



Ministry of Education and Training FPT University

Oops

Capstone Project Presentation

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Members:

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Supervisor: Tran Anh Khoa

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Our Team

We are a group of students who are passionate about cinema, especially cartoon. Each member has their own specific pros and cons. In this project, we harmonize these differences to create a unique colorful movie.



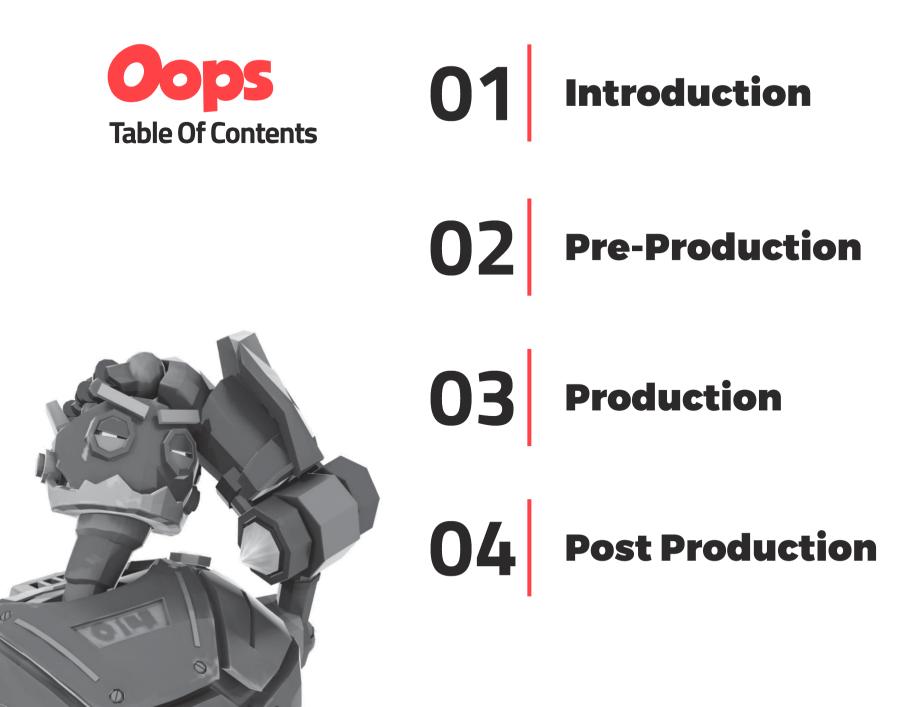
Hoang Le Son



Nguyen Manh Phat



Luu Vinh Quang



Problem **Definition**

• Name of Project: "Oops!"

- "Oops!" in English as well as "Úi", "Ôi", "Oái" in Vietnamese is a sound blurted when we get surprised or startled as we accidentally drop something or suddenly realise we have forgotten something.
- "Oops!" is also a short onomatopoeia, which is easy to pronounce and remember.

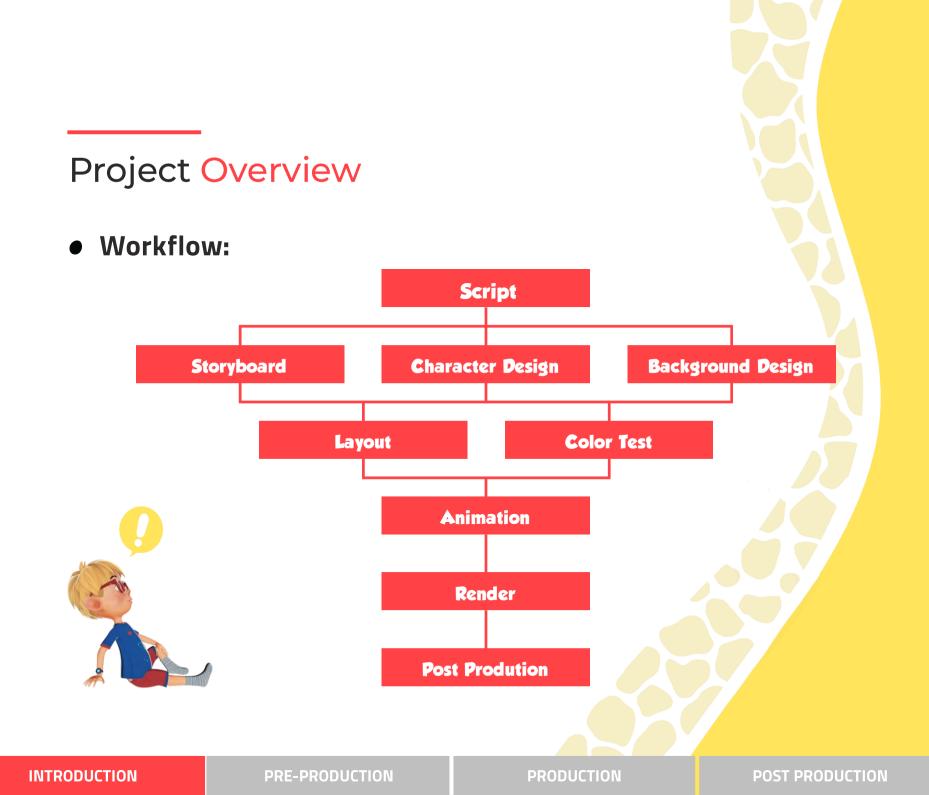
Problem **Definition**

• Problem Abstraction:

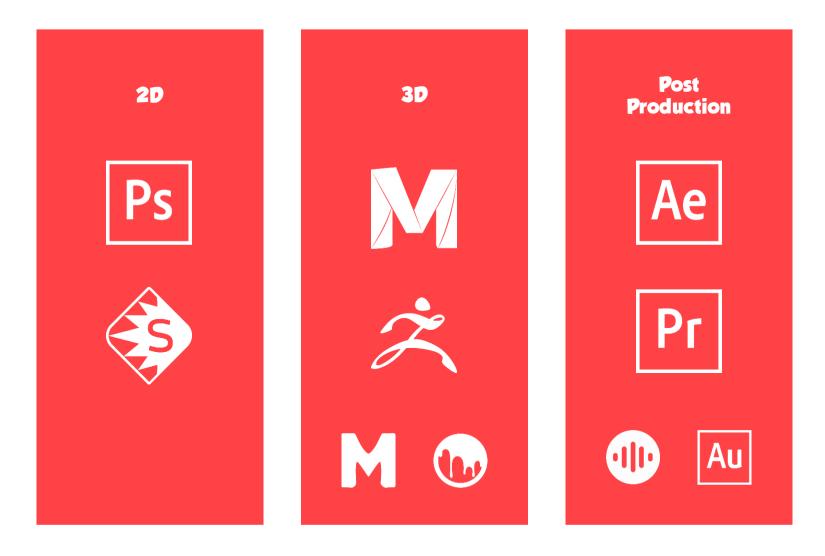
Nowadays, kids have the chances to access many technology products while playspaces become less in quantity and more crowded. The "press press", "poke poke" kinds of stuff provide more entertaining options but limit the kids' imagination in their smartphones or tablets. The current happiness is available things, which do not cost any afford to create their own games and playspaces. Project Overview

• Idea:

- There are 3 keywords that we insist to emphasise: "Kids", "Toys" and "Imagination"
- "What do the kids have in their worldview?"



