

# **Faculty of Applied and Creative Arts**

# Visualization of The Endangered Crisis of Proboscis Monkey in 2D Animation

**Caroline Thow Shun Ling** 

Bachelor of Applied Arts with Honours (Design Technology) 2013

# VISUALIZATION OF THE ENDANGERED CRISIS OF PROBOSCIS MONKEY IN 2D ANIMATION

CAROLINE THOW SHUN LING

This project is submitted in partial fulfillment of the requirements for the degree of Bachelor of Applied Arts with Honours (Design Technology)

> Faculty of Applied and Creative Arts UNIVERSITI MALAYSIA SARAWAK 2013

### UNIVERSITI MALAYSIA SARAWAK

# THESIS STATUS ENDORSEMENT FORM TITLE: <u>VISUALIZATION OF THE ENDANGERED CRISIS OF PROBOSCIS</u> <u>MONKEY IN 2D ANIMATION</u>

#### ACADEMIC SESSION: 2012/2013

### I CAROLINE THOW SHUN LING

hereby agree that this Thesis\* shall be kept at the Centre for Academic Information Services, Universiti Malaysia Sarawak, subject to following terms and conditions:

- 1. This Thesis is solely owned by Universiti Malaysia Sarawak
- 2. The Centre for Academic Information Services is given full rights to produce copies for educational purpose only
- 3. The Centre for Academic Information Services is given full rights to do digitization in order to develop local content database
- 4. The Centre for Academic Information Services is given full rights to produce copies of this Thesis as part of its exchange item program between Higher Learning Institutions
- 5. **\*\*** Please tick  $(\sqrt{)}$

 CONFIDENTIAL
 (Contains classified information bounded by the OFFICIAL SECRETS ACT 1972)

 RESTRICTED
 (Contains restricted information as dictated by the body or organization where the research was conducted)

 √
 UNRESTRICTED

 Validated by
 Validated by

 (AUTHOR'S SIGNATURE)
 (SUPERVISOR'S SIGNATURE)

 Permanent Address
 P.O.Box 361, 89058 Kudat, Sabah.

Notes \*Thesis refers to PhD, Master and Bachelor Degree

Date:

\*\* For Confidential or Restricted materials please attach relevant documents from relevant organizations/authorities

Date:

# DECLARATION

The project entitled 'Visualization of The Endangered Crisis of Proboscis Monkey in 2D Animation' is prepared by Caroline Thow Shun Ling and submitted to the Faculty of Applied and Creative Arts in partial fulfillment of the requirements for a Bachelor of Applied Arts with Honours (Design Technology).

Received for examined by:

(Miss Noorhaslina bte Senin)

Supervisor

Design Technology Department

Date: \_\_\_\_\_

### ACKNOWLEDGEMENTS

I would like to take this opportunity to express my gratitude to everyone who have reaching out along the way to help me to complete this research. First of all, I would like to thank my beloved family for their support, care and understanding.

A deep appreciation and thanks to my supervisor, Miss Noorhaslina bte Senin, giving helps, advices and supervisions from the beginning until to the end of the research. I am really appreciates for her patient and intention in providing knowledge, ideas, suggestions, and offered the time and efforts for helping me throughout this research.

A very sincere thank you for all the lecturers of Animation department, Mr. Azwan Abidin, Mr. Terry Lucas, Mdm. Syaryfah Fazidawaty bt Wan Busrah and all Design Technology's lecturers. I also would like to thank to our technician, Mr. Humprey Lincoln who's provided solution for facilities and technical problem in animation lab.

This research couldn't have been completed without the help and support from everyone in Faculty of Applied and Creative Arts. Much appreciation also goes to all my friends who had contributed towards this research.

Thank you.

