



## PROJECT REPORT

# Comparing Inkscape and KolourPaint Graphic Applications in Improving Colour and Image Quality on Painting

Ellena Septiani Suntoro

08.02.0012

2013

	<b>PERPUSTAKAAN</b>
NO. INV : 226 / S / IK / 0.1	
TGL : 16 / 01 / 2014	
PARAF :	

FACULTY OF COMPUTER SCIENCE  
SOEGIJAPRANATA CATHOLIC UNIVERSITY

Jl. Pawiyatan Luhur IV/1, Bendan Duwur, SEMARANG 50234

Telp. 024-8441555 (hunting) Web: <http://www.unika.ac.id>

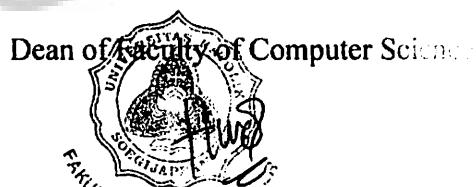
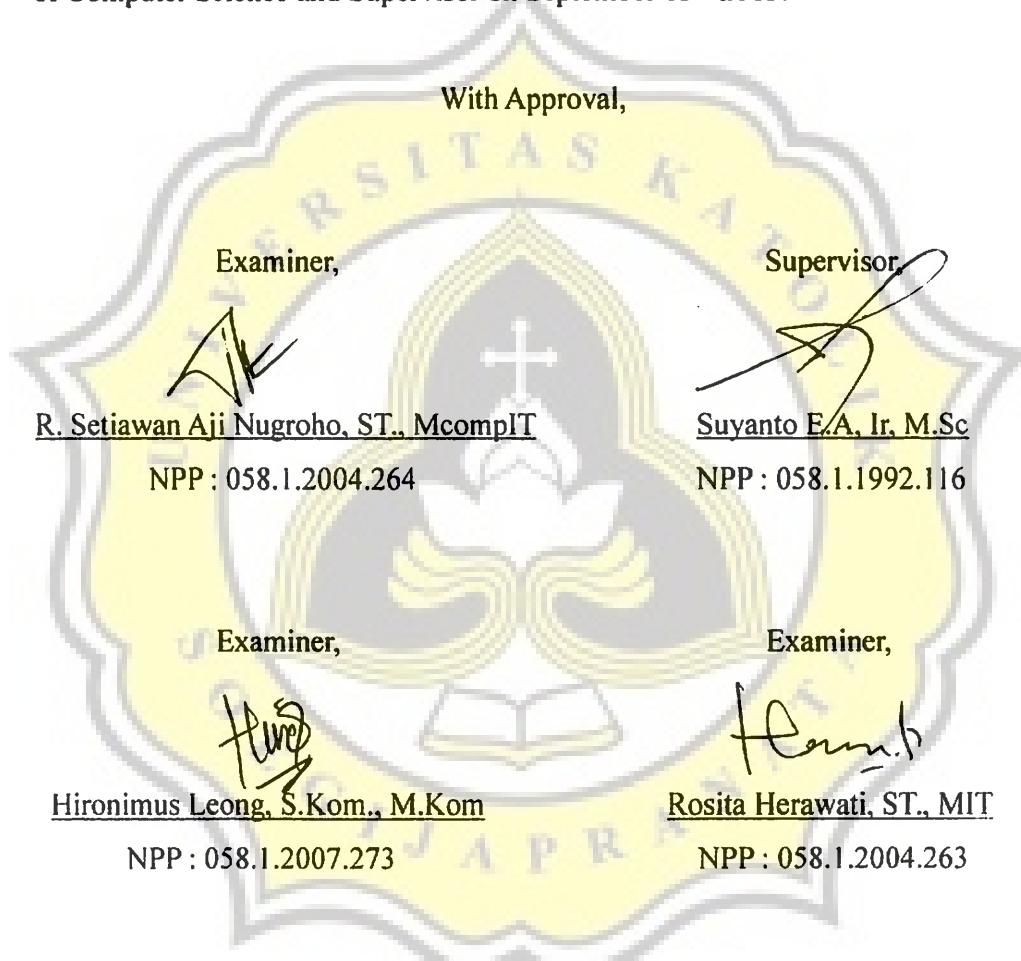
Email: [ikom@unika.ac.id](mailto:ikom@unika.ac.id)

# APPROVAL AND RATIFICATION PAGE

## PROJECT REPORT

### Comparing Inkscape and KolourPaint Graphic Applications In Improving Colour and Image Quality on Painting

This project report has been approved and ratified by the Dean of faculty of Computer Science and Supervisor on September 13<sup>th</sup> 2013.



