

# BRIEF BREAKDOWN

S71VIŁ S7VIKO7AOM

This Brief asks for the project to follow a stylised workflow and to create a Sci-Fi inspired charcarcter themed after either a Sheriff or an Outlaw. It stipulates a nice and high poly count of 65k to 100k tris but this can be stipulated upon the 3D artstyle chosen by the artist.



This project doesn't only ask us to sculpt our characters but also to apply some kind of design theory to it, whether it be finding a concept and then applying some original inspiration to it or to completley create a new design from scratch using traditional or unique techniques like photo basing.

STYLE

The brief asks for a PBR Stylised art style but stylised is extremley broad in its definition. it could be anything from flat vibrant colours like in most Blizzard titles, to cel shaders like in Marvel rivals or Pokemon it could also feature the Hand Painted likes of Dota and League of legends.





The Sheriff and Outlaw character classifications allow for a pretty broad scope, especially in coming up with the designs especially since being either, depends on the genre and over arching power structure the character belongs to. Sheriffs are supposed to be a Pinnacle stature in any law enforcement Agency, meanwhile Outlaws are the nemesis of such people because they go against everything that the law enforcement structure stands for. With that in mind you can immediately begin drawing distinctions between the two. For example, In the Star wars franchise, Jedi go from being figures of great respect, lorded as peace keepers to the citizens of he galaxy. However once the jedi order fell, and a new power structure was introduced, they all became the very people they would be sent to pacify, outlaws and traitors to the new regime. Some of the Clone commanders also followed the same path of being a wartime law enforcement, to becoming rogue traitors hunted by the people that made them obsolete.

George Horwood - H019223L

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The Project is supposed to be based on an NPC character found in a Sci-fi game specifically an open world game which means that the environment that theyre found in will matter too. The diorama should add to the sculpt in its world creating aspect.

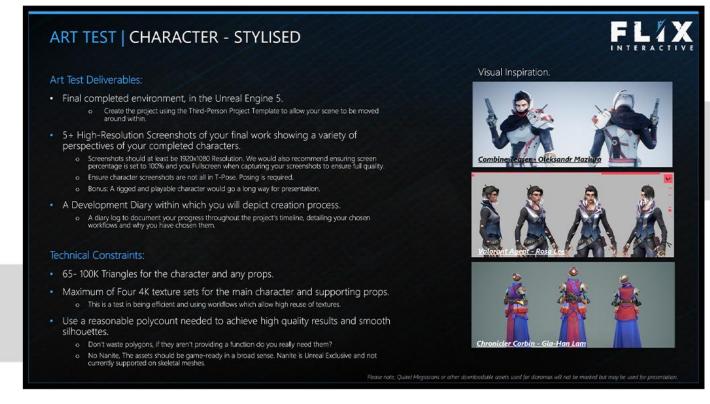
DJAMMYH 170W

### PRESENTATION

As far as deliverables go its quite specific, A final presented artefact inside of Unreal engine 5, 5 high res screenshots of our work showing a variety of perspectives for our character as well as a development diary. Use of auto rigging software is permitted but Having a Pose is required.

NK771√KYVI

#### NARRITAVE



This project should be showing some kind of narritave through the character design, either in sculpting or in texturing. Some kind of subtle design theory should be utilised. an example would be how the clothing is presented, is it fresh off the line kind of like the empire in star wars, or is it a bit roughed up and worn out like the rebellion, does it have mismatched peices or is it a cohesive look. If its a biomechanical character, does how neat or rough are they, are the biomechanical enhancements as a result of an injury, if so be sure to show some kind of damage to add to it, is it neat and clean as if its an elective enhancement allowing people to infer the characters wealth or something along those lines, things like that will help tell a story through design elevating it to a level akin with the characters made by AAA level companies.

### CHOOSING A STYLE "IEDDANIVID K AMAANI



Star Wars Hunters is a free-to-play mobile game, designed around an online arena combat, hero shooter. set in the STar wars universe, players will take on the personas of different characters ranging from a droid with a jedi attire, to an ewok in a miniature AT-ST walker (as seen in the movies). it has a variety of locals for which they all will battle in and utilises a stylised workflow. as far as technical parameters go it is likley that the final game ready characters will have around 40k-80k tiangles to ensure fidelity in animation as well as maintaing optimization for performance on a mobile device or Switch console.

Regarding its texture style they utilise a Lot of vibrant colours to emulate this playful toon like style most of these characters are based off of real characters found within the franchise but colour theory is definitley used in the character design process.













LIVE BRIEF **03** George Horwood - H019223L

### CHOOSING A STYLE "IEDDANIVID K AMAANI



Marvel rivals is a free-to-play stylised 6v6 hero shooter based on the marvel comics IP. it uses characters found within both cinematic releases, and from the depths of the comic franchise to create an enlightening hero shooter that allows for gamers of all ages to play as their favourite champion hero or villain to achieve victory and rise through Galactas ranks. As far as designs go, they utilise both comic accurate and original design methods when generating these characters. These characters have around 50k-60k triangles in each depending on the kind of character theyre creating.

The texturing choices used by this game stick to the comic accurate themes using vibrant hues and colours all compiled together with various cel shaders.













# STYLE RESEARCH



The Art style of: Star Wars Hunters, is one of a stylised realism approach. It blends realistic anatomical proportions with exaggerated features for a cartoonish look.

It uses Vibrant and High contrast colours for bold and an enhanced level of visual clarity. The character silhouettes are strong and bold, the actual models utilise a use of smooth clean cut surfaces, simplified details and an overall clean and cartoonish aesthetic.

