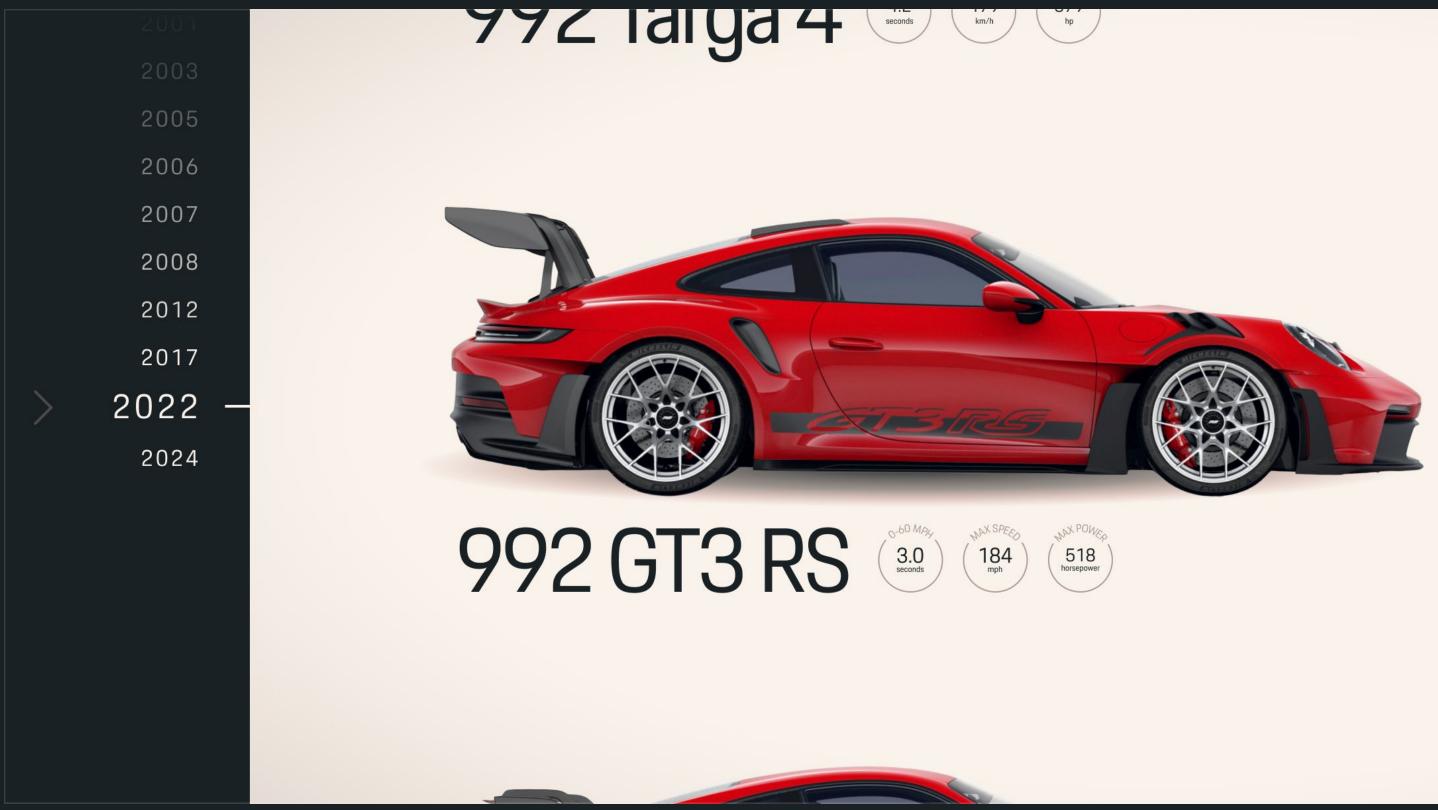
Digital and classic formats are just two sides of the same coin.







IV - FINAL DESIGN Story Screen 2



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AN INTERACTIVE ARCHIVE



The biggest wing yet – and more downforce than ever.

One of the most iconic Porsches of the modern era, and not for lack of effort. The grit, dedication, and passion of the design and engineering teams came together to create an invigorating, visceral wonder of an experience.

— THE STORY

Andreas Preuninger, Director GT Model Line at Porsche, describes the process:



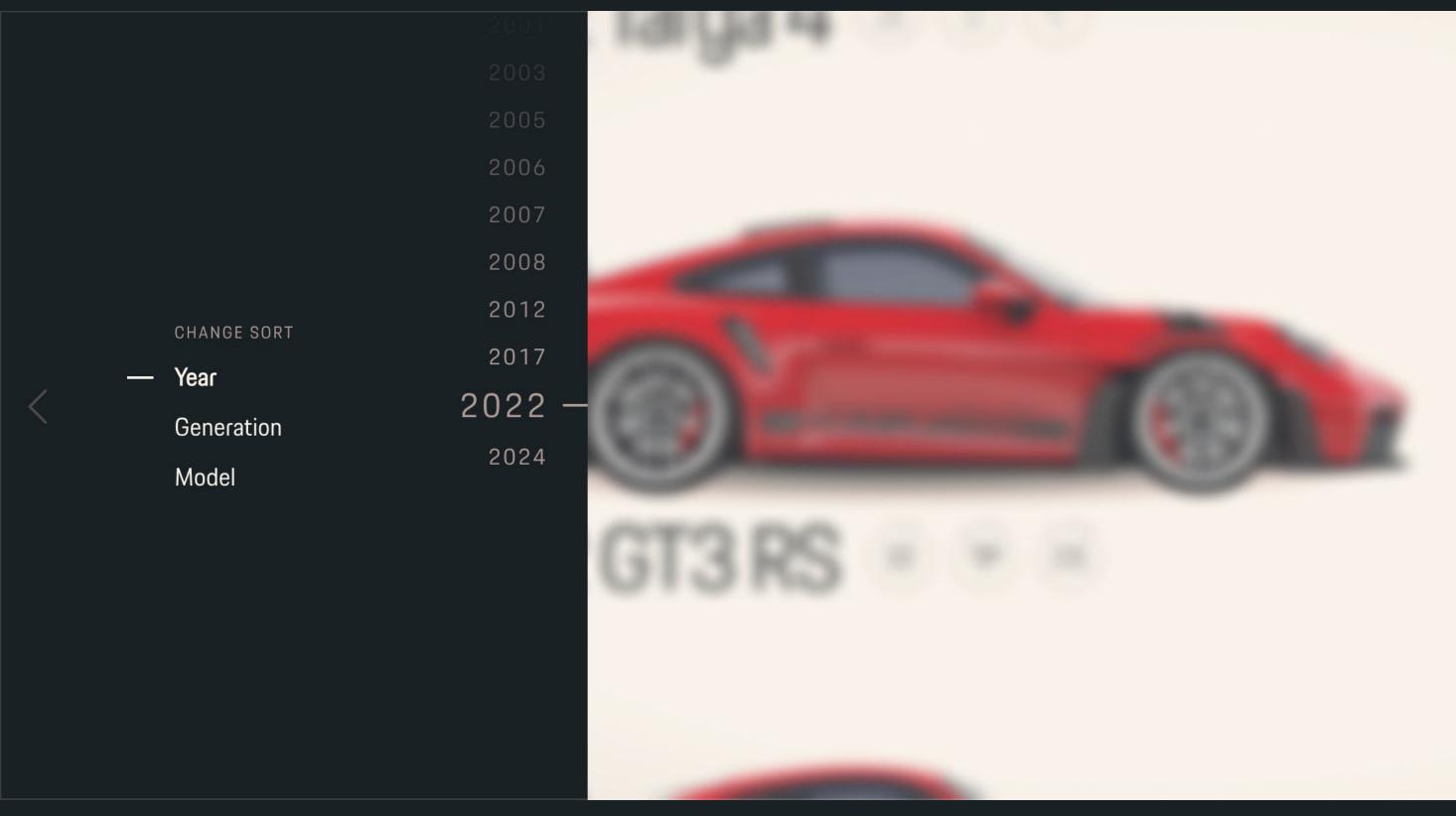
I don't remember any project where we spent more days and nights - countless hours - inside the wind tunnel.

It offers such a t driving experience on the track. It puts a smile on my face, and on all of the development drivers' too, every time we drive it. 🧷





