Fpt University
ĐẠI HỌC FPT

MINISTRY OF EDUCATION AND TRAINING

# FPT UNIVERSITY

## Capstone Project Document

## [Colours of Love]

| | | |
|---|---|---|
| **Member name** | Huỳnh Duy Nhật | Nguyễn Lê Minh |
| **Student ID** | SE61595 | SE61663 |
| **Supervisor** | Nguyễn Ngọc Tuấn | |
| **Capstone Project code** | | |

- Hanoi, 29 August/2017 -

# Table of Contents


Foreword ..... 3
Introduction ..... 4
I. CP Proposal ..... 5
1.1. Problem Definition ..... 5
1.1.1. Name of this Capstone Project ..... 5
1.1.2. Problem Abstraction ..... 5
1.2. Project Overview ..... 5
1.2.1. Ideas ..... 5
1.2.2. Tools of Development ..... 5
II. Design Proposal ..... 7
2.1. Script ..... 7
2.2. Storyboard ..... 8
III. Pre Design ..... 13
3.1. Characters Design ..... 13
3.1.1. Size Comparison Chart ..... 13
3.1.2. Design characters from different views (posing) ..... 14
3.1.3. Design facial expressions ..... 17
3.2. Background (environment) movement ..... 19
3.2.1. Normal scene ..... 19
IV. Design Finalization ..... 24
4.1. Characters and Environment Animation ..... 24
4.2.Poster ..... 25

Lessons learnt through working process ..... 26

# FOREWORD

During our four years studying at FPT University, we have learnt a lot of precious knowledge from our respected professors here. So as to be able to create such graduation project, we would like to send our deepest gratitude to all teachers and staff who are currently working at FPT University. Beyond anything, we would like to send our biggest thank to our family, our parents who have facilitated us to finish our four years here. We really appreciate all the companies and individuals who have supported us to accomplish our project with great outcome.

First and foremost, we would like to send our regards, our greetings and our gratitude to all the professors of Graphics Design department of FPT University. Thanks to all your precious lessons and dedicated support, we can now complete this graduation report. Especially, we would like to send our sincere regard to Mr Nguyen Ngoc Tuan, who has directly and dedicatedly supported and instructed us during the working process.

And we cannot deny the important role of the companies, which we have had our internship, have equipped us with practical experience and confidence in following our future career and finish this graduation project.

Due to the limited period of time as well as knowledge and experience, we hope to receive any feedbacks from you so that we can improve our future projects as much as we can.

Thank you!

# INTRODUCTION

From a very long time ago, love has been the inspiration for life. It exists, initiates us and surrounds us constantly. Some said that love is just like a magic spell which brings us different feelings, sometimes it makes us happy, sometimes just let us down. Love can heal a broken soul, but it is also love that ruins one. All these complicated features have made love the most beautiful thing that life have granted to human, made it the indispensable on earth. Love has long been the great inpiration for poets and artists in general. And we, the junior artists, are not the exceptions.

Nobody's perfect, anyone has made at least one mistake in their whole lifetime. However, the important thing lies in how you improve yourself and fix your own mistake to prevent it from happening again. That is the thing to be respected and appreciated. Take myself as an example, I have made so many mistakes in both life and love so far. Hope that this short movie will somehow help your life become more meaningful. From that, you can find out what is truly valuable to you, forget the past and just head to the better future.

# I. CP Proposal

## 1.1. Problem Definition

### 1.1.1. Name of this Capstone Project

Colours of Love ( Sắc màu của Tình yêu ).

Our short film is about love by using water colors to represent every characters. The main goal is to show love through the different shades based on color.

### 1.1.2. Problem Abstraction

Reflecting the thought of refusing the past of others without sympathy, “judging the book by his cover” as forgiving each other’s mistakes.

## 1.2. Project Overview

### 1.2.1. Ideas

Through the humanization of water color, “Colours of Love” is a short 2D animated movie based on the typical love story, through which we want to send this message to all the viewers: “Don’t judge people through their past, love means forgiving, healing and completing each other”.

This movie is about a man and his broken heart. After finding the ugly past of his lover, he feels so lost and scared, all he wants to do is to escape the present and leave everything behind. From the escape, he is attracted by many other girls. He did try hard to match and blend with them but that was impossible. Only when he almost loses everything that he realized he ain’t no different than his girlfriend in the old days and she is the one for him.

### 1.2.2. Tools of Development

After years of research and study in art areas, we have had the chance to have hand-on experiences with tools to express our idea, and water color is one of those.

Water color is formed by blending colors with water, creating a beautiful substance. The traditional canvas for water color to show off its beauty is paper. Along with paper, papyrus, plastic, parchment, leather and wood are also water color’s affiliates.The basic features of

water color are transparency and light, as well as purity and intensity of the color base.These features are due to the light amount of color which is always placed onto paper. As its name stated, water color is water-based, which makes it evaporates very fast (which is different from oil color). This makes water color convenient for carrying and painting regardless the location. Water color and their tools are easy to washed.

The good thing about water color is that it allows users to combine different base colors together to create a new unique shade just by blending and mixing them.When the number of colors being mixed are too many, the percentage of water will increased, which ruins everything, turning all these colors to the grey shade, which is normally know as “dirty” shade. Usually, you have to wash away these colors, but to some artists, they can utilize these colors by using a condensed base color to create a new mixture

Painting with water colors requires a whole set of skills, flexibility and most important is the right preservation. If water color is left aside for a long period of time, it will become to thick for painting. Some even contain mould. You can save some by mixing the dry color with water and stir thoroughly for a couple of minutes.

By humanizing water color, we have created a world that is filled with activity, which means that everything and everyone have to be active in order to survive. As we mentions previously, water color will be thickened and not usable if being left aside.

Due to the light and flexible feature of water color, we have chosen dancing and singing along with instruments to represent the constant movements of the characters. In terms of dancing, ballet and dancing are simply the top choices to present the movement and personality of the characters. However, both methods are limited in the ways to express feelings. Therefore, in order to easily blend things up, we choose the random modern dance. Besides, all of the characters also express their feelings through actions and music. They do not use narration as usual in order for the dancing to be presented at its fullest.