The diverse cast features a plethora of emboldened features depending on the species they identify, the likes of the wookie and the ewok utilised large visual hair clumping all over their bodies to indicate that aspect of their species. the sith character utilises a Lot of cohesive shape design with the red and black suit, comprising of both regular cloth pieces and some light armour in places to indicate a readiness for battle, the workflows follows a simple PBR stylised approach but with hand painted influences in places too.



# SHERIFF V OUTLAW

KEVI771EN Y DUVJKON

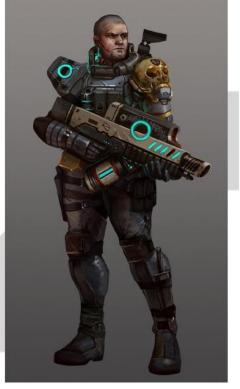




When we think of sheriffs the very Typical response is an Old Western character that wears a hat and some kind of navy blue coat, however if we were to break it down a little a sheriff is someone who upholds the law and order for their constituants since they are an elected position. As such their outfits can be varied depending on their location of employment.

SHERIFFS

The project theme is all about finding a new way to interpret the role of Sheriffs and Outlaws. Sheriffs will have characteristics that an outlaw might not and vice versa, as such visually speaking each role will incorporate different elements to showcase, where one may walts around with weapons out in the open the other will wear it concealed etc.





When we think of an outlaw, its very similar in that we think of a western character, maybe an old cowboy or something, however if we were to look at the term outlaw more broadly, they can be assigned to anyone who breaks the law of thier home environment. a criminal essentialy but with more brovado, more oomf.



#### SHERIFF V DUTLAW **ΚΞVI771Ł**Ν Υ ΔU√√ΚΟΝ

An Outlaw stereotypically is seen as a cowboy like Arthur morgan and his gang. However if we look at it for its definition its just someone who has broken the law and llives outside the line. A line that is entirley metaphorical and created by whatever government makes the laws of the land. as such an outlaw could also be a rebel in a broken system.

On this side, outlaws with very little morality, New republic empire, crime syndicates, non guild Bounty hunters.





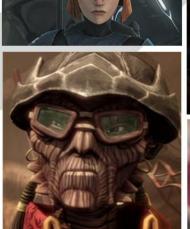


















On this side, high morality outlaws, rebels or robin hood esk characters, stealing from the evil to give to the poor/ needy type tropes.













### SHERIFF V OUTLAW **ΚΞVI771Ł**Ν Υ ΔU√√ΚΟΝ

Sheriffs in Sci-Fi specifically in Star wars are a little bit difficult to come up with since the setting is quite literally the entire galaxy, but we dont typically follow the people upholding the law, only the ones fighting greater evil.

On this side, sheriffs with an evil and vindictive persona abusing their powers to get what they desire.





























On this side, high morality Sheriff/ lawman individuals that are definitely worthy of their titles.



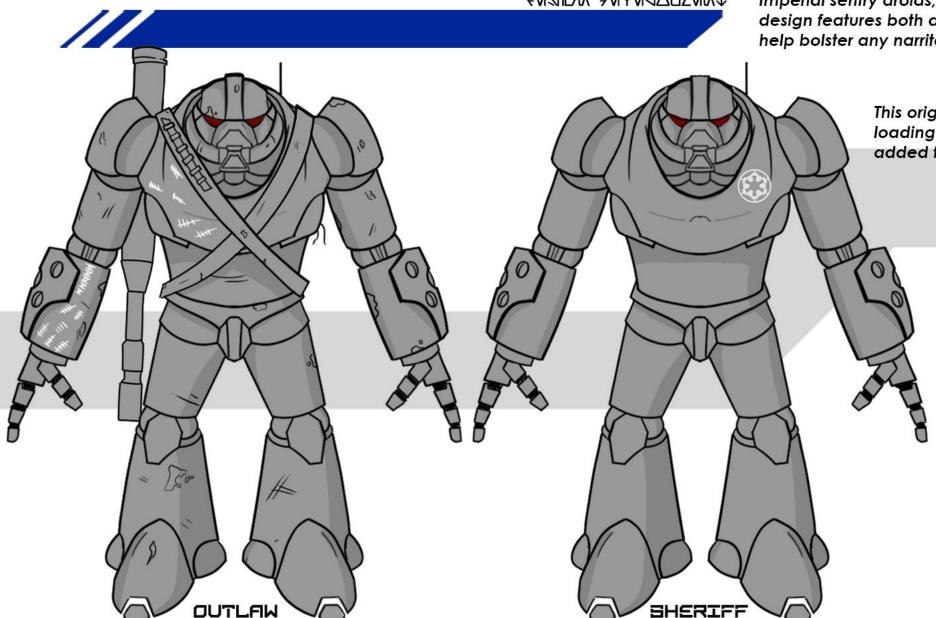






ENIMINA SALANIANA

These Initial concepts combine the Strong silhouettes of the republic commando clone troopers, with the subtle nods to the Imperial sentry droids, and the Space marine body shape. the design features both a sheriff design and an outlaw design to help bolster any narritave i might be able to make.



This original Concept is to emulate a heavy loading lifting droid but with an imperial sting added to it.