• Tools of Development:



INTRODUCTION

PRE-PRODUCTION

PRODUCTION

Script

This is a story about Jack and the adventure in his fantasy world.



INTRODUCTION

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Layout 2D: House

Storyboard & Layout

In the dull morning atmosphere, the clock took each moment heavily. The light from the window illuminated the framed commendations on the wall.









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PRE-PRODUCTION

PRODUCTION

Jack was struggling with his breakfast when his mom cleaned up the house before going to work. No longer did his mom leave for work than he rushed into his room.





















INTRODUCTION

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Layout 2D: Desert





That the door disappeared brought Jack to a vast desert of his fantasy world. His adventure began.



Right when he got there, he recognized that his toy, Moemo, was being bullied by an enormous robot. The robot was raising his gun toward Moemo.

PRE-PRODUCTION







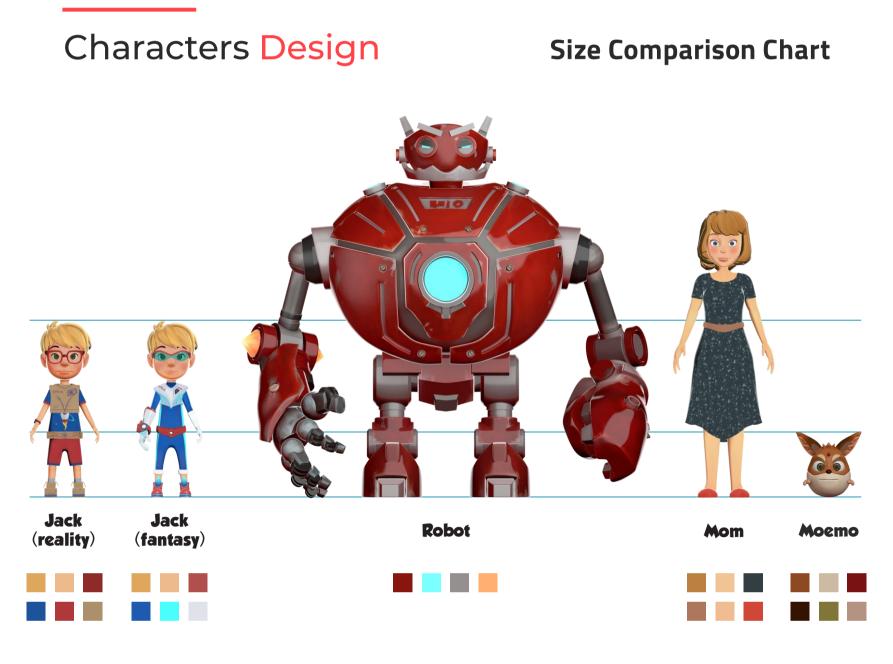


Both felt fortunate for escaping successfully. They ran swiftly through the purple jungle and slipped off the towering hill.

Layout 2D: Forest

PRE-PRODUCTION

PRODUCTION



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PRE-PRODUCTION

PRODUCTION



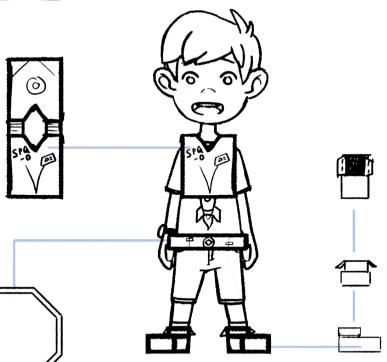
Jack is a playful and adventurous kid. Though, he has to get rid of himself to meet the demand of his family such as education, marks, achievements, etc. The only moment he has a chance to be himself is when his mom leaves him home alone to go for work.



2D concept

Reality mode

Carton armor: A stuff is invented when his mom is not home. It is hidden in the wardrobe. In the fantasy world, it appears to be a luxury armor.



Armor: It is composed of imaginary components. The power flowing inside it not only interacts with the Jack's spirit but provides energy to his gloves and combat boots also.

Combat boots: It can speed up when moving and use the energy from the armor to produce extremely high jumps.

Fantasy mode

Gloves: They use the spiritual energy from the armor, which is released by the character's spirit.

PRE-PRODUCTION

PRODUCTION

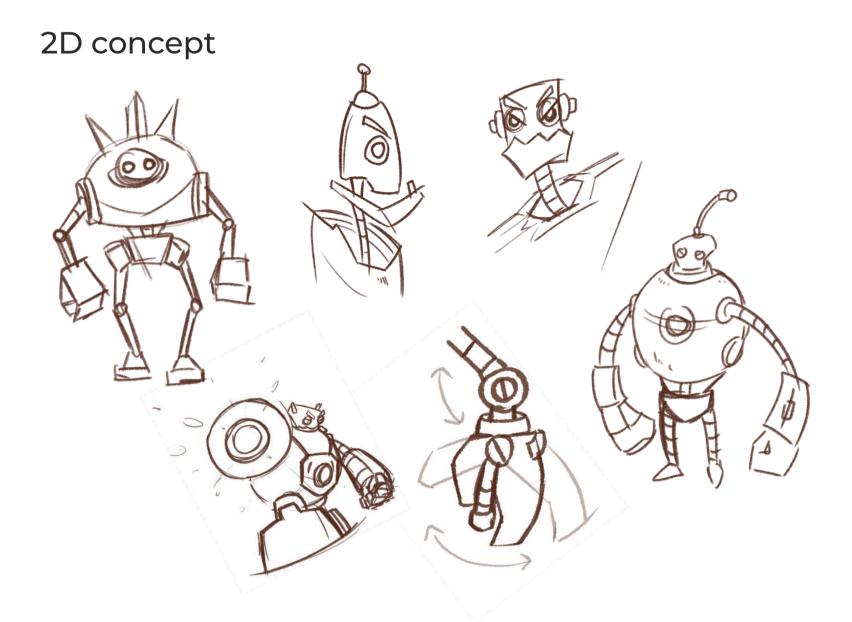


PRE-PRODUCTION

PRODUCTION

ROBOT

The robot is actually a toy of the boy, which represents the evil side in his fantasy world. Its nature is dangerous and envious. When its sly was taken away, the robot chased the boy by all means just to revenge him.