# **TABLE OF CONTENT**

Approval Sheet	ii
Declaration	iii
Acknowledgements	iv
Table of Content	v
List of Figures	X
List of Graphs	xi
Abstract	xii
Abstrak	xiii

# CHAPTER 1 RESEARCH BACKGROUND

1.0	Background of the Study	1
1.1	Problem statements	3
1.2	Objectives	4
1.3	Significance of Research	5
1.4	Hypothesis	5
1.5	Limitation	5

## CHAPTER 2 LITERATURE REVIEW

2.0	Introduction	7
2.1	Proboscis Monkey	7
2.2	Animation	11
2.3	Conclusion	16

# CHAPTER 3 RESEARCH METHODOLOGY

3.0	Introduction		
3.1	Qualit	ative Research	
	3.1.1	Interview	18
	3.1.2	Visual Analysis	18
	3.1.3	Video Analysis	19
	3.1.4	Books and Journal	19
	3.1.5	Internet	20
3.2	Quant	itative	20
3.3	Concl	usion	21

# CHAPTER 4 DATA ANALYSIS

4.0	Introd	uction	22
4.1	Interv	iew	22
4.2	Findin	gs Data through Questionnaire	23
4.3	Data A	Analysis	
	4.3.1	Part A- Respondent Profile	24
	4.3.2	Part B- General Research	25
	4.3.3	Part C- Recommendation	28
4.4	Visual	Analysis	
	(i)	Photography	33
	(ii)	Illustration	34
4.5	Video	Analysis	36
4.6	Concl	usion	42

## CHAPTER 5 DESIGN PROPOSAL

5.0	Introduction		
5.1	Idea 7	reatment	
	5.1.1	Animation Title	43
	5.1.2	Genre and Concept	43
	5.1.3	Duration	43
	5.1.4	Target Audiences	44

### 5.2 Pre-Production

5.2.1	Character Design	45
5.2.2	Finalize Characters Design	47
5.2.3	Background Design	49
5.2.4	Storyboard	50
5.2.5	Animatic	54

44

### 5.3 Production

5.3.1		1 Experimental on Visual	
	5.3.2	Experimental on Animation Techniques	57

# 5.4 Post-Production

5.4.1	Sound Design and Editing	61
-------	--------------------------	----

5.5 Conclusion 62

## CHAPTER 6 VALIDATION

6.0	Introduction	63
6.1	Questionnaire	63
6.2	Data Analysis	64
6.3	Conclusion	65

### CHAPTER 7 CLAIMS

7.0	Title	66
7.1	Abstract	66
7.2	Technical Field	67
7.3	Claims	67

# CHAPTER 8 CONCLUSION

8.0	Conclusion	69

BIBLIOGRAPHY	71

REFERENCES	72

# APPENDICES

Apendix 1: Interview Questions	75
Apendix 2: Research Questionnaire	76
Apendix 3: Sketches	80
Apendix 4: Script	82
Apendix 5: Storyboard	86
Apendix 6: Poster 1	87
Apendix 7: Poster 2	88

Apendix 8: Panel	89
Apendix 9: Photography	90
Appendix 10: Visual References	92
Appendix 11: Validation Form	96

# LIST OF FIGURES

Figure 1-1: Endangered Statement of Proboscis Monkeys	3
Figure 3-1: Research Diagram	17
Figure 4-1: Tour Guide, Miss Amelissa (Right)	22
Figure 4-2: Male Proboscis Monkey, Bako National Park	33
Figure 4-3: Visual Analysis on Existing Proboscis Monkey's	
Character Design	35
Figure 4-4: Video Analysis – "Be a Vegetarian"	36
Figure 4-5: Video Analysis – "Switch"	37
Figure 4-6: Video Analysis – "The Red Heels"	38
Figure 4-7: Video Analysis – "Pocoyo"	39
Figure 4-8: Video Analysis – "The Secret of Kells"	40
Figure 5-1: Character Developments	46
Figure 5-2: Finalize Design of Main Character	47
Figure 5-3: Finalize Design of Minor Character	48
Figure 5-4: Background Designs	49
Figure 5-5: Flashback Background Design	50
Figure 5-6: Storyboard	53

Figure 5-7: Animatic	54
Figure 5-8: Experimental on Illustration Techniques	55
Figure 5-9: Experimental on Background	56
Figure 5-10: Experimental on Animation Techniques	57
Figure 5-11: Walk Cycle	59
Figure 5-12: Humorous Atmosphere	60
Figure 5-13: Sound Editing / Synchronizing	61
Figure 6-1: Displaying Animation for the Target Audiences	64
Figure 6-1: Validation of Animation	64