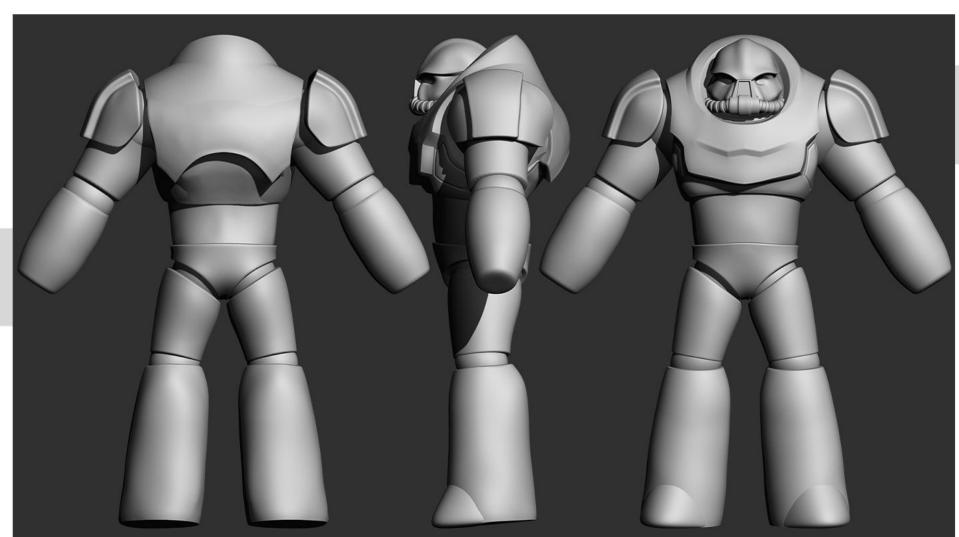
> The design fits the brief quite well, however it involves intricacies that are fairly out of scope for an 8 week development cycle.

> The idea of having a character that blends into both the sheriff and outlaw category works more in my favour, I will attempt a blockout first in z brush just to see if im doubting my skills before I officially write it off.

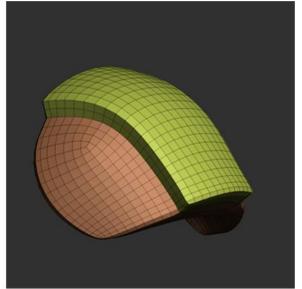
LIVE BRIEF 10 George Horwood - H019223L

EMMIDIO ANTANATIONA

These initial blockouts aim to help me to build up an idea of how difficult the actual character would be to make. Sections of these have had some buffing to them to make them look accurate compared to concept however i am still having trouble with getting the head shape right which is a major selling point of the character design.



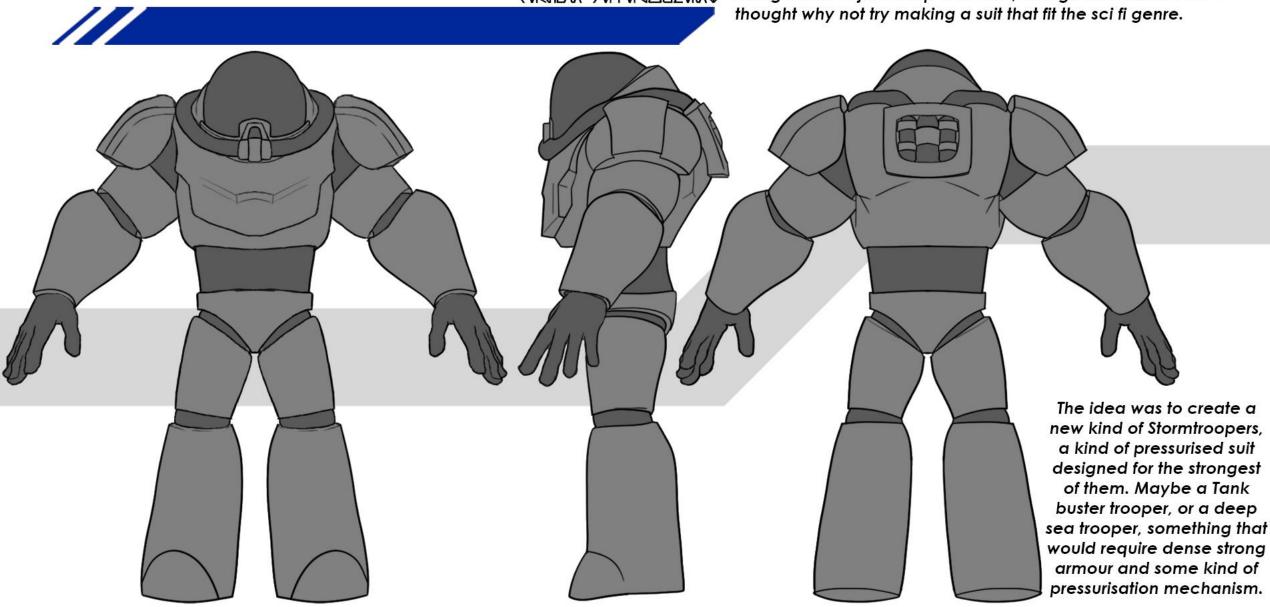
I have found that in the creation of the Character, a lot of hardsurface will be required, a skill of which i am not particularly versed, other than the creation of subtle peices. however to tackle the problem i have beein using a combination of roughly sculpted meshes, extracting and polygrouping them to create a much cleaner set of geometry then using z moddeller in place like the shoulder pads to give them the accurate secondary forms.