PRE-PRODUCTION

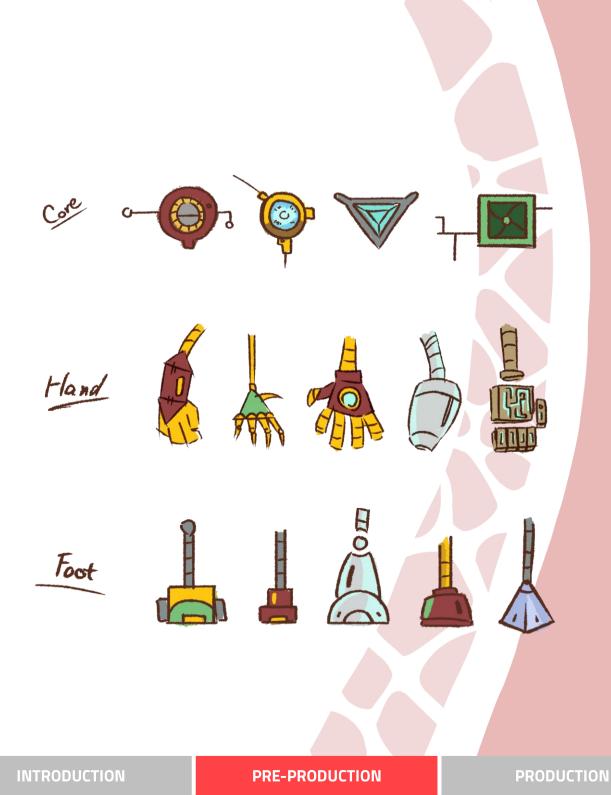
2D concept





PRE-PRODUCTION

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Power source: It is rooted from the extreme energy source so that it can work tirelessly.

Right arm: After the other hand was cut, the power is concentrated on his right arm. That makes it extraordinarily powerful.

Left arm: It was cut in a battle then fixed to be a gun-hand which is able to shoot powerful blue ray.



Moemo is another toy of the boy then becomes a character in his adven-ture. Although its body looks tiny and weak, it has a strong willpower. In the emergency, the tiny creature is willing to protect its master without hesitate.

3D modeling



INTRODUCTION

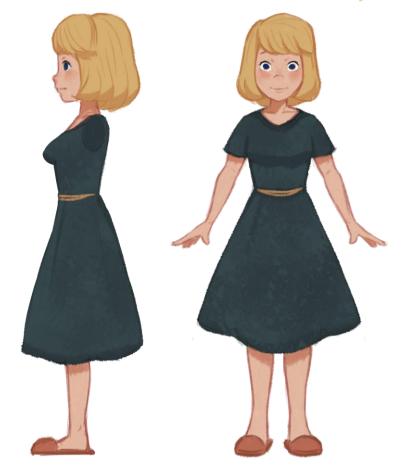
PRE-PRODUCTION

PRODUCTION



2D concept

Jack's mom loves him and has many expectations for her child. Although they are all the best wishes for the boy, his mom's expectations are not what he truly wants in life.