# LIST OF GRAPHS

Graph 4-1: The age of respondents	24
Graph 4-2: The gender of respondents	25
Chart 4-1: Public responses on recognition towards Proboscis Monkey	25
Chart 4-2: Public responses on types of video they had watched about Proboscis Monkeys	26
Chart 4-3: Public responses on common knowledge about Proboscis Monkeys	27
Chart 4-4: Public responses on the most favorable types of Proboscis Monkey's character	28
Chart 4-5: Public responses on the most favorable visual styles on animation	29
Chart 4-6: Public responses on the most effective way to present information about Proboscis Monkey	30
Graph 4-3: Public responses on the preference types of the audio	31
Chart 4-7: Public responses on the preference types of the colours	32

## ABSTRACT

According to IUCN Red List, proboscis monkey had been listed as endangered species since year 2000. The aim of this research is to disclose information about the endangered crisis of the proboscis monkeys through twodimensional animation application method. This study uses qualitative methods to analyse the existing two-dimensional animation in terms of illustration techniques and storyline. Based on the research, a two-dimensional animation entitled 'I Met Mr.Probo' was produced. This animation is one of the efforts to bring awareness to the public about the endangered crisis of the proboscis monkeys.

### ABSTRAK

Monyet Belanda telah direkodkan sebagai spesis haiwan yang terancam sejak tahun 2000 menurut data daripada *IUCN Red List*. Kajian ini bertujuan untuk mendedahkan informasi berkaitan monyet Belanda melalui animasi 2D (Dua Dimensi). Kajian ini menggunakan kaedah kualitatif dengan menganalisi animasi 2D yang sedia ada dari segi teknik illustrasi dan jalan cerita. Hasil daripada kajian yang telah dijalankan, animasi 2D yang bertajuk *'I Met Mr. Probo'* telah dihasilkan. Animasi ini merupakan salah satu usaha untuk memberi kesedaran kepada masyarakat umum mengenai krisis kepupusan monyet Belanda.

#### **CHAPTER 1**

#### INTRODUCTION

### **1.0 Background Study**

The Proboscis Monkey which is known as "*Monyet Belanda*" in Malay is the endemic mammal in Borneo. This species of monkey considered unique in the family of primate and fall under the colobines group. They are widely known through their bizarre physical appearance, especially their huge body, bloated stomach and the droopy long nose. Thus, they gained other name such as "*orang Belanda*" or "*Dutchman*". The mammals under the colobines group have complex stomachs and have difficulty in adapting to the new environment. This phenomenon affects their capability to survive in more open place or man-made environment. Even though they difficult to be spotted in different places of the island rainforest due to their limited distribution. Although they could be found at mangrove or coastal swamp forest, it is still hard to spot them.

There is unusual system of Proboscis Monkey's stomach in which it contains a vast amount of bacteria that could ferment their eaten food. The bacteria can help them get energy from leaves and deactivate some poisons in their food. However, they couldn't eat highly digestible food such as sweet and juicy fruits or easily accessible rich proteins insects that could make them died because of stomach bloat. Therefore, the Proboscis Monkeys have few choices of food even though there are leaves everywhere in the forest. This is one of the reasons they couldn't live out of their habitual place and or else facing survival crisis. Besides, the deforestation of mangrove forests or their other natural habitat contributes to their loss of home. Another survival crisis of Proboscis Monkeys is the crocodiles that like to hunt for the mammal since of the species sharing the same habitat which is the swamps areas. According to the Borneo Post Online (2012), the populations of crocodiles in Sarawak have been growing rapidly and in average there are six crocodiles per ten kilometer. The rapid growth of the crocodiles contributes to the life-threatening of the Proboscis monkeys.

In order to spread information about the crisis of the endangered Proboscis Monkeys and to raise awareness among the members of society, animation is one of the digital methods that able to transmit the information effectively to the target audience. According to Steven Withrow (2009), animation brings life to the still images. A combination of still images or frames in sequences shows the illusion of movement. Animation is also able to reach the audience's mind and mentality. Besides, a deeper level of animation is able to show and express the message they want to convey to the audiences (Andrew Selby, 2009, p.6). Animation capable to influence people mind in term of the message delivery or awareness campaign compare to still images or text. Thus, through animation with the combination of images, audio, text and motion, it is expected to give more impact to the public.