# DESTAN DEVELOPMENT I decided to go back to the drawing board so to speak, and try again at creating a character I thought would work. My initial

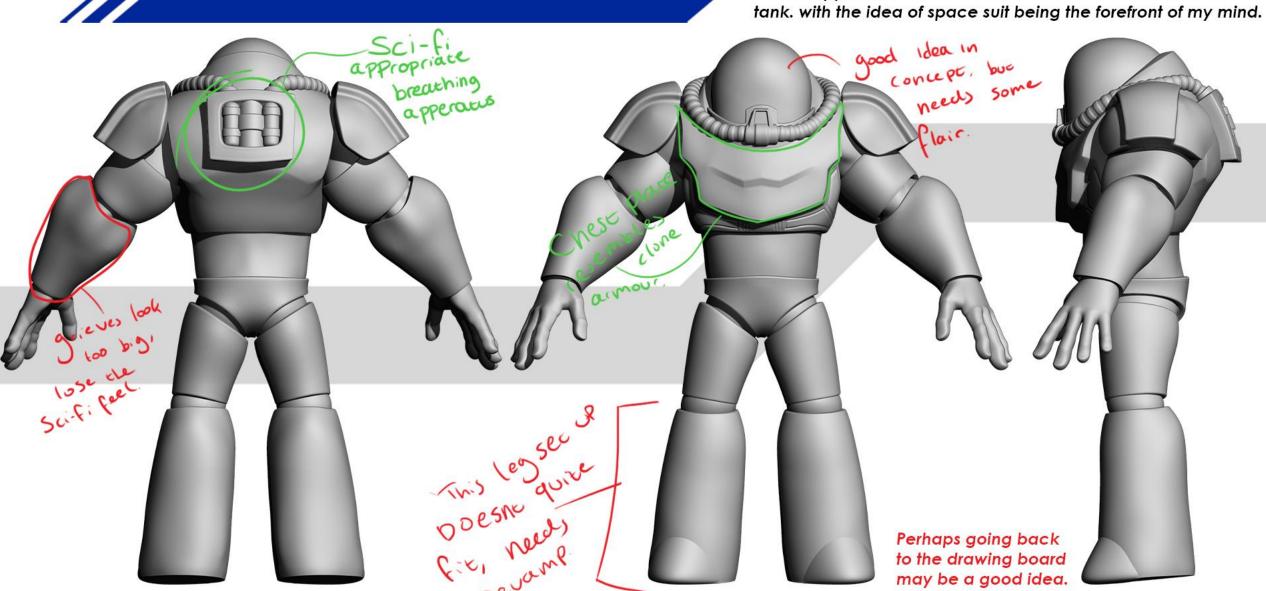
**ENIMITON ANTANATION** 

thought was to just scrap the head, and go human but then I



FAININA SALAMATOTICANA

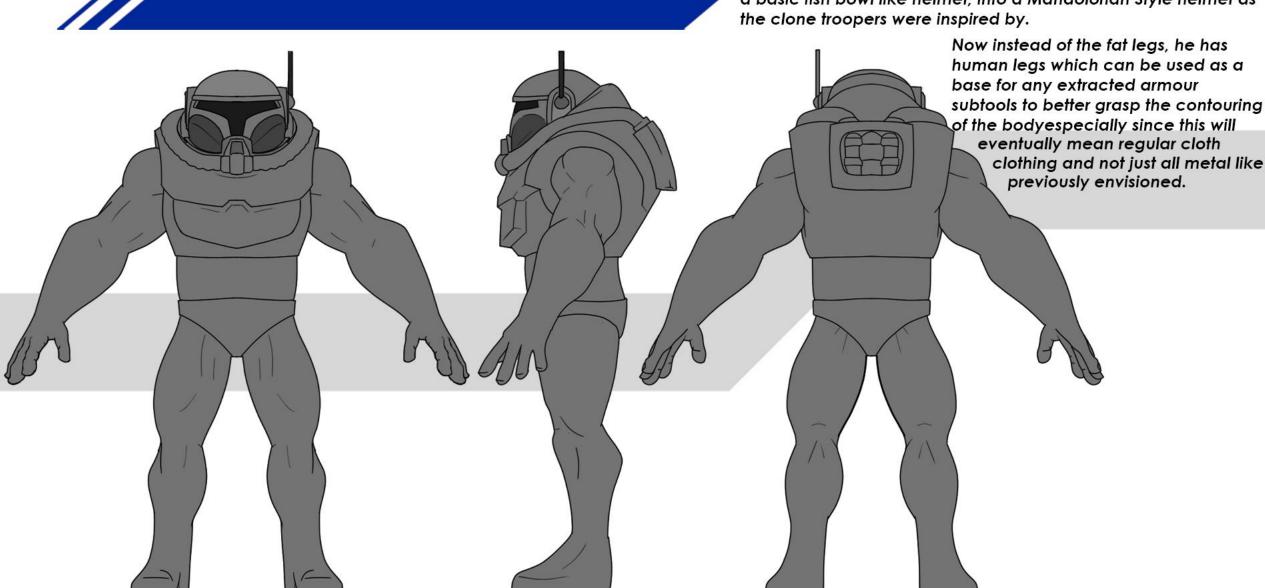
An updated version of the model, according to previous concept. it features the same pipe breathing tube like ensamble only this time placed further forward, enlarged, and then wrapped round to the rear to become a makeshift o2 tank. with the idea of space suit being the forefront of my mind.