3D modeling



PRE-PRODUCTION

PRODUCTION

55 Animators can only draw from their own experiences of pain and shock and emotions.

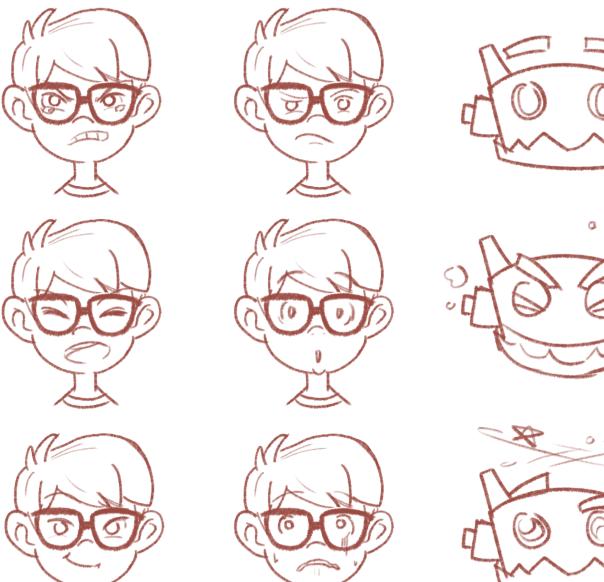
- Hayao Miyazaki -

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• Facial Expressions





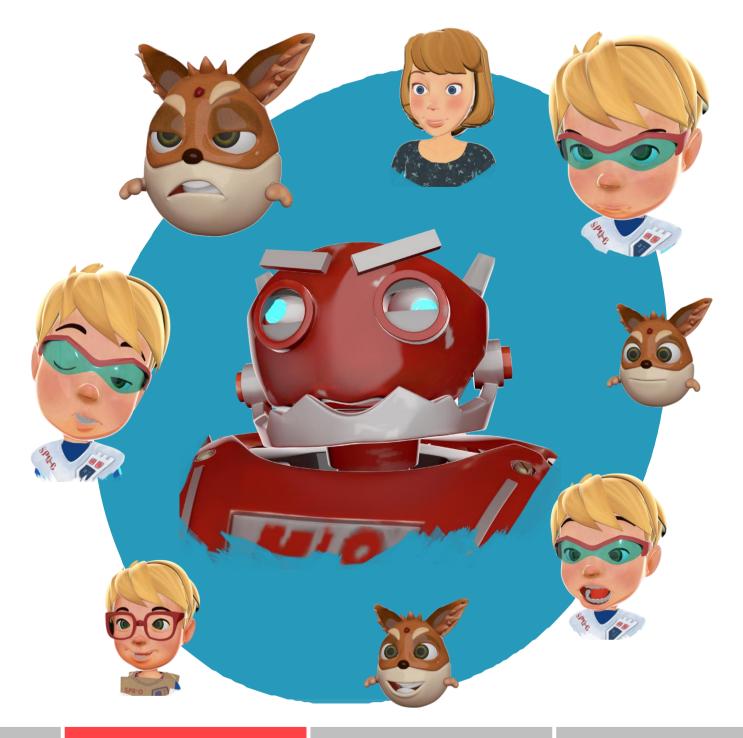


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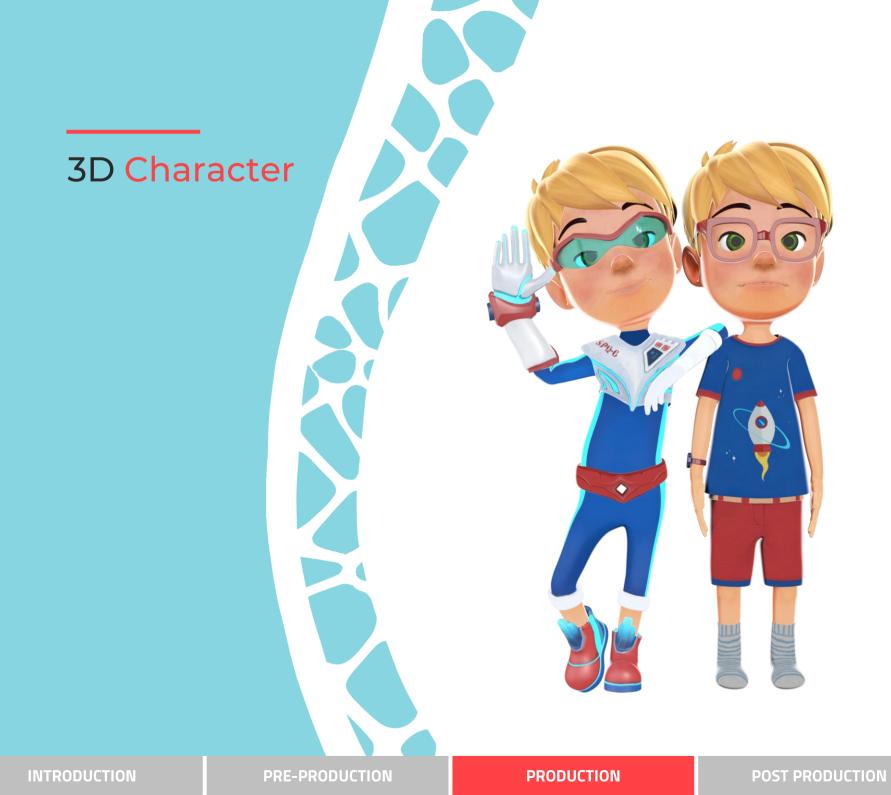
PRODUCTION

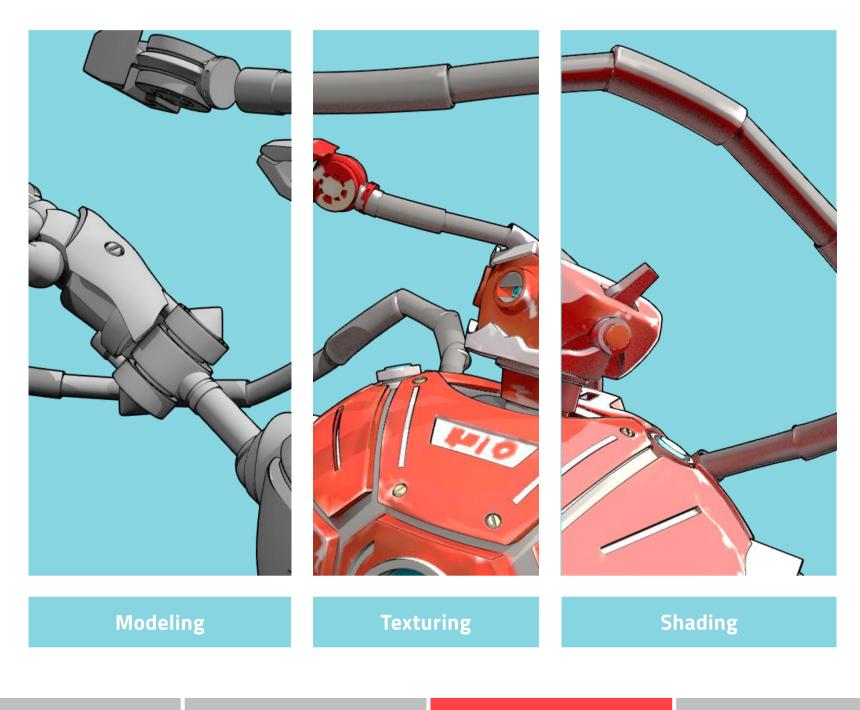


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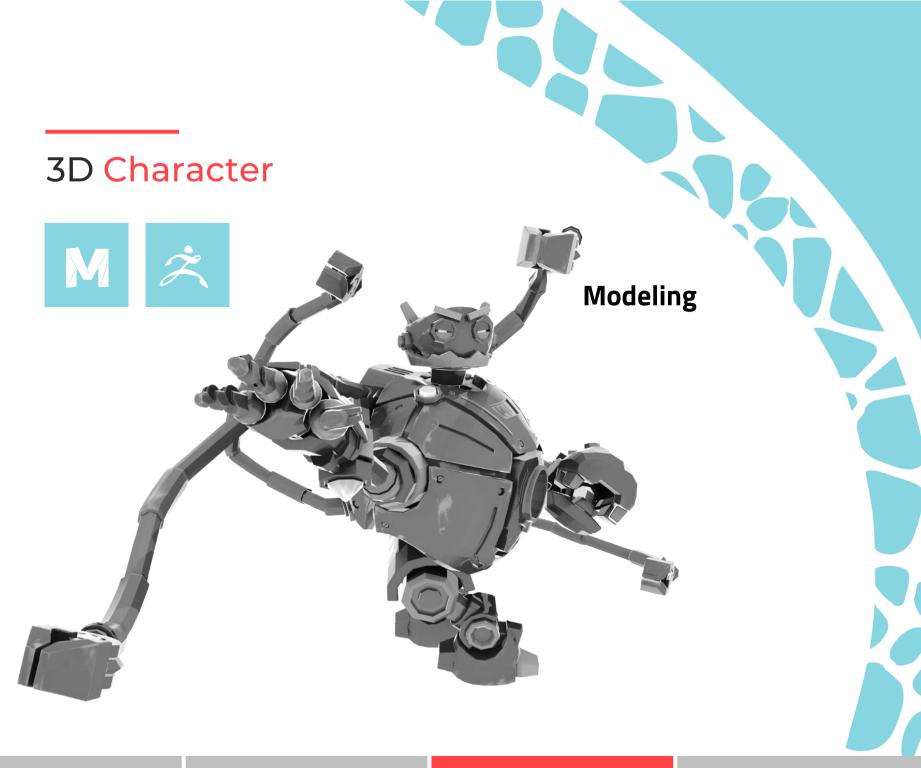
PRE-PRODUCTION