# **1.1 Problem Statements**

NOT EVALUATED	DATA	CONCERN	THREATENED	VULNERABLE	<endangered></endangered>	CRITICALLY	EXTINCT IN THE WILD	EXTINC
NE	DD	LC	NT	VU	<b>IN</b>	CR	EW	EX
Summary	Classifica	tion Scheme	s Images	& External Link	Bibliography	Full Account	1	
Taxonomy [top] Kingdom	Phylum	Class		)rder	Family			
	CHORDATA	MAMMA		RIMATES	CERCOPITHECIE	DAE		
Scientific Name:	Nasalis la	rvatus ssp. lar	vatus					
Species Authority								
Year Published: Assessor/s:	2008 Meijaard, I	E. Niiman, V.	& Supriatna.	J.				
Assessor/s:	Meijaard, I	E., Nijman, V.	& Supriatna,	J.				
Reviewer/s:	Mittermeie	r, R.A. & Rylar	nds, A.B. (Pri	mate Red List Au	ithority)			
Contributor/s:								
range, and ongoin	g hunting and	habitat destru	ction continu	e to threaten mo	oulation reductions a st populations. Num erations (approxima	bers have		
Geographic Ra	nge [top]							
Range Map:	Click here	to open the m	nap viewer ar	nd explore range.	3			
Population [top]								
Population Trend:	🔶 Decre	asing						
Jabitat and East								
Habitat and Eco	blogy [top]						-	

Figure 1-1: Endangered Statement of Proboscis Monkeys

**Figure 1-1** shows the endangered statement of Proboscis Monkeys. Based on the statement above, the populations of the Proboscis Monkeys reduce less than 80% but more than 50% over the past 36 to 40 years. The deforestation is the main threat caused them lost their habitat. The logging and forest burning, especially in Indonesia, which contains high rates of endemic species, including Proboscis Monkeys be faced with incalculable loses due to the continued unabated of massive destroying (OFI, 2011).

There is lack of promotion and awareness information in public to spread the awareness regarding the Proboscis Monkeys. Therefore, the Proboscis Monkeys Project (2002-2013) manages to collect funds to buy and get a spot on MTV Network to attract more people to visit their website. The purposed of this website is to create awareness about Proboscis Monkeys and also to support the Borneo Aid and prevent deforestation. The organization needs contribution of appealing and creative media to give awareness to the public.

## 1.2 Objective

- i. To identify the crisis of the Proboscis Monkeys.
- ii. To analyze the most suitable storyline and technique of animation that best explains the endangered crisis of the Proboscis Monkeys.
- iii. To produce a short animation for The Proboscis Monkeys conservation project.
- iv. To validate the effectiveness of the animation final outcome.

### **1.3** Significance of Research

This research is focus on the visualization of 2D animation in order to present an awareness campaign to the public regarding the crisis of Proboscis Monkey. The animation is integrating the visual element and storyline to make the awareness campaign more attractive to the audiences.

## 1.4 Hypothesis

The Proboscis Monkeys are among the unusual species in the world and it also contain small amount of population which can only survive in Borneo. By producing a short animation, it can create awareness regarding Proboscis Monkeys survival crisis and help in effort to conserve them.

### 1.5 Limitation

Develop and produce an animation is a team production that require different area of expertise such as director, character designer, animators, script writer, music composer, storyboard artist, background painter or layout artist and many more. Therefore, the duration to complete the whole animation is longer and expertise such as music composer is required to create mood for the animation.

# **1.6** Scope of Research

This research is focusing on the visual technique and storyline to deliver the messages about the endangered factors of the proboscis monkeys through short animation. The target audiences are the Malaysians ages 10 and above. Data will be collected from respondents via online survey.

#### **CHAPTER 2**

### LITERATURE REVIEW

#### 2.0 Introduction

In this chapter, researcher discusses the literature reviews collected from books, journals, internet and newspapers. This is to enable researcher to correlate the previous or current data with researcher's studies, and also providing guidance for other related references.