## **STATEMENT OF ORIGINALITY**

Here by signed,

Name : Ellena Septiani Suntoro

ID : 08.02.0012

Certify that this project was made by myself and not copy or plagiarizes from other people, except that in writing expressed to the other article. If it is proven that this project was plagiarizes on copy the other, I am ready to accept a sanction.

Semarang, September 13<sup>th</sup> 2013



Ellena Septiani Suntoro

08.02.0012

## **ABSTRACT**

*Graphic application is a development application which it can help peoples to paint with computer device. There are many kind of graphic application, the examples are Inkscape and KolourPaint.*

*Inkscape is a Vector Graphic Application which the painter can change the image details without force the old image or old worksheet and Inkscape is support Scalable Vector Graphic (SVG) standard. Layers, colours, and measurement are the Scalable Vector Graphic (SVG) image standard parameters.*

*KolourPaint is a basic graphic application which the painter can paint with familiar tools and it is easy to learn. KolourPaint is similar with Windows application, it called Microsoft Paint. KolourPaint can process the simple tasks which it addressed to beginners.*

## **FOREWORD**

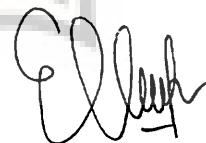
Thank God, I have been finished this project with title:  
**Comparing Inkscape and KolourPaint Graphic Applications in Improving Colour and Image Quality on Painting.**

In this opportunity, writer would thanks to:

1. My Father, Mother, Brother, Grandmother and all my family for their prayers and supports.
2. My Supervisor Mr. Suyanto E.A, Ir, M.Sc and All Lecturers in Faculty of Computer Science for their support.
3. My beloved Luckya Widjaja, Diar Mayangsari, S.Psi., Dyah Kusumaningtyas, S.Kom., Ferdyanto Handoyo, S.Kom., and all my friends who always praying and supporting.
4. FACULTY OF COMPUTER SCIENCE SOEGIJAPRANATA CHATOLIC UNIVERSITY.

Finally, writer apologizes that this project is not perfect. Hopefully, this project may be useful for everyone.