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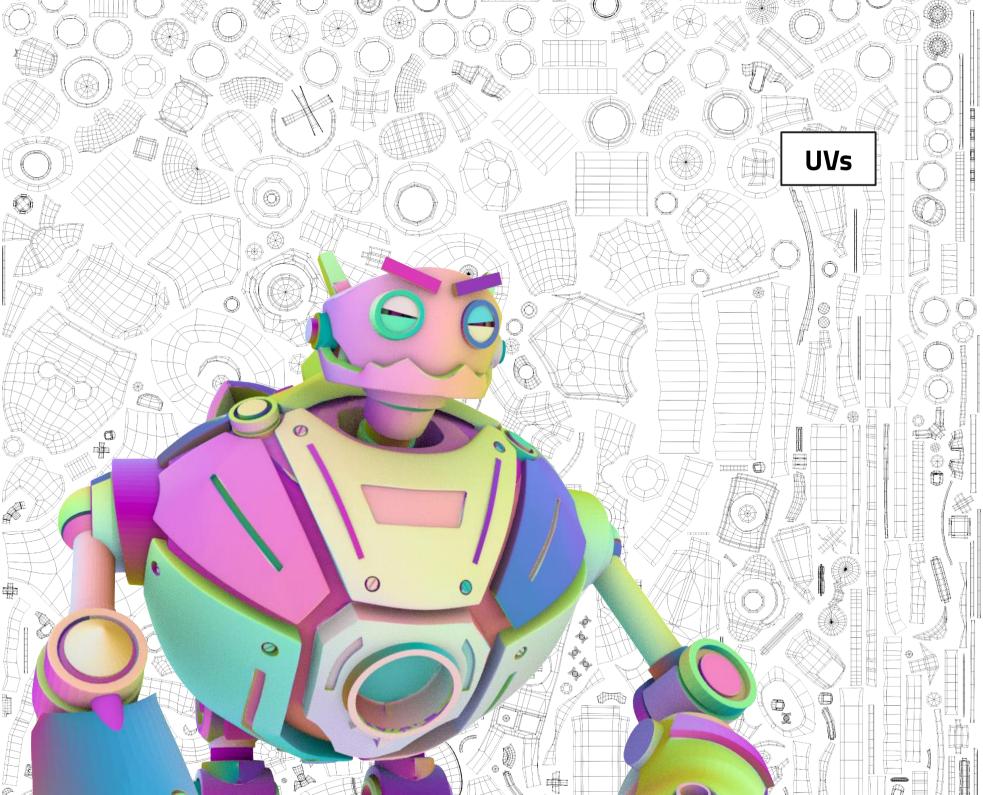




PRE-PRODUCTION



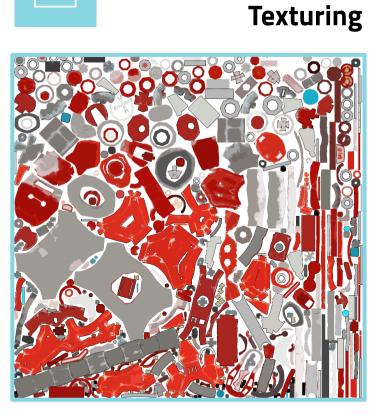
Туре	Preview	Vertices	Edges	Faces
Cube		8	16	6
High poly (Zbrush)		2,803,510	5,700,688	2,806,784
Low Poly (Zbrush)		718,853	1,435,688	717,024
Low Poly (Maya)		45,033	90,038	45,198





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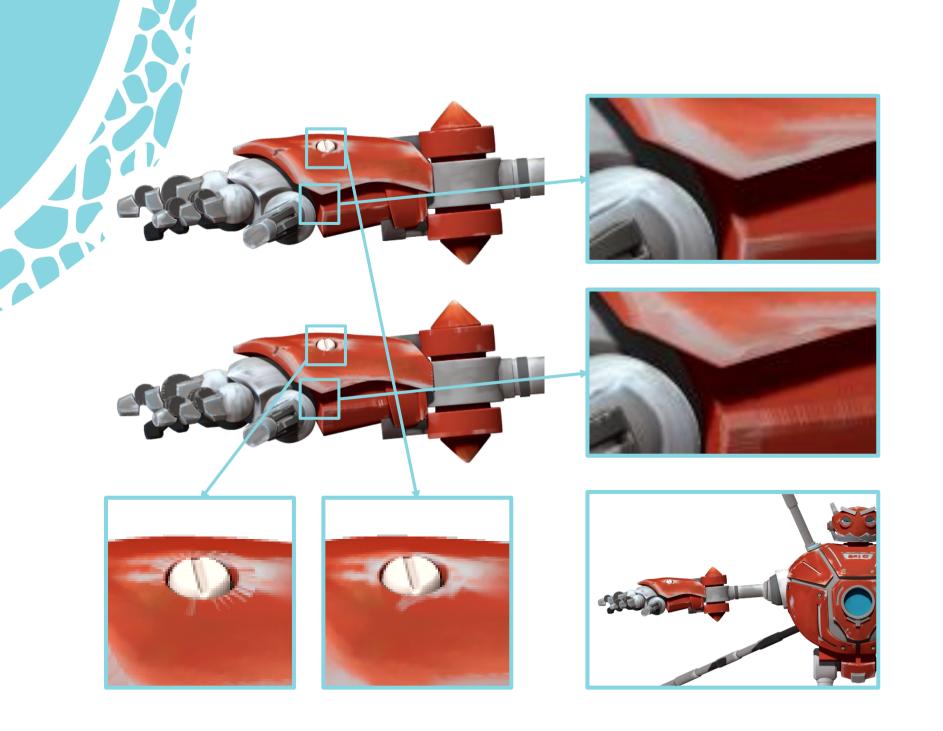
Indirect



Direct

PRE-PRODUCTION

PRODUCTION



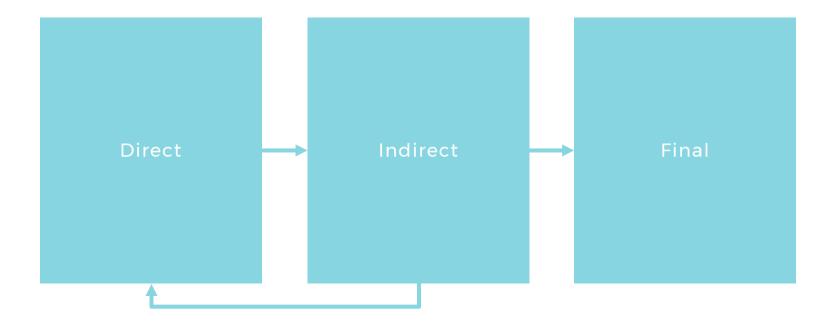
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PRE-PRODUCTION



