



Bachelor Thesis

by

Your Name

This thesis submitted for the degree of

Bachelor of science (B. Sc.)

on the faculty of digital media

Here are some cool title for your amazing thesis

Degree course: Computer Science in media, Bachelor

Matriculation number: 123456

University supervisor: Prof. Dr. Uwe Hahne

External supervisor: Not Prof. Patrick Kaserer

submitted 30.11.2024

Abstract

```
cite:
(Hahne, 2012).
(Hahne, 2012, p. 11).
2012.
Hahne.
[Hah12]
(1)
[1]
multiple cites:
[1-3]
(Hahne, 2012; Jane, 2024; Max, 2023)
Emph text
```

Bold text

Text size

Text size

Text size

math:

When it comes to math, you use \$ you math \$:

$$\begin{bmatrix} r_{11} & r_{12} & r_{13} & p_x \\ r_{21} & r_{22} & r_{23} & p_y \\ r_{31} & r_{32} & r_{33} & p_z \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

$$X, \theta, \phi \to RGB, \sigma$$

some inline examble:

$$T(t) = \exp\left(-\int_{t_n}^t \sigma(r(s)) ds\right)$$

Where $\sigma(r(s))$ is the volume density along the ray depending on the position r(s) on ray r(t) = o + td. "The Function T(t) denotes the accumulated transmittance along the ray from tn to t, i.e., the probability that the ray travels from tn to t without hitting any other particle." product:

$$T_n = \prod_{i=1}^n \exp \left(-\sigma_i \cdot \Delta_{s_i} \right)$$

scripting:

1 + 2 = 3

1 + 2 = 3

abc

This text has some color

- List1
- List2
- List3



Figure 1: This Image has 20% width. You can also use other types like mm, cm, em, pt

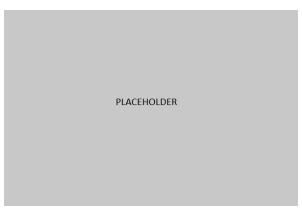


Figure 2: with 20em

This is a reference to the placeholder image: Figure 1 This is a reference to the implementation: Section 4

This is a reference to the implementation with name: Implementation 4

table with alignment:

Title 1	Title 1	Title 1
Column 1	A 24324	B 20.3412
Column 2	A 00498	B 58.9121
Column 4	A 04195	B 389.1807
Column 5	A 18757	194.9974
Column 6	A 14663	B 1.6392

grid with variables:



Image 1 Image 2 Image 3 Image 4 Image 5 Image 5 Image 7 Image 8 Image 9 Image, 10 Image, 11 Some Pseudocode. You need to import Lovelace for this. Typst has more libraries for pseudocode and other things.

```
{\tt 1} \  \  \, \textbf{Function} \  \, \text{compute\_some\_stuff(a, b, list, threshold):} \\
```

```
Set scale to 2.0
2
     result = 0
3
     For x in list:
4
        sum list with x
5
        If result*scale > threshold
6
        | return: result
7
       End If
8
     End For
9
    return: max value from list
10
```

11 **End**

Zusammenfassung

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum defuturum, quas natura non depravata desiderat. Et quem ad me accedis, saluto: 'chaere,' inquam, 'Tite!' lictores, turma omnis chorusque: 'chaere, Tite!' hinc hostis mi Albucius, hinc inimicus. Sed iure Mucius. Ego autem mirari satis non queo unde hoc sit tam insolens domesticarum rerum fastidium. Non est omnino hic docendi locus; sed ita prorsus existimo, neque eum Torquatum, qui hoc primus cognomen invenerit, aut torquem illum hosti detraxisse, ut aliquam ex eo est consecutus? - Laudem et caritatem, quae sunt vitae sine metu degendae praesidia firmissima. – Filium morte multavit. – Si sine causa, nollem me ab eo delectari, quod ista Platonis, Aristoteli, Theophrasti orationis ornamenta neglexerit. Nam illud quidem physici, credere aliquid esse minimum, quod profecto numquam putavisset, si a Polyaeno, familiari suo, geometrica discere maluisset quam illum etiam ipsum dedocere. Sol Democrito magnus videtur, quippe homini erudito in geometriaque perfecto, huic pedalis fortasse; tantum enim esse omnino in nostris poetis aut inertissimae segnitiae est aut fastidii delicatissimi. Mihi quidem videtur, inermis ac nudus est. Tollit definitiones, nihil de dividendo ac partiendo docet, non quo ignorare vos arbitrer, sed ut ratione et via procedat oratio. Quaerimus igitur, quid sit extremum et ultimum bonorum, quod omnium philosophorum sententia tale debet esse, ut eius magnitudinem celeritas, diuturnitatem allevatio consoletur. Ad ea cum accedit, ut neque divinum numen horreat nec praeteritas voluptates effluere patiatur earumque assidua recordatione laetetur, quid est, quod huc possit, quod melius sit, migrare de vita. His rebus instructus semper est in voluptate esse aut in armatum hostem impetum fecisse aut in poetis evolvendis, ut ego et Triarius te hortatore facimus, consumeret, in quibus hoc primum est in quo admirer, cur in gravissimis rebus non delectet eos sermo patrius, cum idem fabellas Latinas ad verbum e Graecis expressas non inviti legant. Quis enim tam inimicus paene nomini Romano est, qui Ennii Medeam aut Antiopam Pacuvii spernat aut reiciat, quod se isdem Euripidis fabulis delectari dicat, Latinas litteras oderit? Synephebos ego, inquit, potius Caecilii aut Andriam Terentii quam utramque Menandri legam? A quibus tantum dissentio, ut, cum Sophocles vel optime scripserit Electram, tamen male conversam Atilii mihi legendam putem, de quo Lucilius: 'ferreum scriptorem', verum, opinor, scriptorem tamen, ut legendus sit. Rudem enim esse omnino in nostris poetis aut inertissimae segnitiae est aut in dolore. Omnis autem privatione doloris putat Epicurus.

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1. Introduction

1.1. Depth1

1.1.1. Depth2

1.1.1.1. Depth3

2. Related Work

3. Method

4. Implementation

5. Conclusion

6. Discussion

7. Use of AI in this thesis

Bibliography

Hahne, U. (2012). Real-time depth imaging. https://doi.org/10.14279/DEPOSITONCE-3244