# DESTAN DEVELOPMENT This is the final base draw over i will be doing before full on development begins, I wanted to find a way to better inffus

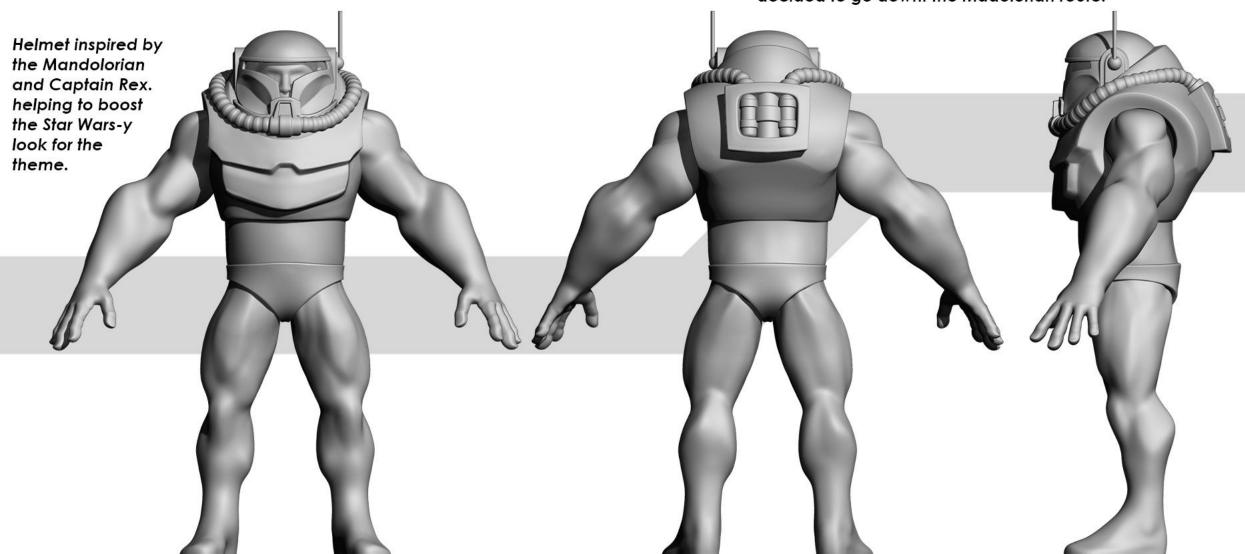
ENIZITA SALANIADFIENIA

This is the final base draw over i will be doing before full on development begins, I wanted to find a way to better inffuse Star wars Hunters into this project so i decided to turn the head from a basic fish bowl like helmet, into a Mandolorian Style helmet as the clone troopers were inspired by.



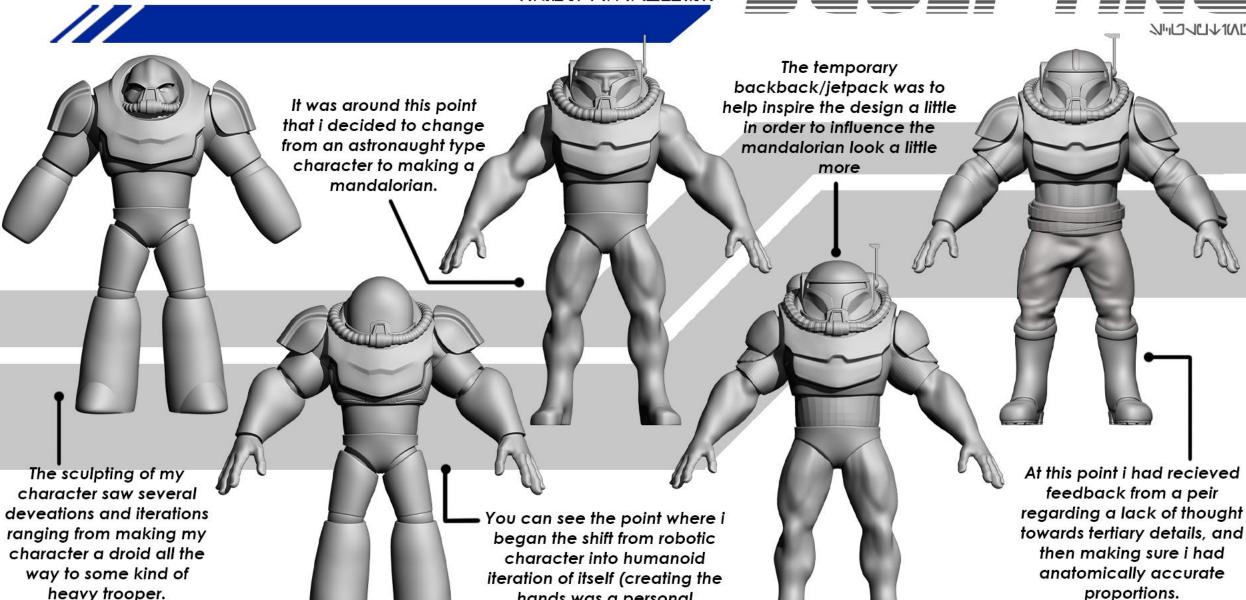
FM7117W AMJATITAMA

I decided to go back and re do the concept sketch this time accounting for armour changes. I got rid of the armour on the arms and replaced the legs with actual legs but made sure to fill and flatten the feet to create a boot like shape for later on, when I sculpt shoes for the character. It was at this point that i decided to go downt the Madolorian route.



LIVE BRIEF 15

SCULPTING



hands was a personal achievment for me.)

heavy trooper.

**ENIMITON ANTANATION** 

Mandalorians first appeared on the cinema screen through the character Boba fett played by Jeremey Bulloch, then replaced in 2002 my Temuera Morrison in the 2nd installment of the prequel trilogy, since then the sci fi religion was more recently depicted through animation, and live action in the form of Katie Sackhoff, John Faveru, and Pedro Pascal.

