After many researches, we have decided to go with “frame by frame” animation method in order to bring the most natural movements and controlable spinning of the characters when they dance. Besides, we also used After Effect to animate the side characters and create color changing effects as well as scene changing for the whole movie.

And final, the background is intentionally simplified so as to match with the story’s plot, which is basically abstract, unclear and blurry.

# II. Design Proposal

## 2.1. Script

- Camera slowly moving down -
The appearance of 2 main white characters who were dancing Rhumba (a slow romantic love dance).

- After a rotation, camera begin to zoom into the male character's hand -
The male character regconized a strange color on the girls's body, then touched it with curious. Instantly, the color spreaded over him, making him scared and then he stepped back (the color stopped spreading and disappeared). The male character hastly left the girl.

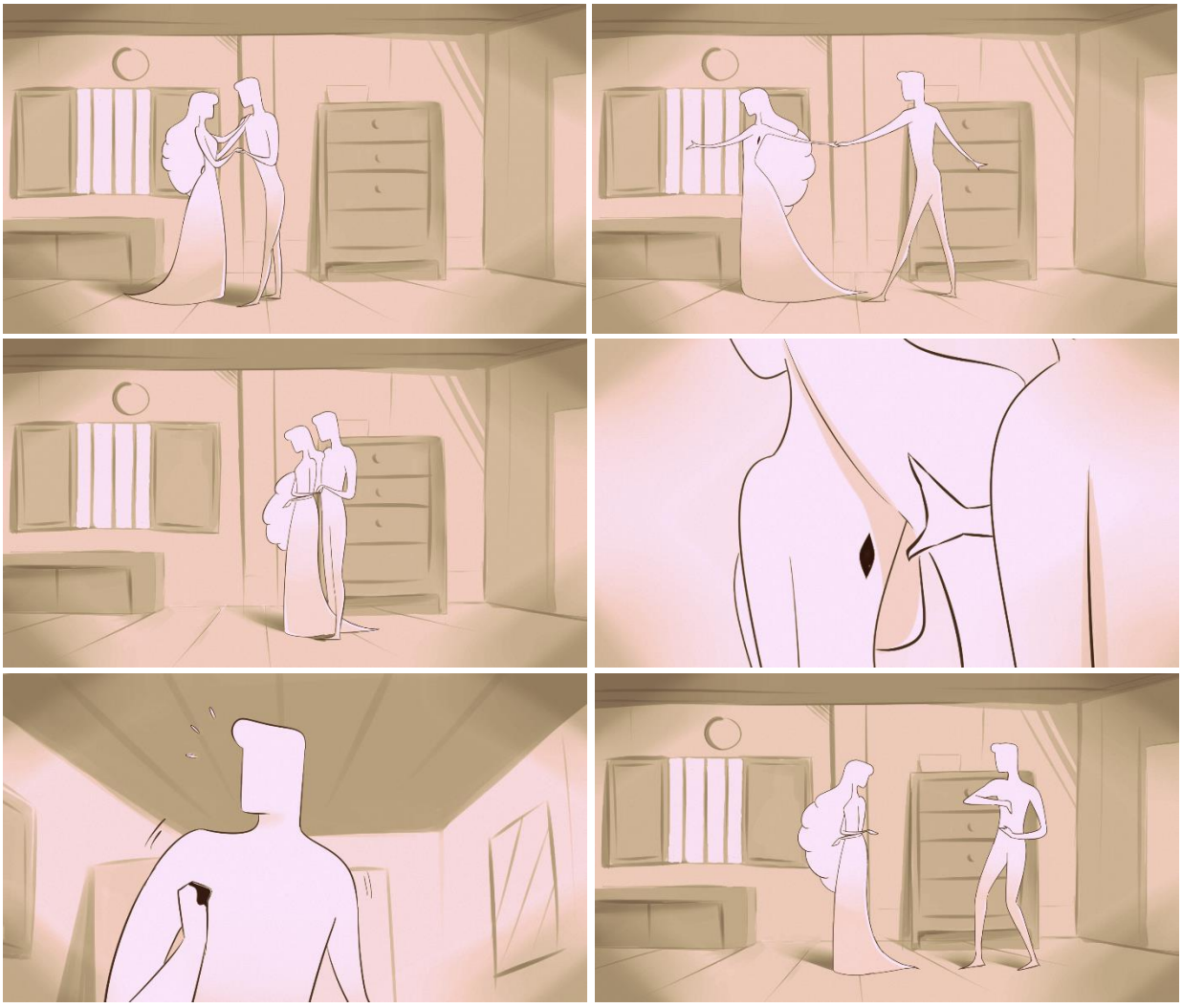
- Camera's movement is based on the male character from now -
The male character was attracted by the melody of an instrument, he then followed it. Then, he saw a yellow female character playing passionately with her violin.
The male character approached and started dancing around the yellow girl, then his own color changed (his moves were no longer a slow dance which he made with the main girl).
For couple seconds, another music instrument sound appeared, gaining interested on the male character's attention and he once again followed it.
He saw a red woman who played guitar, he started to dance next to her with his new moves and color.
Even more curious music instrument sound resounded, made The male character left.
In front of him was a blue woman playing the piano, his footsteps followed the slow melody. Regconize his interest, the blue female speed up the beat and The male character started to dance furiously.
After a while, others females that brought their owns instruments showed up around him, the male character danced non-stop. In order to merge everything together, his color changed continuosly. The melody then sounded strangely weird, and chaos.