Semarang, September 13<sup>th</sup> 2013



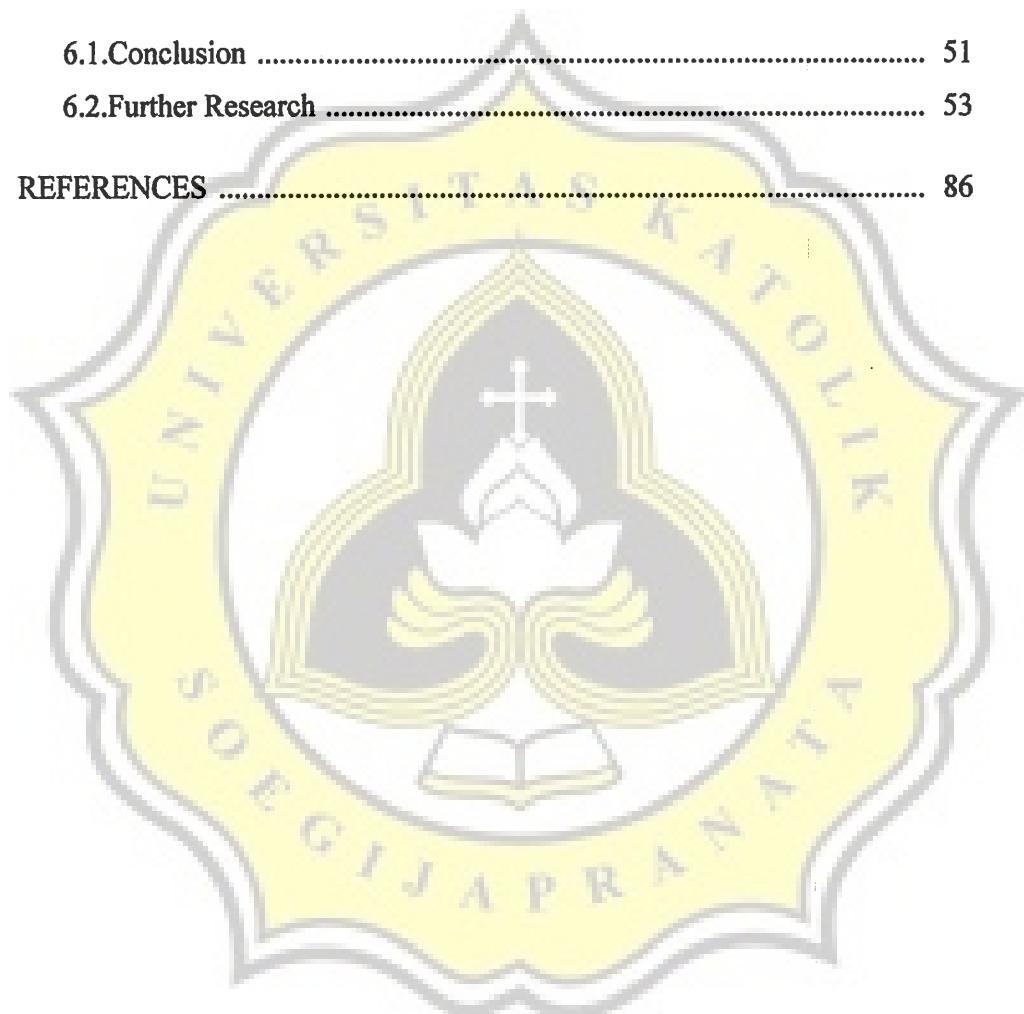
Ellena Septiani Suntoro

08.02.0012

# TABLE OF CONTENT

COVER .....	i
APPROVAL AND RATIFICATION PAGE .....	ii
STATEMENT OF ORIGINALITY .....	iii
ABSTRACT .....	iv
FOREWORD .....	v
TABLE OF CONTENT .....	vi
TABLE OF FIGURE .....	viii
TABLE OF TABLE .....	xv
<b>CHAPTER I: INTRODUCTION .....</b>	1
1.1.Background .....	1
1.2.Scope .....	2
1.3.Objective .....	3
<b>CHAPTER II: LITERATURE STUDY .....</b>	4
2.1.Application's Installation .....	4
2.2.Application's Features .....	11
<b>CHAPTER III: PLANNING .....</b>	16
3.1.Research Metodologies .....	16
3.2.Project Management .....	17
<b>CHAPTER IV: ANALYSIS AND DESIGN .....</b>	18
4.1.Analysis .....	18

4.2.Design .....	19
<b>CHAPTER V: IMPLEMENTATION AND TESTING .....</b>	<b>26</b>
5.1.Implementation .....	26
5.2.Testing .....	26
<b>CHAPTER VI: CONCLUSION AND FURTHER RESEARCH .....</b>	<b>51</b>
6.1.Conclusion .....	51
6.2.Further Research .....	53
<b>REFERENCES .....</b>	<b>86</b>



## TABLE OF FIGURE

Figure 2.1. Ubuntu Software Center Menu's Display .....	5
Figure 2.2. Graphics Menu's Display .....	5
Figure 2.3. Drawing Menu's Display .....	6
Figure 2.4. Inkscape Application Install Option's Display .....	6
Figure 2.5. Password Authentication's Display .....	7
Figure 2.6. Inkscape Worksheet's Display .....	7
Figure 2.7. Ubuntu Software Center Menu's Display .....	8
Figure 2.8. Graphics Menu's Display .....	8
Figure 2.9. Painting & Editing Menu's Display .....	9
Figure 2.10. KolourPaint Application Install Option's Display .....	9
Figure 2.11. Password Authentication's Display .....	10
Figure 2.12. KolourPaint Worksheet's Display .....	10
Figure 2.13. Fill and Stroke's Display .....	11
Figure 2.14. Top Menu Bar's Display .....	13
Figure 2.15. Left Menu Bar's Display .....	13
Figure 2.16. Left Menu Bar's Dsplay .....	15
Figure 4.1. Workflow .....	18
Figure 4.2. Apple Sample Object .....	20