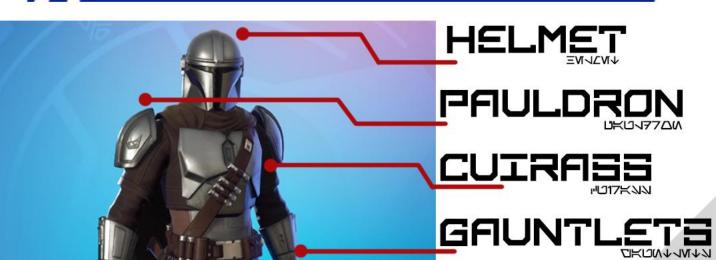




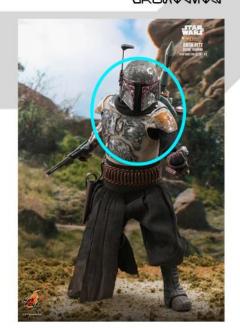


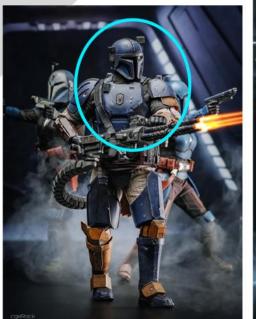
ENIMINA SALANATORNA

No two armours are exactly alike amongst those walking the way of the Mando'lor However they do all share one or two similarities. one of which being the layout of their armour peices. This breakdown should help to identify the most crucial elements to making a mandolorian.



These are all key identifying features of a mandalorian and its armour set, with the main focus being the upper torso, head and wrist accutremants. No two armours are alike, however its always the same focul points helmet, cuirass, pauldrons and Gauntlets







George Horwood - H019223L



by the 'Mid Point' The shrinking of the review stage of the helmet was to help project: better sell the look of a mandalorian since all the helmets I could find were almost identical in their size and silhouette.

> Its clear some thought had been given as regards to the more personal features of the character, with a heavy focus on two important features: the Helmet and the Jetpack.

There are some obvious changes required, as well as the less obvious ones. For starters the ganutlets need some seeing to because right now theyre still blockouts.

Also, boots need to see some love because whils the previous iterations were okay, they were too complex, instead ill vy for a more simple take on them. and finally, mandaloriands are meant to be 'living arsenals' yet I see no indication of weapons or storage.

This is the point I was at

DESIGN DEVELOPMENT HIGH POLY

As you can see there have been some VAST improvements in sections in the final high poly.

The A symmetry in the wrist launcher/blaster, and the greive layout being one metal the other some kind of soft material like leather. helps to sell the outlaw as stipulated in the brief.

knee blasters and various ammo poches help sell the mandalorian motif of a walking Arsenal

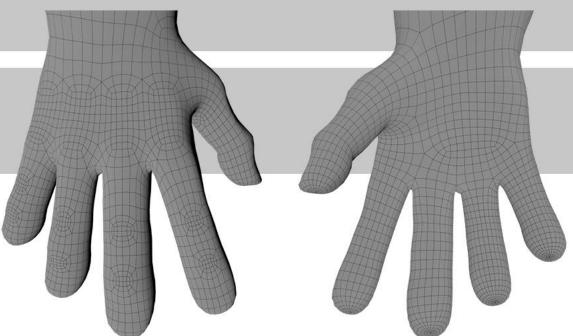
The armour sees a nice clean cut, sharp updating that sells the idea of beskar steel (metal used to make mandalorian armour). This took several attempts in which I took a sculpted peice, back and forth between 3ds max to create that clean look.

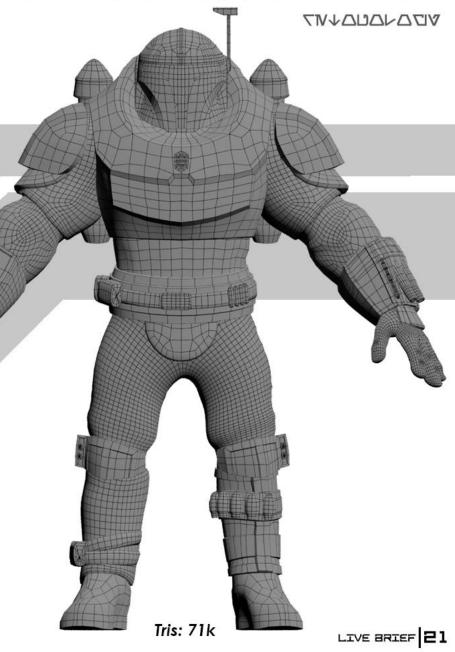
LIVE BRIEF **20** 

# DESIGN DEVELOPMENT RETOPOLOGY

The total re-top budget for the Low poly was a total of 65k-100k tris. This kind of budget allows for more 'leeway' around the areas with intricate topological concerns like creases and animation loops. This also means that animations can be more dynamic thanks to the generous topology.

