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My Master's Thesis and How It Was Won

Master's Thesis submitted in partial fulfillment of the requirements for the degree of Master of Science in Technology.

Helsinki, May 1, 2016

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Abbreviations

DC Direct current

UI User Interface

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Chapter 1

Introduction

Introduction.

1.1 Background

Use your brain while doing the thesis (Figure 1.1). When citing, dig out the original reference (Geldard, 1960), even when talking about UIs (Minsky, 1984). You can also refer to some excellent thesis works (Jyrinki, 2004).

There was a laser (Table 1.1)! And ISO standards (ISO, 1995).

Table 1.1: The laser sensor head settings.

Tracking Filter	Slow
Velocity Decoder	DC
Velocity Range	25 mm/s/V
Velocity Filter	16.0 kHz

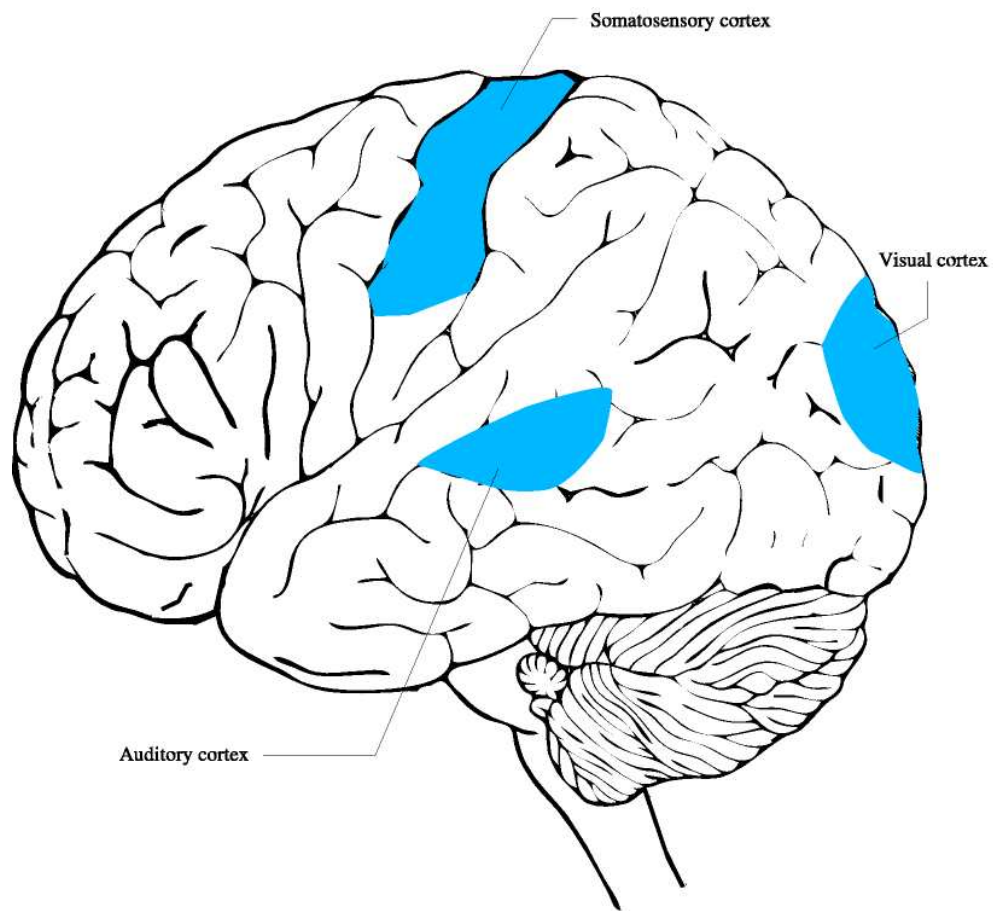


Figure 1.1: Diagram of the human brain, showing the main sensory receiving areas.
(modified from Goldstein, 2001)

Chapter 2

Measurement Facilities

You should name the chapters yourself.

Chapter 3

Study

I studied.

3.1 Methods

There were some methods. And magic numbers, see Table [3.1](#). I also did some serious coding - the code is included in Appendix [A](#).

Table 3.1: Table caption.

The first series	1	The second series	1	The third series	1
of numbers	2	of numbers	2	of numbers	2
Tables	3	are	3	fun	3
	4		4		4
	5		5		5
	6		6		6
	7		7		7
	8		8		8
	9		9		9
	A		A		A
	B		B		B

3.2 Results

Results were very very good. I used χ^2 (Equation [3.1](#)).

$$\chi^2 = \frac{\Sigma(O - E)^2}{E} \tag{3.1}$$

Chapter 4

Analysis

...

Chapter 5

Conclusions

...

REFERENCES

- Geldard Frank A. 1960. Some Neglected Possibilities of Communication. *Science*, **131**, 1583–1588.
- Goldstein E. Bruce. 2001. *Sensation and Perception*. 6th edn. Wadworth Publishing Company.
- ISO. 1995. *Mechanical vibration - Guidelines for the measurement and the assessment of human exposure to hand-transmitted vibration*. International standard ISO 5349:1986. International Organization for Standardization, Geneva, Switzerland.
- Jyrinki Timo. 2004. *Perception of Small Device Vibration Characteristics - Test Facilities Setup and Study*. Master's Thesis, Helsinki University of Technology, Department of Electrical and Communications Engineering.
- Minsky Margaret R. 1984. Manipulating simulated objects with real-world gestures using a force and position sensitive screen. *Pages 195–203 of: Proceedings of the 11th annual conference on Computer graphics and interactive techniques*. ACM Press.
- The GNU Project. 2004. *GNU Compiler Collection*. Internet. <http://gcc.gnu.org/>, checked September 3rd, 2004.

Appendix A

Haxör program

I coded some hardcore C code. You can even compile it ([The GNU Project, 2004](#)).

```
/* hardcore.c
 *
 * Outputs the meaning of liff.
 */

#include <stdio.h>

int main(void)
{
    printf("42\n");
    return 0;
}
```