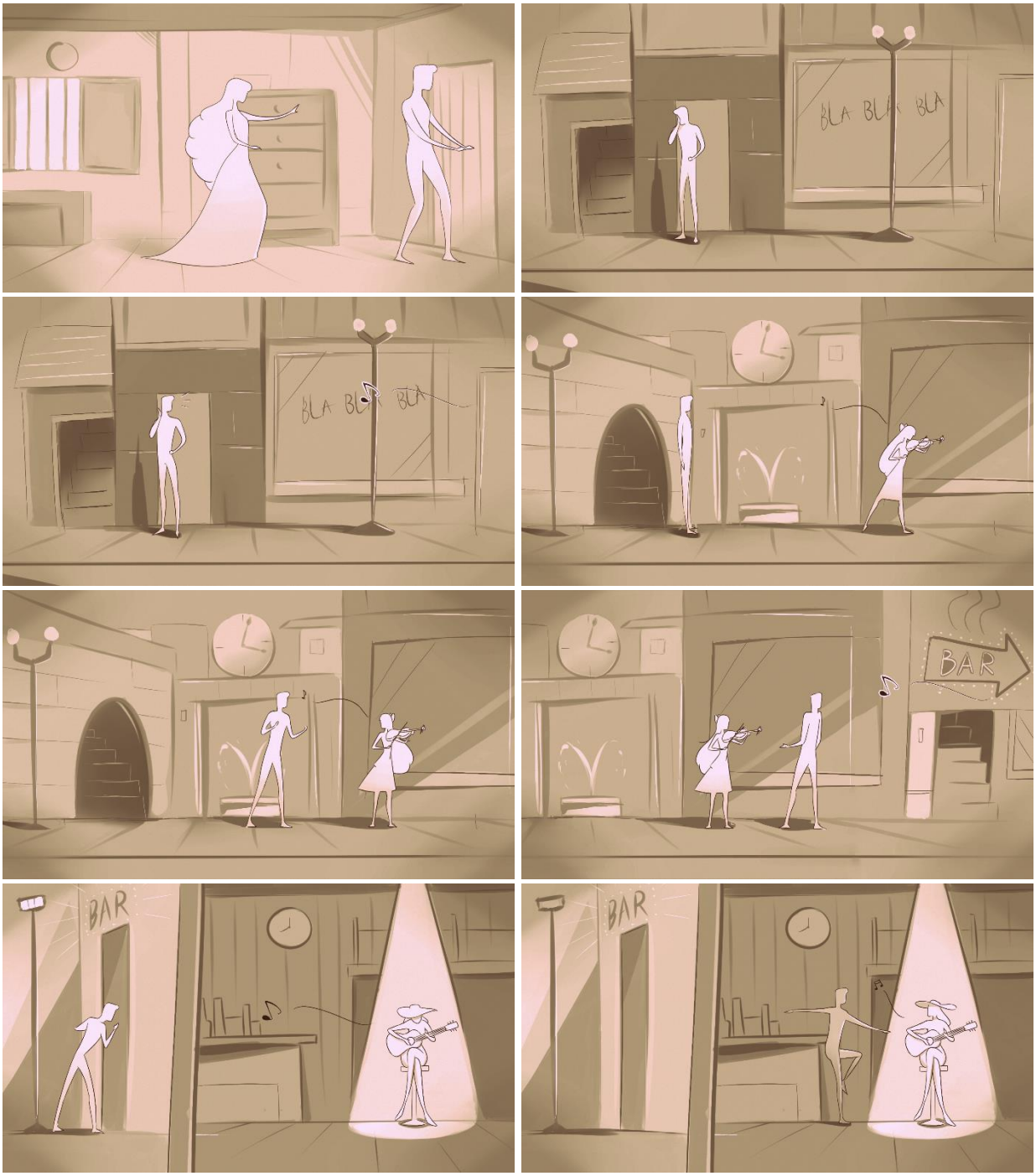
- A random character goes across the screen, constantly changing scenes -
All of his shapes and color made him heavy and hardly to move. He merged everything together and instantly becaming an ugly shape. Starting to panic, he looked around, searching for way out and then ran away.

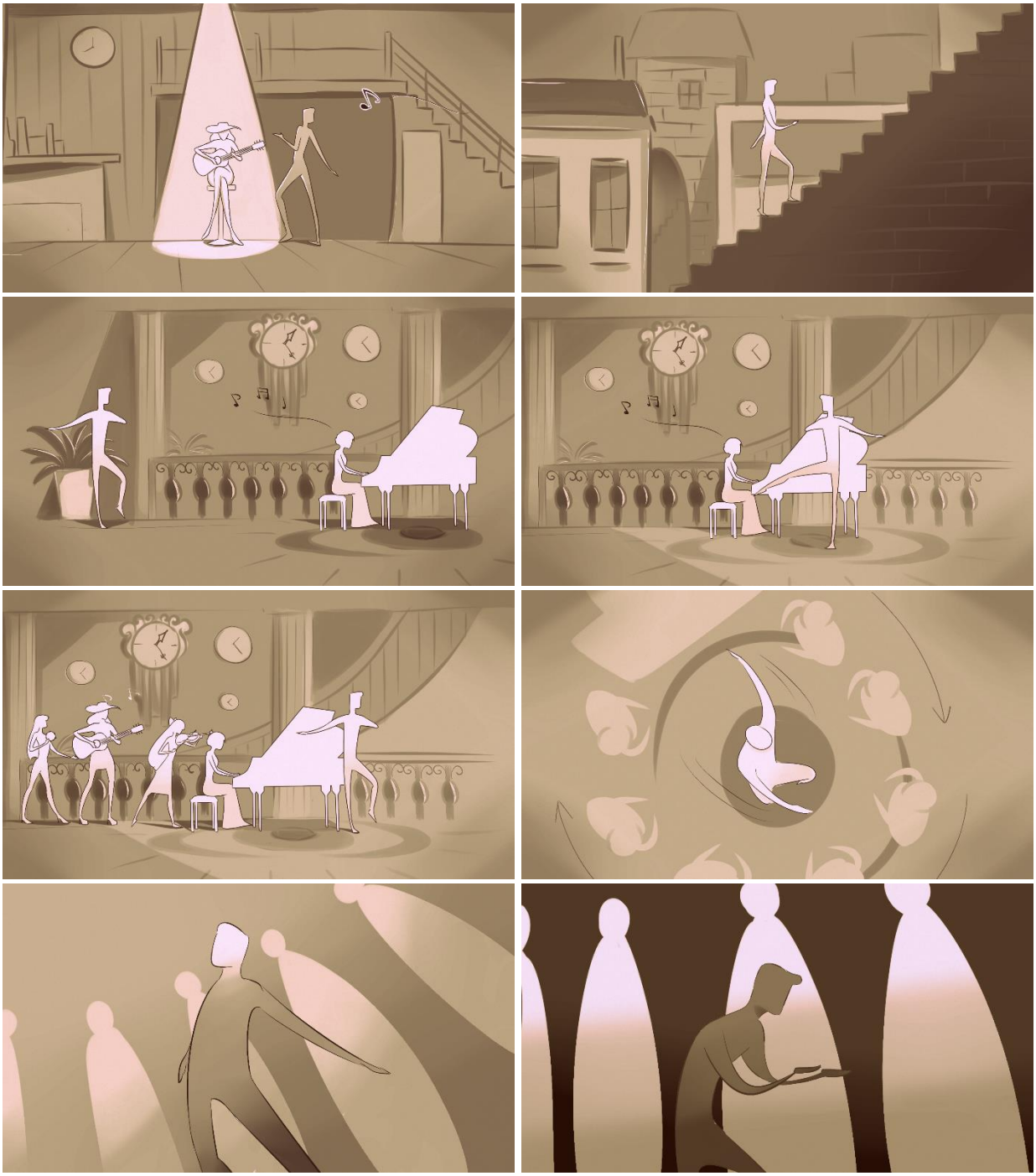
The male character kneeled down, begging for help.
Unexpectedly, the main girl appeared, approached and touched The male character. The dark sight vanished and became brighter just like before. The male character transformed, back to his beginning.
The main girl helped The male character stand up and lead him to her own dance. They danced together once again. And the music sounded smooth again.
- Camera slowly moving up -