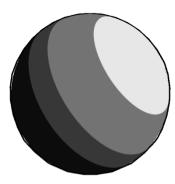
INTRODUCTION

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3D Character

aiStandard Surface



Toon Shader

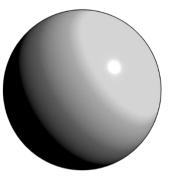




Phong Shader



aiUtility



aiToon



Ramp Shader

PRE-PRODUCTION

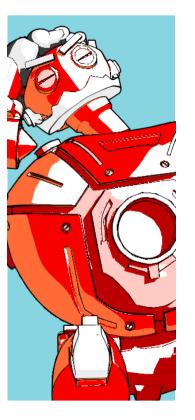
PRODUCTION



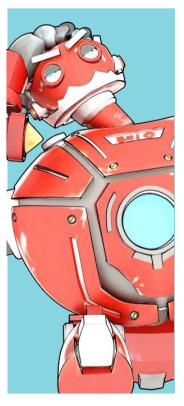
Lambert



aiStandard Surface



Toon Shader



aiToon

PRE-PRODUCTION

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aiStandard Surface

Lambert

PRE-PRODUCTION

PRODUCTION



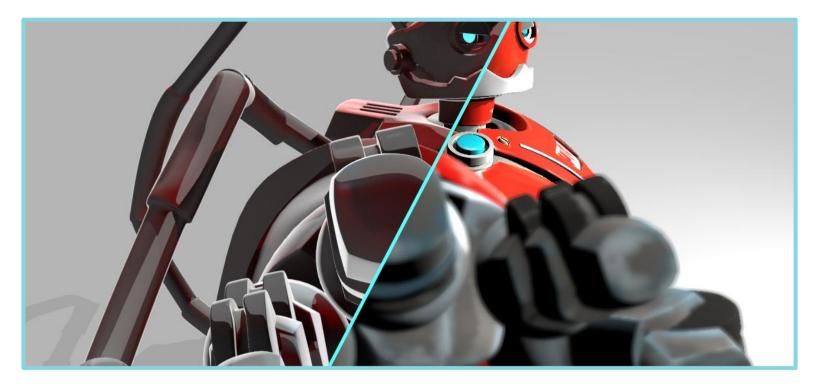


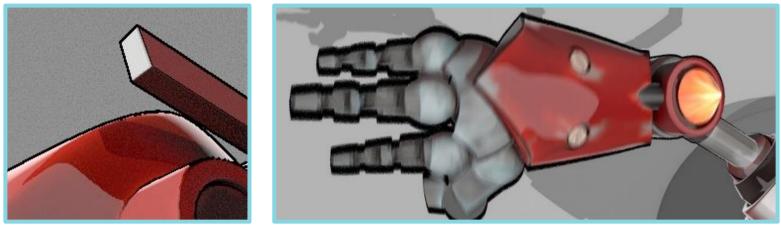