IV - FINAL DESIGN Menu









IV - FINAL DESIGN Variant Screen



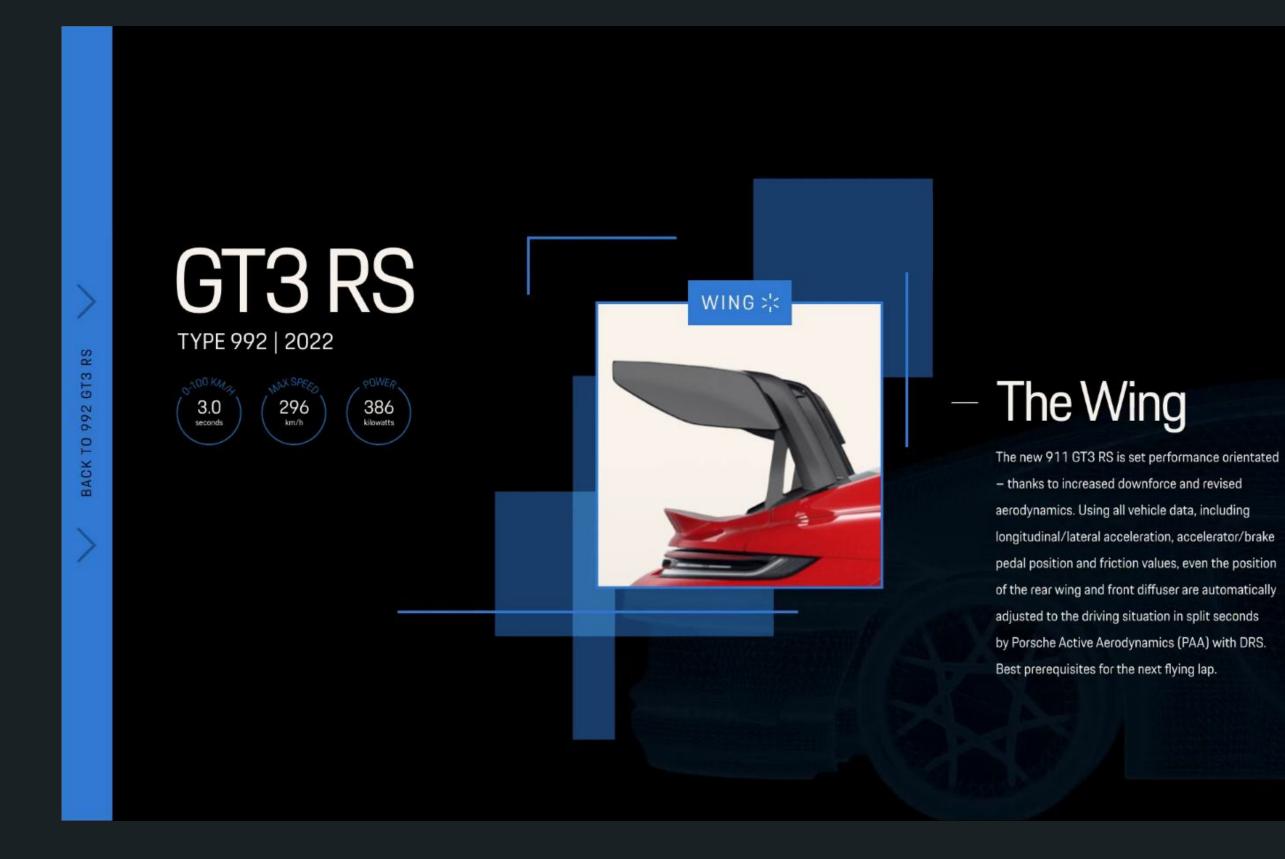
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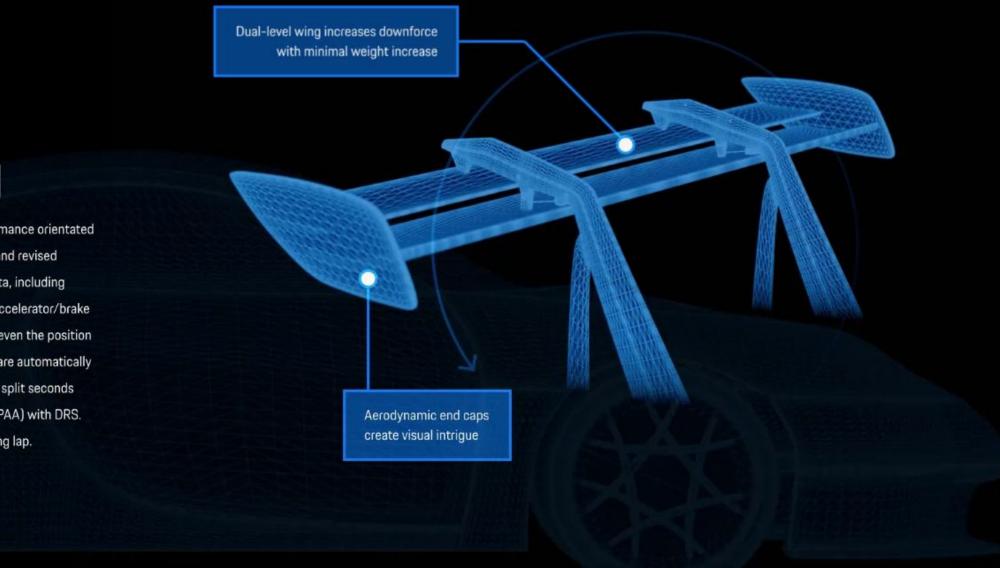
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IV - FINAL DESIGN







IV - FINAL DESIGN Animated Prototype

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Watch the animated prototype <u>here</u>!



SECTION V

Conclusion

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v - conclusion Takeaways

3D modeling is a lot of work.

As such, this was one of my first large projects that, despite the affordable timeline, required heavy descoping. I had intended to 3D model every car that was featured, but the steep learning curve of Blender (a completely new software for me) forced a significant change in plans.

Still, I'm proud of the 3D that I did complete; especially, the material (with a thousand mix shaders) was a feat.



V - CONCLUSION Resources

- all photos, videos, facts, quotes, and font are owned by Porsche
 - photos from Porsche car configurator
 - video 1, video 2, video 3
- 3D model is original (made with Blender)



Thanks for reading!

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