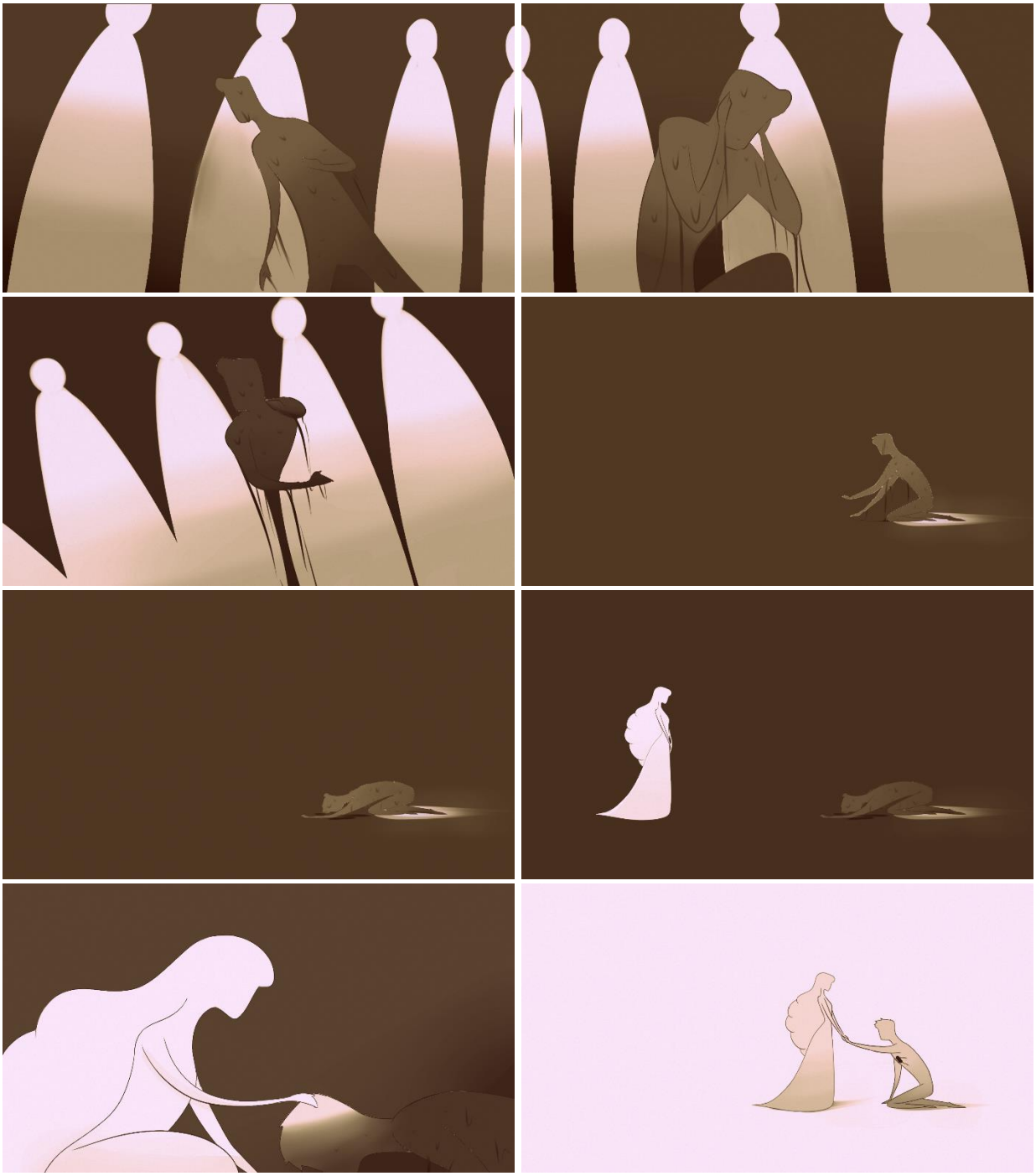
END.

