

**Experimental Characterization of some
new technology we have to develop,
with applications in space walks**

Master Thesis

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Declaration of Integrity

I hereby confirm,

1. That I have written the Masters thesis at hand independently, that I have not used any sources or materials other than those stated, nor availed myself of any unauthorized resources, and
2. That I have not submitted this Masters thesis in any form as an examination paper before, neither in this country, nor abroad, and
3. That the electronic copy of this Masters thesis and the printed versions are identical.

Wiener Neustadt,

Date

Signature

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Nomenclature

Symbols

a	distance	m
P	power	W (Js^{-1})
ω	angular frequency	rads^{-1}

Abbreviations

AC	Alternate current
DC	Direct current
DLR	Deutsches Zentrum für Luft- und Raumfahrt
EP	Electric propulsion
EVA	Extra Vehicular Activity
HOKA	Hofer-Karrer current monitor
ILEA	Institute for Power Electronics and Electrical Drives
IPG	Inductively heated Plasma Generator
IPM	Institute for Problems of Mechanics, Moscow
IRS	Institute of Space Systems, Stuttgart
ISS	International Space Station
LAEPT	Laboratoire Arc Electrique et Plasma Thermiques
LEO	Low Earth Orbit
MPD	Magneto-Plasma Dynamics
NASA	National Aeronautics and Space Administration
PEEK	Polyether ether ketone
PPT	Pulsed Plasma Thruster
PVC	Polyvinyl chloride
PWT	Plasma Wind Tunnel
RF	Radio Frequency
SWICS	Solar Wind Ion Composition Spectrometer
TPS	Thermal Protection System
VKI	Von Karman Institute

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Chapter 1

Introduction

1.1 Section Title

In an essay, article, or book, an introduction (also known as a prolegomenon) is a beginning section which ~~states the purpose and goals~~ of the following writing. **This is generally followed by the body and conclusion.**

Keeping the concept of the introduction the same, **different documents have different** styles to introduce the written text. For example, the introduction of a *Functional Specification* consists of information that *the whole document* is yet to explain. If a Userguide is written, the introduction is about the product. *In a report, the introduction* gives a summary about the report contents. [4] non-relevant links, well, this is just some bullshit for avoiding a warning from the program and may miss relevant information if it is **not phrased** in exactly the way they expect (see Figure 1.1).

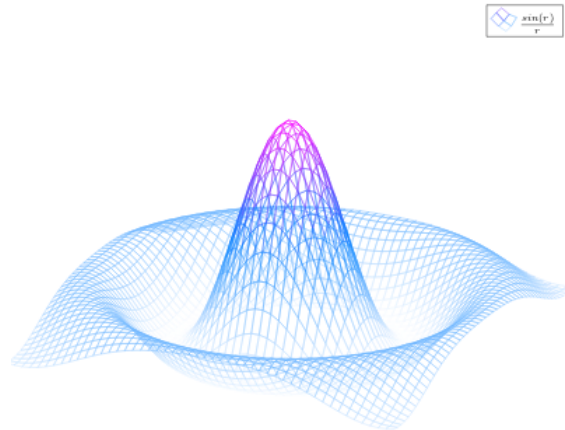


Figure 1.1: Mesh pictured with MatLab.

Notice THAT THE PLOT (BLOCKED UPPERCASE) in Figure 1.1 is obtained with the function expressed in eq. 1.1:

$$f(z) = \sin \left(\sqrt{\left(\frac{x}{\pi}\right)^2 + \left(\frac{y}{\pi}\right)^2} \right) \quad (1.1)$$

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himenaeos condimentum euismod malesuada cursus leo. Ad ad quisque ornare a tincidunt litora nibh nec condimentum nec hac platea porta quisque a blandit eros id dolor adipiscing aliquam vulputate. Fusce auctor mauris lacinia aenean mi duis laoreet turpis per convallis bibendum vel nunc in a condimentum vivamus nam vel eros ullamcorper ac urna bibendum at cubilia malesuada volutpat. Dis fames dictumst adipiscing nibh a tortor a a sapien vestibulum risus cum vestibulum consectetur.

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1.1.1 More Ipsum text

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Random random text

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Chapter 2

Theoretical background

2.1 Introduction

In an essay, article, or book, an introduction (also known as a prolegomenon) is a beginning section which states the purpose and goals of the following writing. This is generally followed by the body and conclusion (see 2.1).



Figure 2.1: Artistic view of the Milky Way

The introduction typically describes the scope of the document and gives the brief explanation or summary of the document. It may also explain certain elements that are important to the essay if explanations are not part of the main text. The readers can have an idea about the following text before they actually start reading it [3].

In technical writing, the introduction typically includes one or more standard subsections: abstract or summary, preface, acknowledgments, and foreword. Alternatively, the section labeled introduction itself may be a brief section found side-by-side with abstract, foreword, etc. (rather than containing them). In this case the set of sections that come before the body of the book are known as the front matter. When the book is divided into numbered chapters, by convention the introduction and any other front-matter sections are unnumbered and precede chapter 1. The table 2.1 is an example of referenced.

Keeping the concept of the introduction the same, different documents have different styles to introduce the written text. For example, the introduction of a Functional Specification consists of information that the whole document is yet to explain. If a Userguide is written, the introduction is about the product. In a report,

Table 2.1: Random numbers in a table

cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

the introduction gives a summary about the report contents.