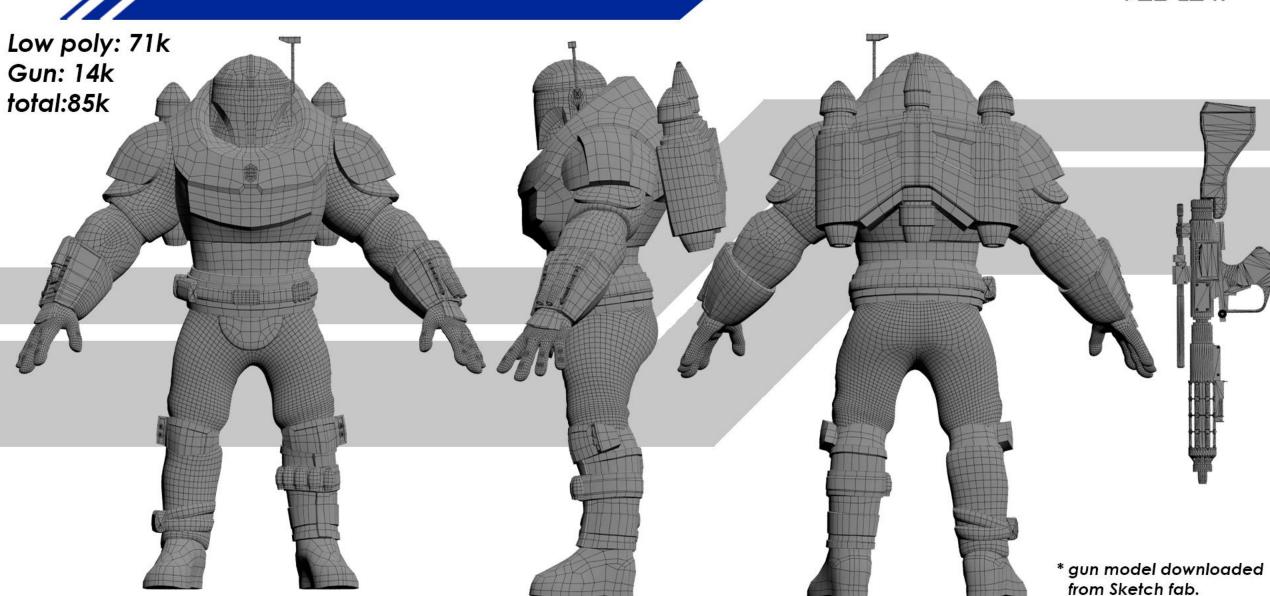
Also for this brief we are limited to 4, 4k texture sheets. However, I don't think just 4 sheets would be enough for this project, as such i will be adding a sheet to account for the possibility of weapons to be added to it. this means some creative mathematics may be required. i.e 1 x 4k is equal to 4 x 2k maps





# LOW POLY

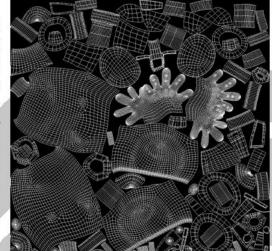
VAO UAVV





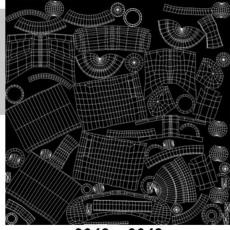
DAD MENINTA

I decided to split my low poly into 5 sheets. 2 of which are 4k the rest at 2K since realistically they require less texel density since they are not the main focus of the project. Since a Mandalorian is most identified by its helmet and wrist weaponry I thought these would need the most focus on them and as such could best utilise more UV space for details.

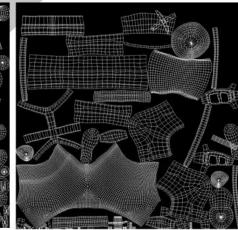


4096 x 4096 **Arms and Gauntlets** 

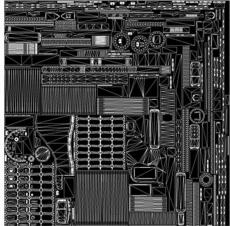
4096 x 4096 **Helmet & Torso** 



2048 x 2048 Pouches and Jetpack



2048 x 2048 Legs, feet & Knee rockets



2048 x 2048 Gun

FAINIDA SAIJAINOTORIA



スクススストンドル

Before I begin ANY kind of texturing of my Mandalourian I first have to conduct some light research. I need to know things like: Does the style of helmet dictate the colour use, what do the differing colours mean? and do I need to start building a back story for my character?

#### Helmet styles:

The helmet style i chose for my Mandalorian is that of the Din Djarin style, a strong and clean cut looking helmet, this however DOESNT mean anything regarding the colour requirements, it does however give me something to think about regarding colourway availabilities and placements. As you can see, the colours differe no matter the helmet style, however some features allow for more complex colour variations. Some colourways feature decals and designs on top of the base beskar design, this would lean more to the complete and utter uniqueness of every helmet variation.











# Mandalorian Colourways & their meanings:

As you can see, the colours worn by a mandalorian all have a meaning. The Black worn by the likes of Death wtach (in the clone wars animated series) backs this because they all believe that theyre fighting the government to bring back Mandalorian Justice. The red worn by the Maul-ites (death watch loyal to darth maul) is worn by the mandalorians who are 'honoring' the death of their brothers (who switched factions) and also honoring Maul's brother killed by palpatine. As you can see the meanings behind the colours matter as such, creating a backtory will help.