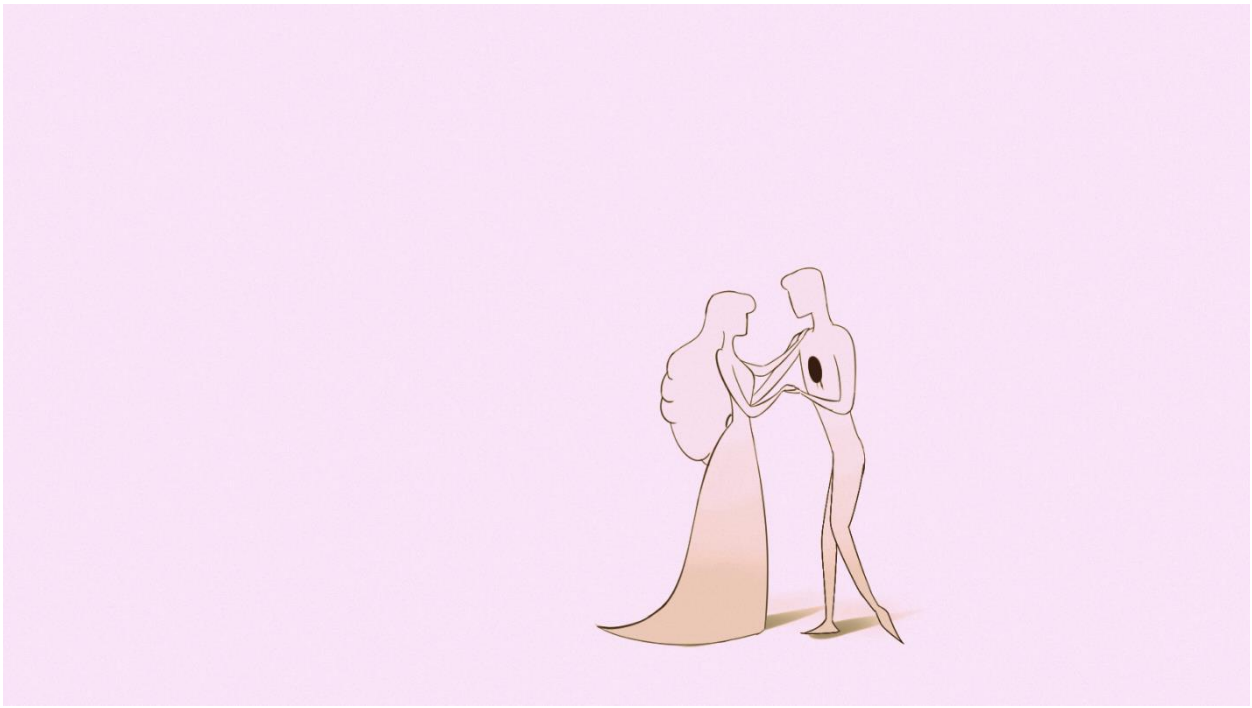
**2.2. Storyboard**




BLA BLA BLA
BLA BLA BLA
BAR
BAR
BAR







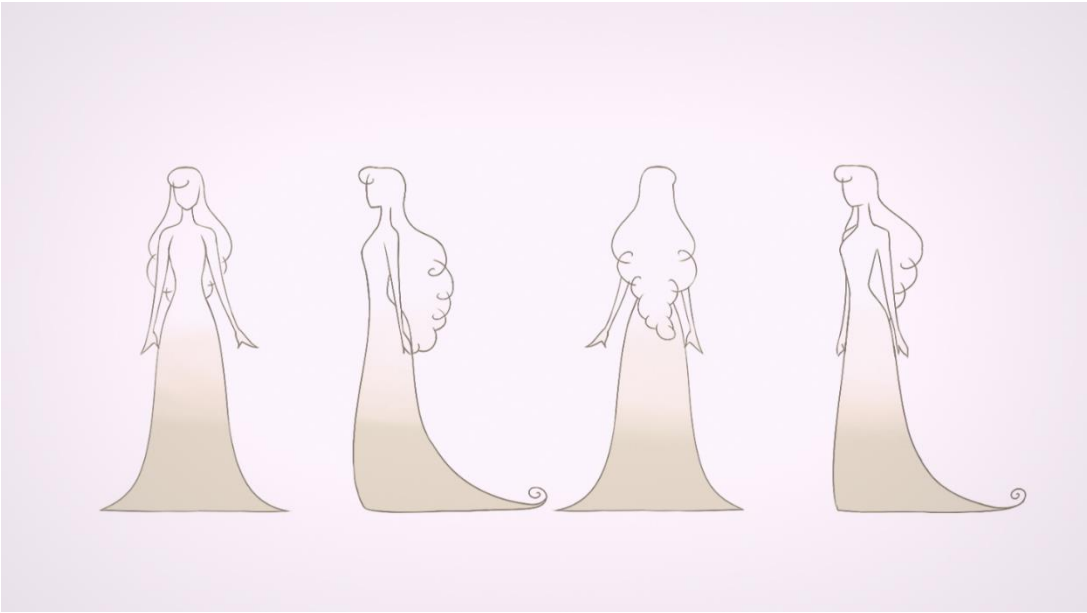
# III. Pre Design

## 3.1. Characters Design

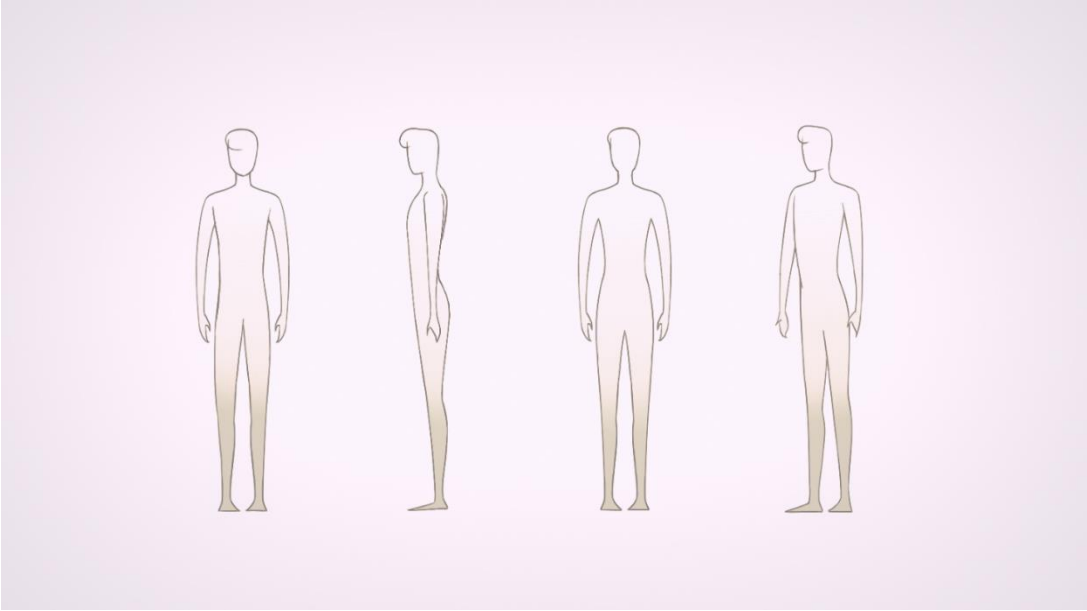
### 3.1.1. Size Comparison Chart

From Left