Toon Shader

aiToon

PRE-PRODUCTION

PRODUCTION



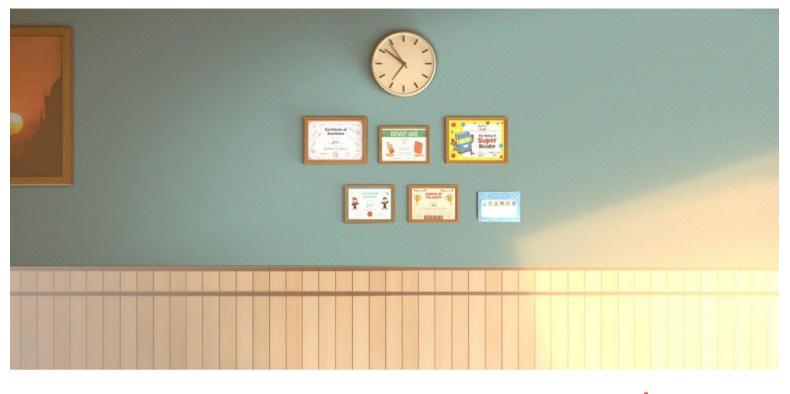


PRE-PRODUCTION

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3D Background



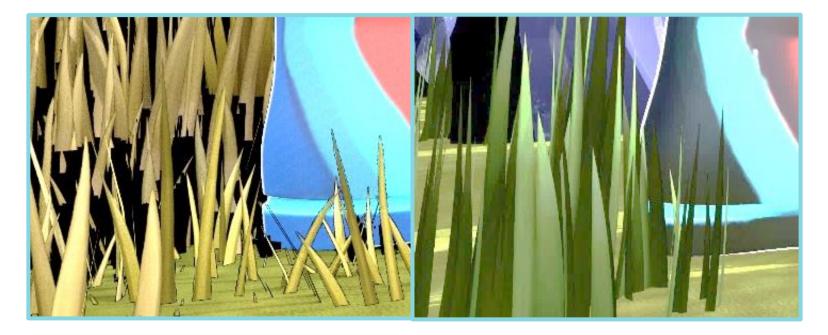
2D > 3D: House

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PRE-PRODUCTION

PRODUCTION





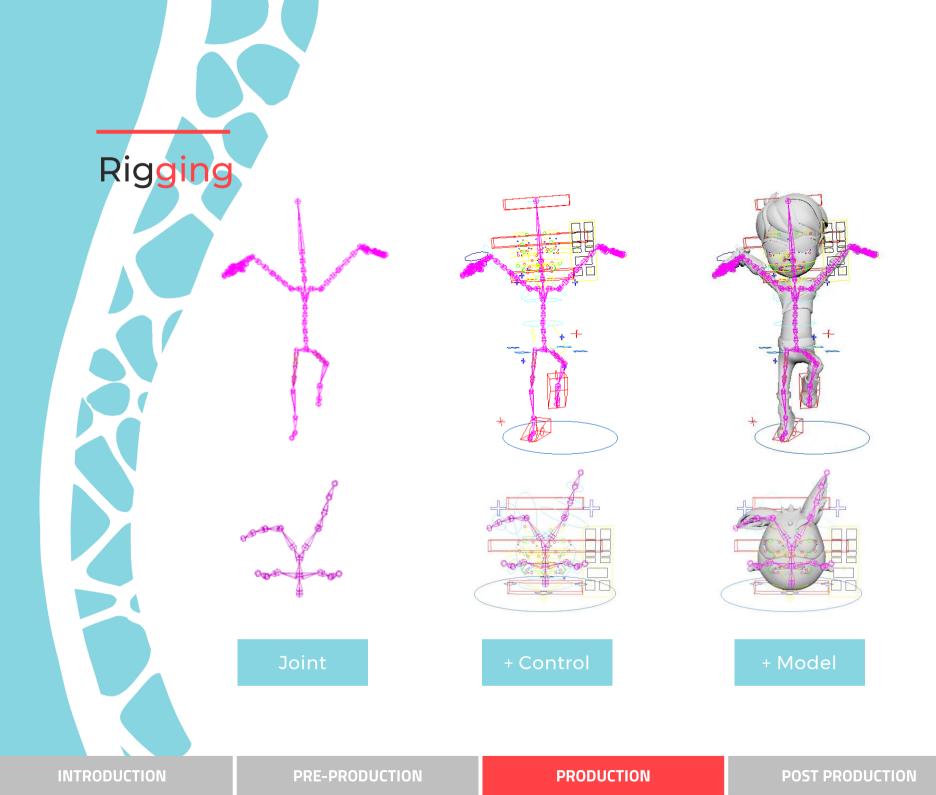
2D > 3D: Grass

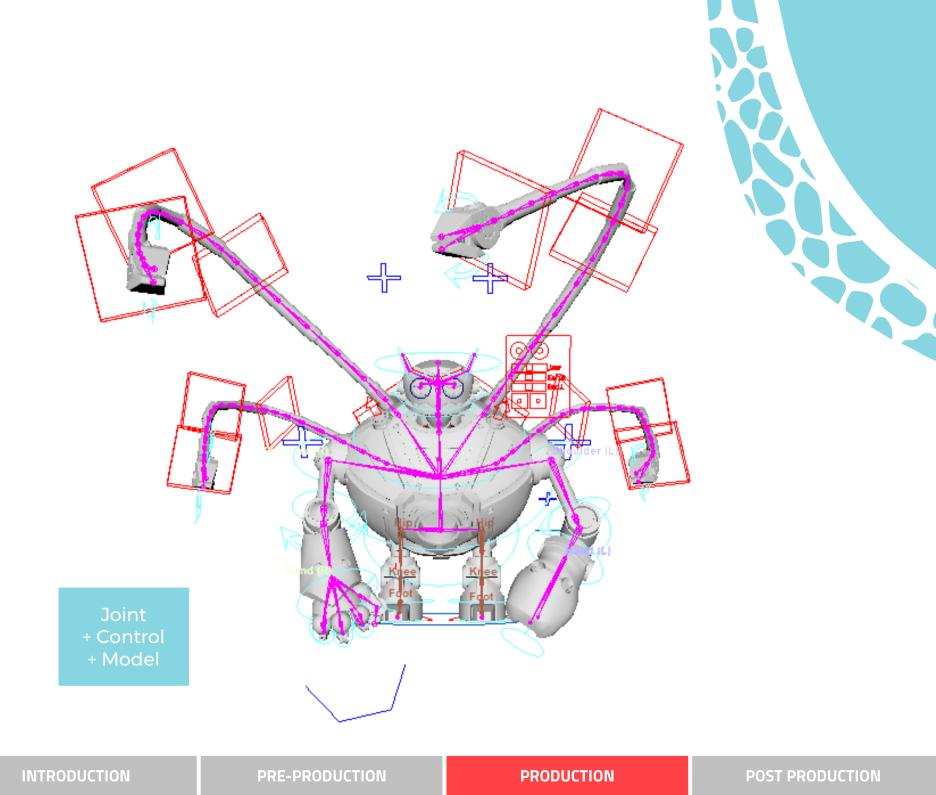
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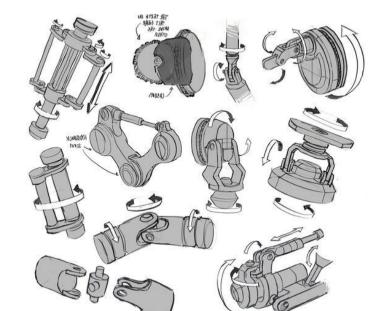
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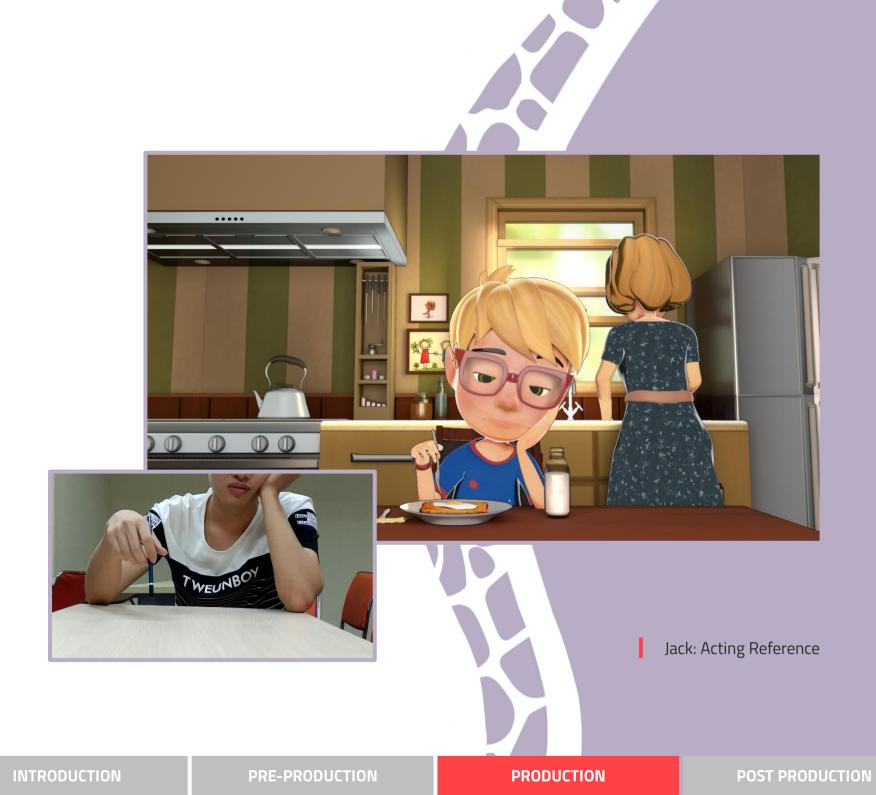