## 2.1 Proboscis Monkeys

"The species is listed as Endangered as it has undergone extensive population reductions across its range, and ongoing hunting and habitat destruction continue to threaten most populations. Numbers have declined by more than 50% (but probably less that 80%) over the past 3 generations (approximately 36-40 years)."

"...the major cause for its recent decline is thought to be habitat destruction."

"In some portions of its range its legal protection suffers from governmental and institutional deficiencies, including lack of conservation funds and knowledge, and poor and inappropriate management (Meijaard and Nijman 2000)."

(Meijaard, E., Nijman, V. & Supriatna, J. 2008)

Based on the *IUCN Red List of Threatened Species* (2012), the Proboscis Monkeys have been listed as endangered animal since 2000. The situation of the Proboscis Monkeys become worst in the year 2007 (Medici, 2012).

"Proboscis monkeys cannot top up their diet with sweet, succulent fruits either, because of the problem of bloat. So the other half of their diet is made up of non-sweet fruits and seeds, such as those of the nutmeg, legume and palm families. These too are often hard to find, especially during certain months of the year when few trees are producing fruits. So all in all, proboscis monkeys are faced with "leaves, leaves are everywhere but not a lot to eat". "

(Bennett, E.L. and Gombak, F., 1993, p.31)

Proboscis Monkey is the only primate that unable to take ripe banana as food because of their abnormal stomach doesn't allow them to eat sweet and easy digestible food which will cause them death from bloat. ".....mangroves are some of the most productive areas in the entire world, and are of enormous value to Man. So their destruction is highly damaging to Man's interests, as well as destroying the unique wildlife there."

"The proboscis monkey's other main habitat is peat swamp forest. Peat swamps are accessible and full of valuable timber, so they have been heavily logged. If only a few trees are taken out, proboscis monkeys seems able to survive, such as in Tanjung Puting National Park, Kalimantan. In some areas, however, logging is heavy and followed by treatment of the forest to try to enhance the next timber crop. Treatment involves poisoning non-timber trees, many of which are good food trees for the animals. Thus, the food supply is devastated and the animals starve."

#### (Bennett, E.L. and Gombak, F., 1993, p.53)

"IPPL has received a report that AT LEAST 50 of the newly-caught monkeys died at the zoo. Proboscis Monkeys are known to be difficult to keep alive in captivity because of their specialized diets and the stress of captive living."

(Proboscis Monkeys Project, 2002-2007)

Mangroves, peat swamps and riverine in Borneo is the main habitat of the proboscis monkeys. However, these places have valuable treasures to the human; they do the logging activities since decades ago and cause the proboscis monkeys loss their home. Besides, most of the Proboscis Monkeys caught will become depressed and eventually have a low survival rate. "The animal by far the most likely to eat proboscis monkeys is the estuarine crocodile. This is a voracious killer of anything that moves in rivers, and within Borneo, estuarine crocodile and proboscis monkeys generally live in the same sites, mangroves and riverine areas close to the coast."

(Bennett, E.L. and Gombak, F., 1993, p.42)

*"KUCHING: Populasi buaya di Sungai Bako dipercayai meningkat dua kali ganda berbanding awal tahun 80-an.* 

Mengimbas kembali tahun 1982, tiga ekor buaya ditemui bagi setiap 10 kilometer sungai, namun sejak akhir-akhir ini bilangannya meningkat kepada enam ekor, kata Pemangku Timbalan Pengurus Besar Sarawak Forestry Corporation (SFC) Bahagian Pemuliharaan Biodiversiti dan Kawasan Lindungan, Oswald Braken Tisen."

#### (Borneo Post online, 2012, June 30)

"WILDLIFE officials in Malaysian Borneo are pushing to have its saltwater crocodiles removed from a list of endangered animals, saying the reptile's numbers have strongly recovered in recent years.

Deputy director of the Sabah Wildlife Department Augustin Tuuga told AFP that a survey of the Crocodylus porosus population showed there were about 11,000 to 15,000 in the state compared to 1,000 to 5,000 two decades ago."

(The Brunei Times, 2010, July 15)