to Right: Female Main Character, Male Main Character, The Red Woman, The Yellow Girl, The Blue Woman

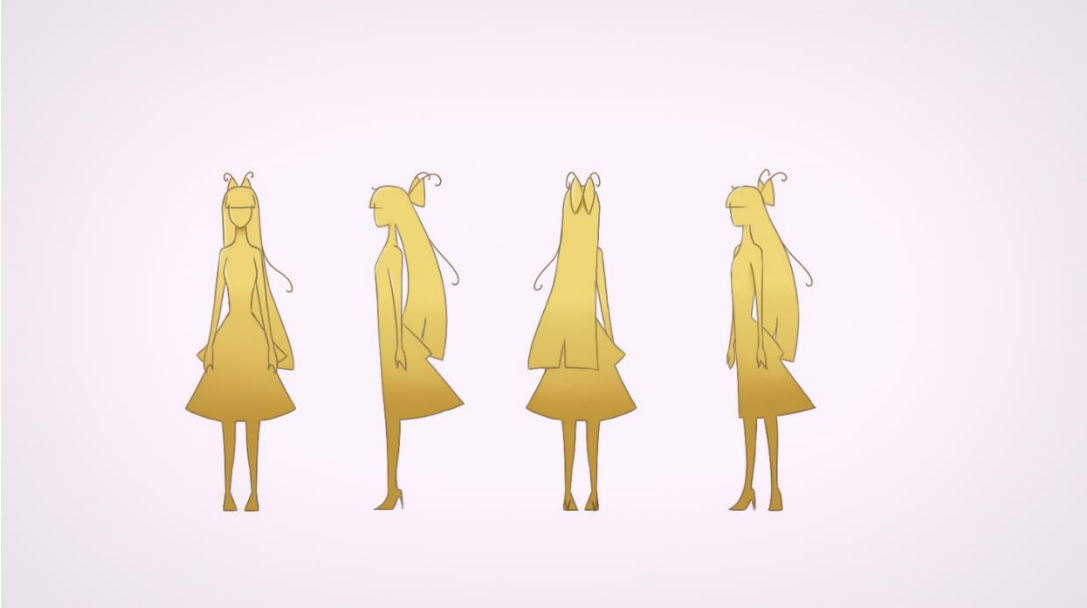
3.1.2. Design characters from different views (posing)



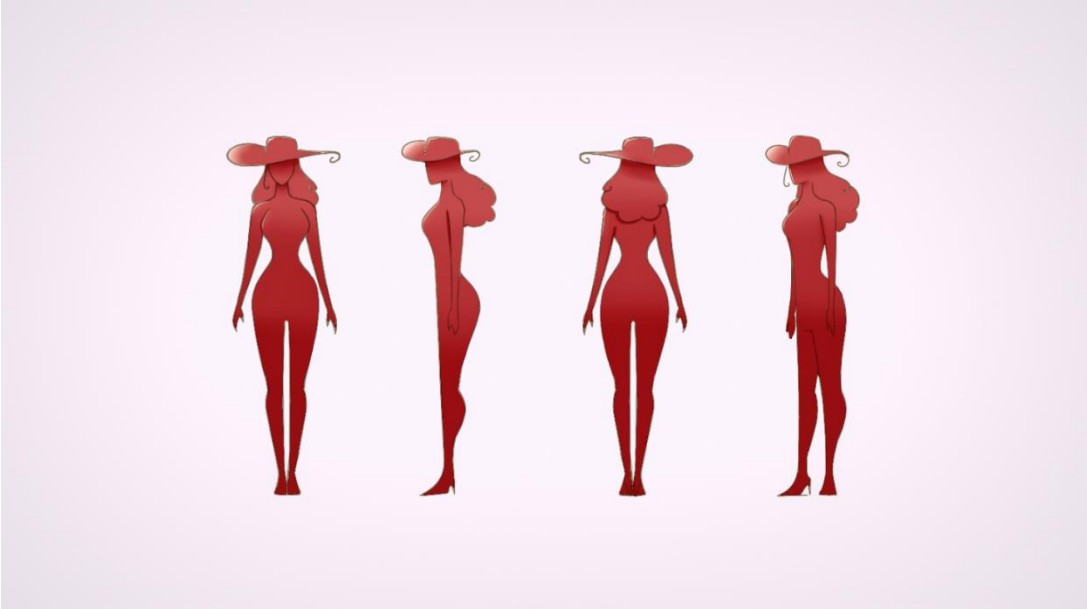
The Female Main Character (Singer)