#### **MANDALORIAN ARMOR COLORS AND THEIR MEANING** BLACK Justice Honoring a RED Parent or Loved One **BLUE** Reliability **GREEN** Dutv YELLOW Vengeance (Gold) Beginnings / **ORANGE** A Lust for Life

George Horwood - H019223L

# DESIGN DEVELOPMENT TEXTURING

 $\sqrt{V}\Delta\sqrt{U}71\Lambda U$ 

NAME: RAH VORN

TKA YA7W

ALIAS: THE IRON EMBER

**ΨΞVI ΙΖΔΙΛΙΝΖΞVI7** 

Born on the moon of Concordia, Rax grew up as a foundling of the watch right up until the day of the imperial purge of mandalore or as it is coloqueally known as:

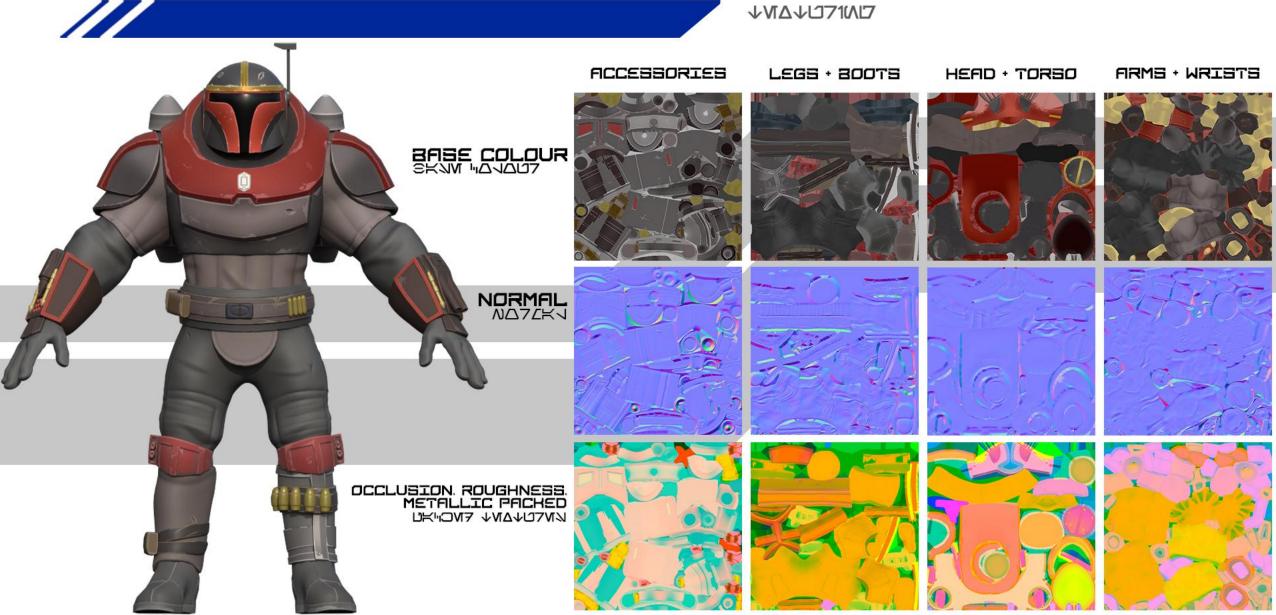
'A night of a thousand tears.' when his conclave were forced into exile during Moff Gideons pursuit of Real Beskar for his new imperial science project Since that day, Rax

adorned the red and gold of his new beskar armour to honour his brothers and sisters killed in the purge and vowed

vengeance and to pursue justice against all imperial remnants no matter the cost, To Himself, to others, to the world around him. so long as the empire suffered nothing stood in his way.



# DESIGN DEVELOPMENT TEXTURING



#### DESIGN DEVELOPMENT ENINTRY ANTANATION



When creating the poses I had a lot of back and forth not just between softwares (although that was something) but also what kind of Dynamic poses I should be creating for references i looked at a variety of sources ranging from the ones of Return of the jedi, the mandalorian and Book of Boba fett, but also from the Animated series' which whilst dynamic would have more exaggerated poses thanks to the limitless nature that an Animated show may allow in its













### REFLECTION てんドイスティング

This live brief required the creation of a stylised sci-fi outlaw or sheriff character, utilising a standard PBR (physically based rendering) workflow commonly used in Stylised game art pipelines. The brief referenced Games such as Star Wars: Hunters (Zynga, 2023) and Marvel Rivals (NetEase Games, 2024) as art style choices. I chose to base my design heavily on Both The Star Wars Pantheon as a whole and Star Wars: Hunters in particular since they both Heavily.

The project allowed for a further developent of skills in sculpting that had not been fully realised before as well as, retopology, baking, and texturing within a stylised 3D workflow. One of the key challenges encountered was during the sculpting phase, particularly in developing the helmet and armour. Achieving clean, stylised forms that retained character identity proved time-consuming, requiring multiple iterations and back and forths between zbrush, and 3ds Max to ensure proper armour fidelity throughout the project.

Another significant issue arose during the texturing stage. It became difficult to create a coherent material and colour composition between the: hard-surface armour, the organic components of the character, and the surrounding clothing, ammunition and other accutrements. The initial approach used only four material sets for the character with a 5th used for the weapon, however perhaps fully utilising all budgeted texture sets would have been more appropriate given the way that the materials textures and appearances differ on chracters like 'ARAN TAL' who also don the beskar armour (star wars hunters). Ultimatley this limited my ability to control texture detail and contrast across different areas of the model. Negatively impacting the overall readability and surface variation.

However, Despite this issue it became a useful learning opportunity. Upon reflection, I recognised that a more effective strategy would have involved creating additional material sets to help with breaking down the ar, our into not only its reflectiveness but also its design as a whole.

In future projects, a plan going forward would be to spend less time worrying and leapfrogging between the kind of concept this project will approach and instead, picking one, sticking to it and breaking it down a little more so that these time wastaged can be better avoided. One of the highlights of this project would have to be the way the dynamic poses translated into the unreal project, and subsequently the final renders, they show fidelity through out and a clear understanding of showcasing a story through a single image.