Figure 4.3. Orange Sample Object .....	21
Figure 4.4. Bited Apple Sample Object .....	22
Figure 4.5. Indonesian Artist Sample Object .....	23
Figure 4.6. Red Apple Sample Object .....	24
Figure 4.7. Orange Sample Object .....	24
Figure 4.8. Bited Apple Sample Object .....	25
Figure 5.1. First Step To Make a Apple Basic Shape .....	27
Figure 5.2. Making A Light Red Duplicate Layer Step .....	28
Figure 5.3. Rezising A Duplicate Layer Step .....	28
Figure 5.4. Fill With Gradient Colour Step .....	29
Figure 5.5. Setting Gradient Line Step .....	29
Figure 5.6. White Rectangle Shape Effect .....	30
Figure 5.7. White Curve Rectangle Shape Step .....	30
Figure 5.8. White Curve Vertical Rectangle Shape Step .....	31
Figure 5.9. Grouping Apple Body Step .....	31
Figure 5.10. Circle Shadow Step .....	32
Figure 5.11. Placing A Shadow Step .....	32
Figure 5.12. Make A Brown Vertical Rectangle Shape Step .....	33
Figure 5.13. Setting The Stalk Shape Step .....	33
Figure 5.14. Placing The Stalk Shape Step .....	34
Figure 5.15. Making Leaf Border Step .....	34

Figure 5.16. Filling Green Colour As Leaf Step .....	35
Figure 5.17. Making a Parent Branch Shape Step .....	35
Figure 5.18. Making Child Branches Shapes Step .....	36
Figure 5.19. Filling with Gradient Colour in Leaf Shape Step .....	36
Figure 5.20. Setting the Gradient Line Step .....	37
Figure 5.21. Last Grouping Step .....	37
Figure 5.22. Final Result .....	38
Figure 5.23. First Orange Shape Step .....	38
Figure 5.24. Making A Soft Yellow Straight Line Step .....	39
Figure 5.25. Making A Crescent Shape Step .....	39
Figure 5.26. Filling With Soft Yellow Colour Step .....	40
Figure 5.27. Making a Small Brown Circle Shape Step .....	40
Figure 5.28. Making a Curve Line as a Leaf Step .....	41
Figure 5.29. Making a Second Curve Line Step .....	41
Figure 5.30. Making a Second Leaf Shape Step .....	42
Figure 5.31. Making a Parent Branch Step .....	42
Figure 5.32. Making the Child Branches Step .....	43
Figure 5.33. Making a Second Parent Branch Step .....	43
Figure 5.34. Making the Child Branches Step .....	44
Figure 5.35. Filling with Green Colour Step .....	44
Figure 5.36. Making a New Orange Circle Step .....	45

Figure 5.37. Making the Curve Line In The Bottom Step .....	45
Figure 5.38. Making a Straight Yellow Line Step .....	46
Figure 5.39. Filling with Yellow Colour Step .....	46
Figure 5.40. Erasing the Unused Area Step .....	47
Figure 5.41. Making Orange Fruit Flesh Texture Step .....	47
Figure 5.42. Making Some Leafs Step .....	48
Figure 5.43. Making Parent Branches Step .....	48
Figure 5.44. Making Child Branches Step .....	49
Figure 5.45. Fill With Green Colour Step .....	49
Figure 5.46. Making Background Area Step and the Final Result .....	50
Figure 6.1. Making Dark Red Circle Shape Step .....	53
Figure 6.2. Setting Left and Right Side Step .....	54
Figure 6.3. Make a Small White Circle Step .....	54
Figure 6.4. The Grouping Step .....	55
Figure 6.5. Making The Second Small Circle Step .....	55
Figure 6.6. The Grouping Step .....	56
Figure 6.7. Making The Red Duplicate Layer .....	56
Figure 6.8. Setting The Duplicate Size .....	57
Figure 6.9. Filling Gradient Colour .....	57
Figure 6.10. Setting The Gradient Line Place .....	58
Figure 6.11. Making a Flat Brown Circle .....	58