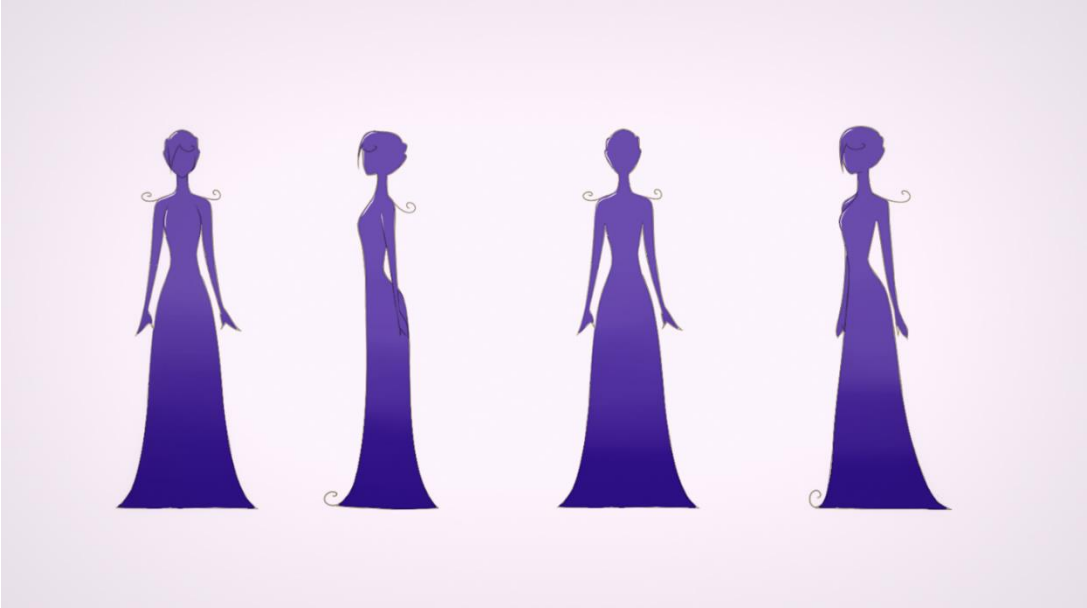
The Male Main Character (Dancer)



The Yellow Girl (Violinist)



The Red Woman (Guitarist)



The Blue Woman (Pianist)

3.1.3. Design facial expressions

As mentioned, our character line has no face and their expression is based on action.

### 3.2. Background (environment) movement

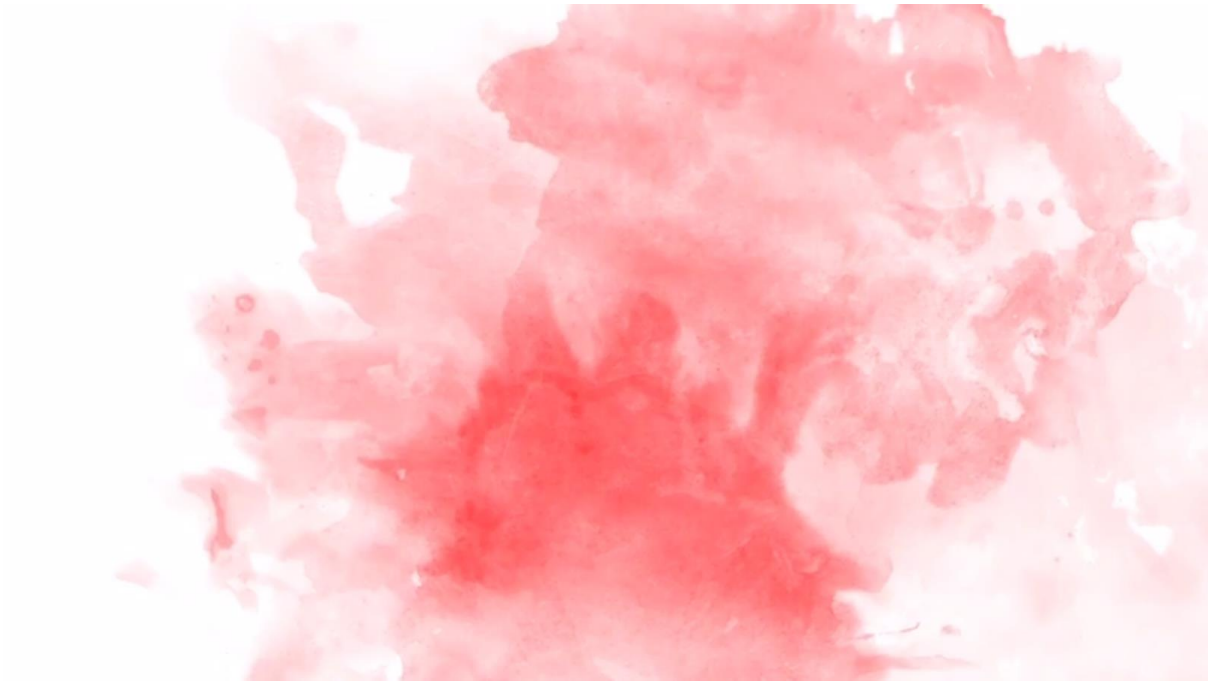
3.2.1. Normal scene:

Scene 1: This is where our main characters dancing together, showing their relationship to the audience. It remains like this until the male character has already gone.

Scene 2: This is where our main character met the Yellow Violinist. This scene remains until he moved into the next girl.