2.2 Lipsum

In ancient manuscripts, another means to divide sentences in into paragraphs was a line break (newline) followed by an initial at the beginning of the next paragraph. An initial is an oversize capital letter, sometimes outdented beyond the margin of text. This style can be seen, for example, in the original Old English manuscript of Beowulf. Typography, though not commonly.[4] Modern English typography usually indicates a new paragraph by indenting the first line. This style can be seen in the (handwritten) United States Constitution from 1787. For additional ornamentation, a heder leaf or other symbol can be added to the inter-paragraph whitespace, or put in the indentation space [1].

Table 2.2: Table to test captions and labels

Col1	Col2	Col2	Col3
1	6	87837	787
2	7	78	5415
3	545	778	7507
4	545	18744	7560
5	88	788	6344

2.2.1 Paragraph description

In ancient manuscripts, another means to divide sentences in into paragraphs was a line break (newline) followed by an initial at the beginning of the next paragraph. An initial is an oversize capital letter, sometimes outdented beyond the margin of text. This style can be seen, for example, in the original Old English manuscript of Beowulf. Outdenting is still used in English typography, though not commonly.[4] Modern English typography usually indicates a new paragraph by indenting the first line. This style can be seen in the (handwritten) United States Constitution from 1787. For additional ornamentation, a heder leaf or other symbol can be added to the inter-paragraph whitespace, or put in the indentation space.

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adipiscing pulvinar nulla duis imperdiet. Arcu bibendum ac vehicula mollis condimentum ullamcorper mauris ac maecenas tempus a porta condimentum maecenas suscipit volutpat est tincidunt libero ut laoreet posuere dis. Mus ultricies pharetra suspendisse sem tempus interdum volutpat a ornare id et placerat venenatis rutrum ullamcorper habitant placerat vestibulum in.

Chapter 3

Experimental Setup

3.1 Introduction

Some meaningless text to show how citation works [2].

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Random squared text

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Chapter 4

Conclusion

In a non-fiction book, a Conclusion is an ending section which states the concluding ideas and concepts of the preceding writing. This generally follows the body or perhaps a Afterword, and the conclusion may be followed by an Epilogue, Outro, Postscript, Appendix/Addendum, Glossary, Bibliography, Index, Errata, or a Colophon.

A common English usage misconception is that a paragraph has three to five sentences; single-word paragraphs can be seen in some professional writing, and journalists often use single-sentence paragraphs.

The crafting of clear, coherent paragraphs is the subject of considerable stylistic debate. Forms generally vary among types of writing. For example, newspapers, scientific journals, and fictional essays have somewhat different conventions for the placement of paragraph breaks.

English students are sometimes taught that a paragraph should have a topic sentence or "main idea", preferably first, and multiple "supporting" or "detail" sentences which explain or supply evidence. One technique of this type, intended for essay writing, is known as the Schaffer paragraph. For example, the following excerpt from Dr. Samuel Johnson's *Lives of the English Poets*, the first sentence is the main idea: that Joseph Addison is a skilled "describer of life and manners". The succeeding sentences are details that support and explain the main idea in a specific way.

References

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Appendix A

Title of appendix A

A.1 Section title

An index (plural: usually indexes, see below) is a list of words or phrases ('headings') and associated pointers ('locators') to where useful material relating to that heading can be found in a document. In a traditional back-of-the-book index the headings will include names of people, places and events, and concepts selected by a person as being relevant and of interest to a possible reader of the book. The pointers are typically page numbers, paragraph numbers or section numbers. In a library catalog the words are authors, titles, subject headings, etc., and the pointers are call numbers. Internet search engines, such as Google, and full text searching help provide access to information but are not as selective as an index, as they provide non-relevant links, and may miss relevant information if it is not phrased in exactly the way they expect

Appendix B

List of installed software at FH Wiener Neustadt

Software Winter Semester 2013 / 2014

Wo: E=EDV (3,4,5,6,8)
L=Labor, C=CAD (1,2,7,9)

Als CAD Säle sind die Säle EDV1, EDV7 und EDV9 vorgesehen.

	Version	Sprache	Wo
MS Office 2010	2010	deutsch & englisch	E,C
MS Project	2010	deutsch & englisch	E,C
MS Visio	2010	deutsch & englisch	E,C
SPSS	21		E,C
MaxQDAPlus	11		E,C,L
Amos	21		E,C
R-Project			E,C
IBM SPSS Modeler	15		E,C
Matlab R2011a			E,L,C
GPSS	5.2.2		E,L,C
Labview		englisch	C
Ansys	14.5		C
Comsol			
Oslo			
Eagle	6.4.0		
Codelite	5.1.0		
MPLab	8.86		
Bloodshed	4.9.9.2		
Esacomp	4.4		C
Catia	V5 R22		E,C
Geomagic	12		E,C
Freshminder			
Magix			
Minitab	16		
EndNote	X5		E,C
Audacity	2.0.0(ANSI)		E,C
Oracle Developer Suite			
Oracle VirtualBox			E,L,C
Irfanview			E,L,C
Firefox			E,L,C

VideoLan (VLC)			E,C
Wiener Testsystem			E,C
SAP Gui			E,C
Visual Studio 2012			C
Kinovea	0815	englisch	
Longomatch	0.18.12	deutsch	
Xilinx	14.2	englisch	C
SkillSpector & SkillCapture		englisch	E
Octave		englisch	E
ÖWA-Plus		deutsch	E,C