Figure 6.12. Making a Flat Dark Brown Circle .....	59
Figure 6.13. Making a Vertical Rectangle .....	59
Figure 6.14. Setting The Curve Line .....	60
Figure 6.15. Making a Duplicate Layer of Apple Body .....	60
Figure 6.16. Filling with White Colour .....	61
Figure 6.17. Placing The Duplicate Layer into Bottom .....	61
Figure 6.18. Setting The Line and Fill with Gradient Peach Step .....	62
Figure 6.19. Setting Every Line Perfectly .....	62
Figure 6.20. Final Result .....	63
Figure 6.21. Open The Sample Picture Step .....	63
Figure 6.22. Making The Outer Line Face .....	64
Figure 6.23. Making The Right Eyebrow Step .....	64
Figure 6.24. Making The Left Eyebrow Step .....	65
Figure 6.25. Making The Outer Line Lip .....	65
Figure 6.26. Making The Outer Line of Eyes Step .....	66
Figure 6.27. Making The Outer Line of Nose Step .....	66
Figure 6.28. Making The Left Cheek Shadow .....	67
Figure 6.29. Making The Right Cheek Shadow .....	67
Figure 6.30. Making The Left Nose Shadow Step .....	68
Figure 6.31. Making The Right Nose Shadow .....	68
Figure 6.32. Making The Other Nose Shadow Step .....	69

Figure 6.33. Making The Other Nose Shadow Step .....	69
Figure 6.34. Making The Head Shadow Step .....	70
Figure 6.35. Making The Left Nose Shadow Step .....	70
Figure 6.36. Making The Right Nose Shadow Step .....	71
Figure 6.37. Setting The Eyebrow Lines Step .....	71
Figure 6.38. Making The Final Eyebrow Lines Step .....	72
Figure 6.39. Making The Top Teeth Lines Step .....	72
Figure 6.40. Making The Teeth Lines Step .....	73
Figure 6.41. Setting The Teeth Lines Step .....	73
Figure 6.42. Making The Right Eyeball Lines Step .....	74
Figure 6.43. Making The Left Eyeball Lines Step .....	74
Figure 6.44. Making The Eyelash Lines at Left Eye Step .....	75
Figure 6.45. Making The Eyelash Lines at Right Eye Step .....	75
Figure 6.47. Making The 'Blush On' Effect as First Step .....	76
Figure 6.48. Making The 'Blush On' Effect as Second Step .....	76
Figure 6.49. Making The 'Blush On' Effect as Third Step .....	77
Figure 6.50. Making The 'Blush On' Effect as Fourth Step .....	77
Figure 6.51. Making The Skin Colour in Background .....	78
Figure 6.52. Making The Top Eyelines Step .....	78
Figure 6.53. Filling The Pink Colour in Lip Area .....	79
Figure 6.54. Filling The White Colour in Teeth Area .....	79

Figure 6.55. Filling with Dark Brown Colour in Eyebrow Area .....	80
Figure 6.56. Making The Pupil Shapes Step .....	80
Figure 6.57. Filling with Dark Brown Colour in Eyeball Area .....	81
Figure 6.58. Making The First Other Shadow Step .....	81
Figure 6.59. Making The Second Other Shadow Step .....	82
Figure 6.60. Making The Left Head Shadow Step .....	82
Figure 6.61. Making The Second Head Shadow Step .....	83
Figure 6.62. Making The First Gradient Shadow .....	83
Figure 6.63. Making The Second Gradient Shadow Step .....	84
Figure 6.64. Making The Third Gradient Shadow Step .....	84
Figure 6.65. Final Result .....	85

## TABLE OF TABLE

Table 3.1. Schedule Project Table ..... 17