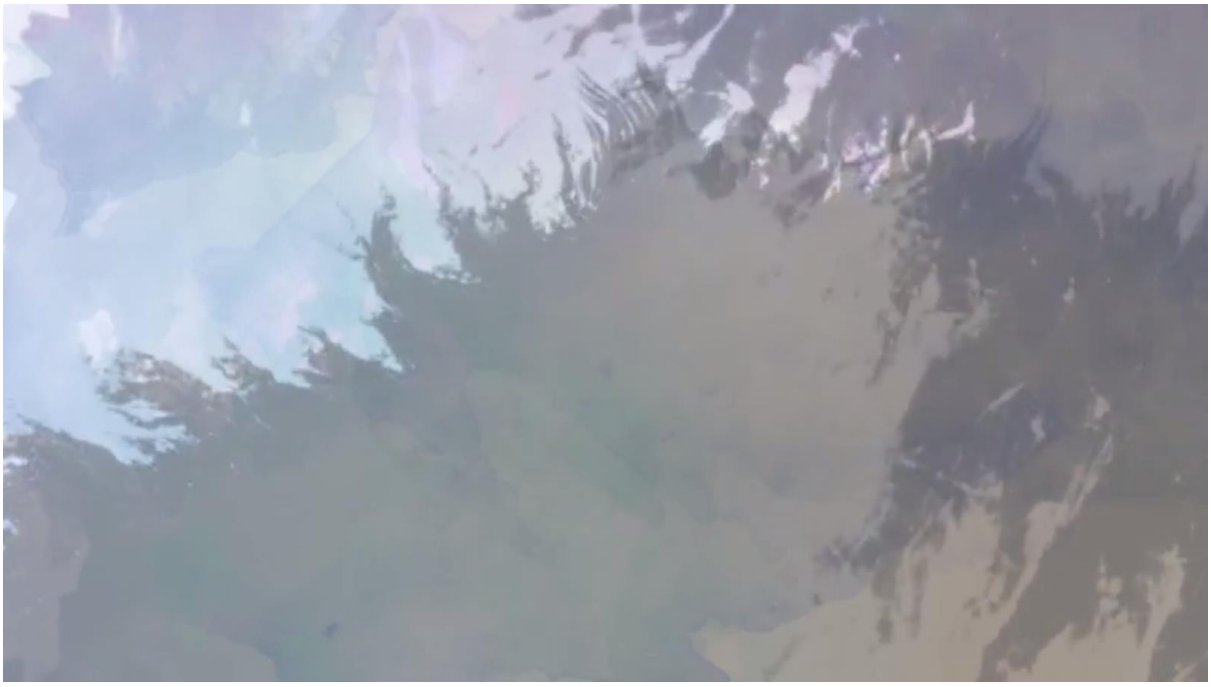


Scene 3: The scene between our main character and the Red Guitarist. This scene remains until he moved into the next girl aswell.



Scene 4: This is where the main character met the Blue Pianist. He started to dance furiously.

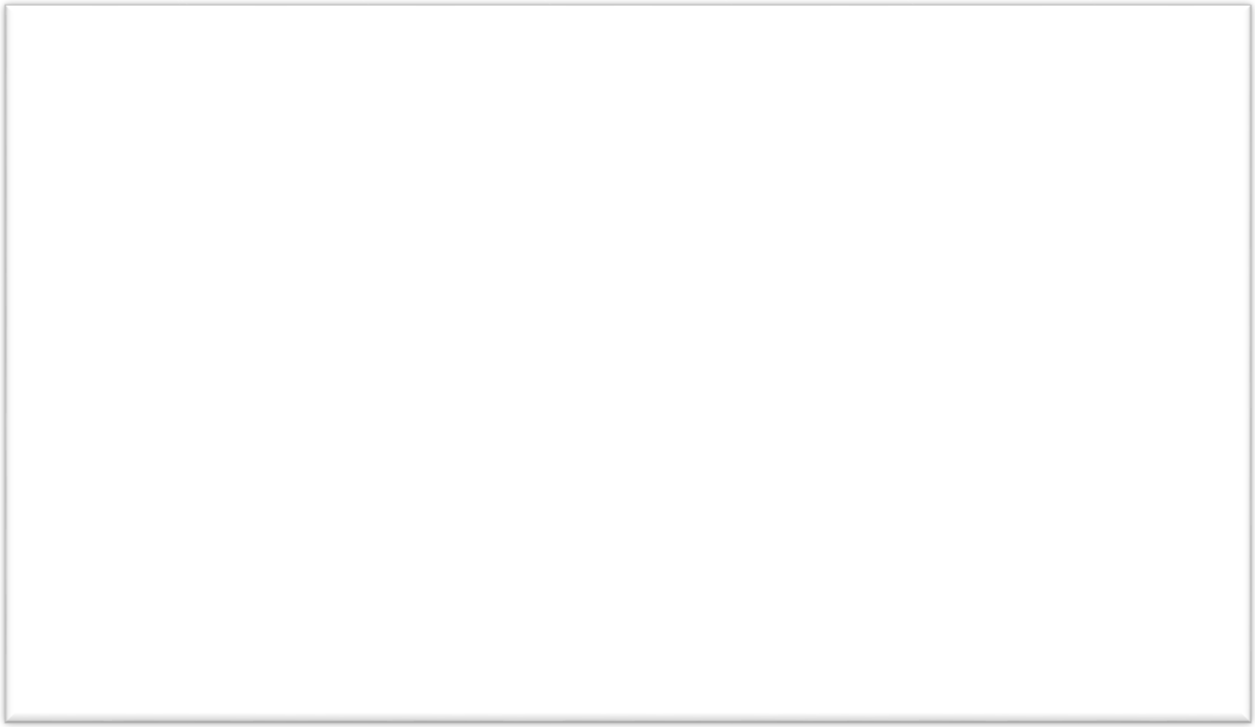
Scene 5: Many colors combined together and created a whole mess of grey.



Scene 6: Everything turned to dark, the main character is falling down, crying for help.

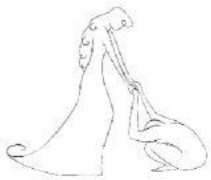
Scene 7: The female main character came and touch the male character. His shape and color is coming back and the background aswell.

Scene 8: Once again, they dance together until the end of the movie.



# IV. Design Finalization

**4.1. Characters and Environment Animation.**



**4.2. Poster.**

Colors of love
QS STARS
RATED FOR EXCELLENCE
2012
FPT Fpt University
TRƯỜNG ĐẠI HỌC FPT
GV: Nguyễn Ngọc Tuấn
SV: Huỳnh Duy Nhật, Nguyễn Lê Minh

## Lessons learnt through working process.

The 4-month period for making a graduation project with the instruction of our professor is kind of a rush to us. However, both of us have tried our best to finish this movie with the best quality. We have gone through ups and downs together. And the difficulties seem to get worse whenever we feel homesick. Thankfully, the movie comes out as planned, even if it is not the perfect one, we feel proud of us, not only by finishing the project, but also by having a good partner, a good team.

In terms of academy, we are lucky to have such a dedicated instructor as Mr Nguyen Ngoc Tuan, who always support and sends us feedbacks so we can improve our project and

ourselve day by day. From this project, we have draw so many precious experience in animation that can help us move forward in our future career with proud.