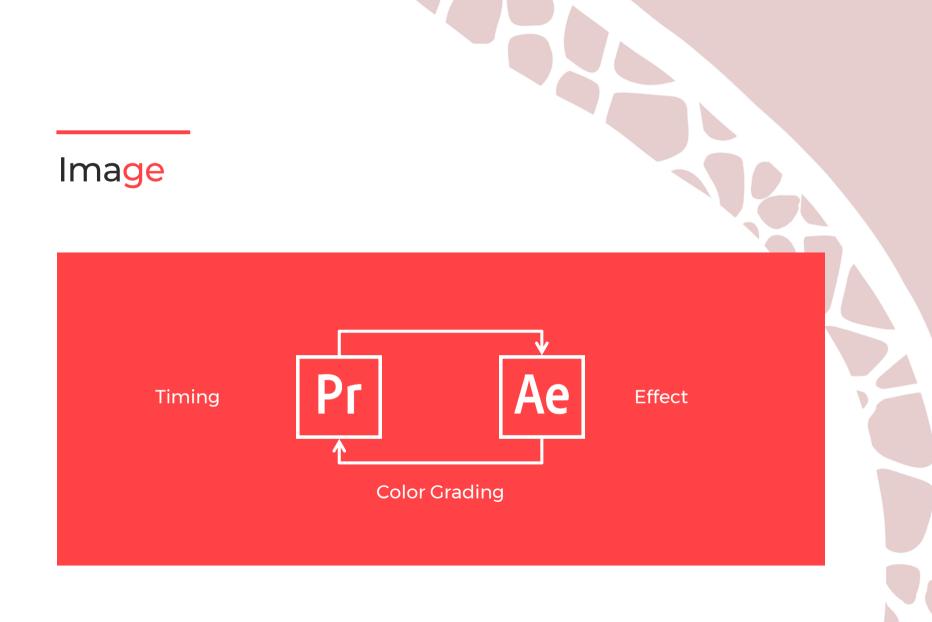
Robot: Acting Reference

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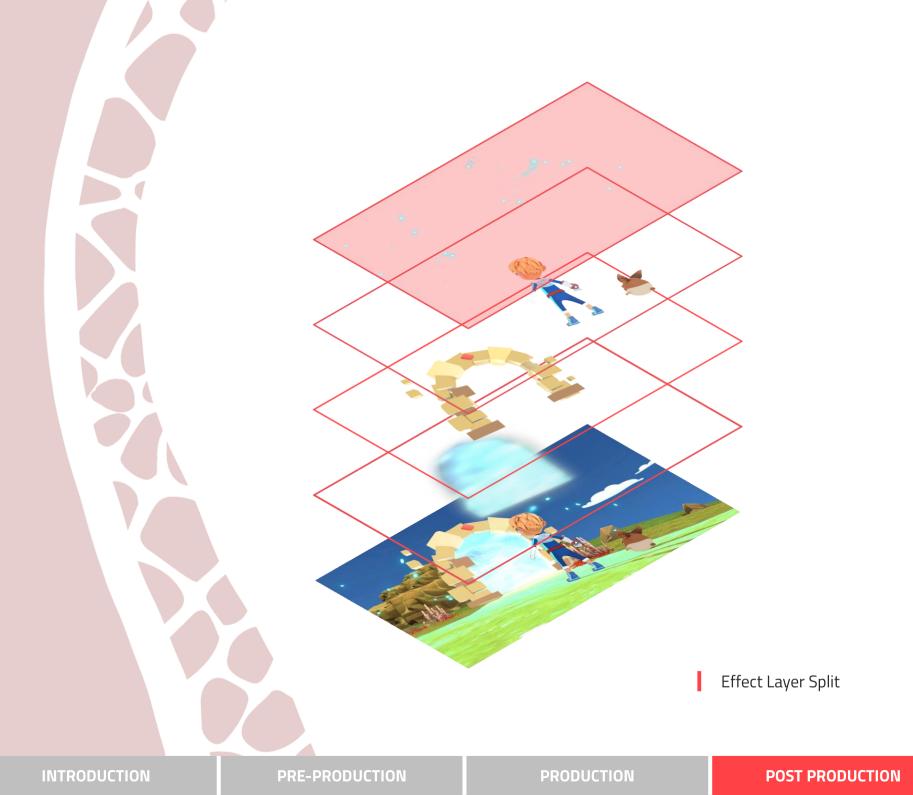
PRODUCTION



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Before After

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PRE-PRODUCTION



Without DOF effect

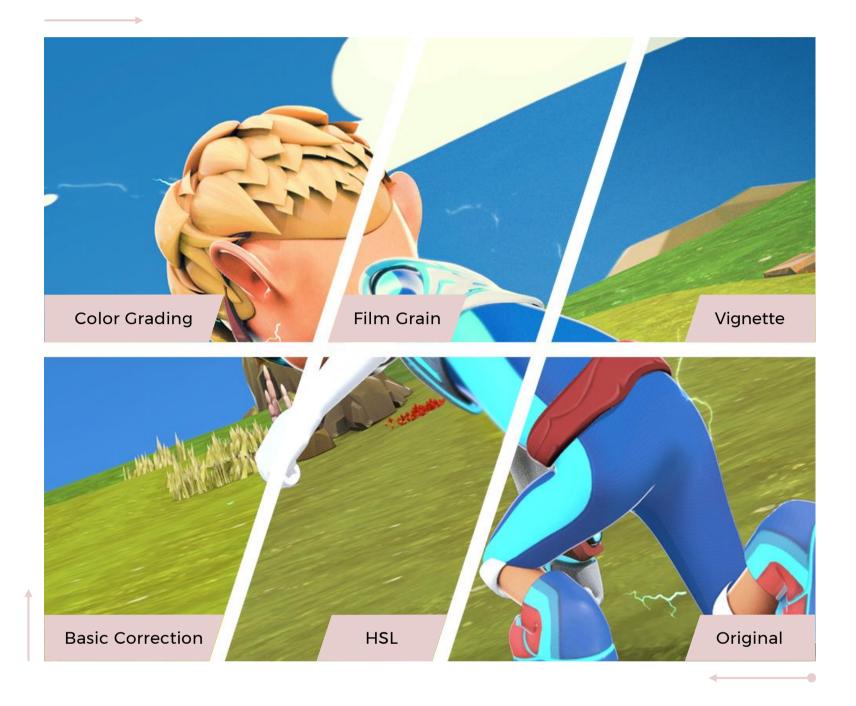
With DOF effect



Without Motion Blur effect

With Motion Blur effect

PRE-PRODUCTION



PRE-PRODUCTION

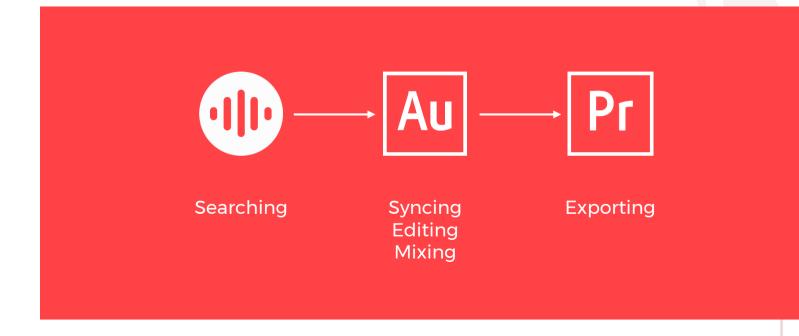
"Oops!" VFX BREAKDOWN

INTRODUCTION

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Sound & Music



INTRODUCTION

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