NIELS JOUBERT

NOTES ON QUADROTOR CINEMATOGRAPHY

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THE PUBLIC IS MORE FAMILIAR WITH BAD DESIGN THAN GOOD DESIGN. IT IS, IN EFFECT, CONDITIONED TO PREFER BAD DESIGN, BECAUSE THAT IS WHAT IT LIVES WITH. THE NEW BECOMES THREATENING, THE OLD REASSURING.

PAUL RAND

A DESIGNER KNOWS THAT HE HAS ACHIEVED PERFECTION NOT WHEN THERE IS NOTHING LEFT TO TAKE

AWAY.

ANTOINE DE SAINT-EXUPÉRY

... THE DESIGNER OF A NEW SYSTEM MUST NOT ONLY BE THE IMPLEMENTOR AND THE FIRST LARGE-SCALE USER; THE DESIGNER SHOULD ALSO WRITE THE FIRST USER MANUAL... IF I HAD NOT PARTICIPATED FULLY IN ALL THESE ACTIVITIES, LITERALLY HUNDREDS OF IMPROVEMENTS WOULD NEVER HAVE BEEN MADE, BECAUSE I WOULD NEVER HAVE THOUGHT OF THEM OR PERCEIVED WHY THEY WERE IMPORTANT.

DONALD E. KNUTH

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Contents

| Introduction and Goals 7 | |
|--|----|
| Preface: Doing Research 9 | |
| Questions I'd Like To Know The Answer To | 11 |
| Dead Kittens Pile 13 | |
| Bibliography 15 | |
| Index 17 | |

Introduction and Goals

- Continuity of Ideas
 - Writing as a form of Learning
 - Precision, Careful not to fool myself

Preface: Doing Research

Research in Computer Science is a challening and potentially rewarding blend of: - project management - reading and learning - thinking - problem-solving - experimentation - mathematical modeling - engineering systems - psychology studies - writing - public discourse in the form of public speaking and argueing - people management and collaboration skill

Niels' Good Meeting Tips

Woot

Making Talks

Talks are important, and fun! I refer you to the fantastic ""

Project Management Ideas

Maintaining Mental Health

Emotional Intelligence

word up indeed

Research Traits to Develop

- Integrity
 - Courage

Questions I'd Like To Know The Answer To

Indeed Woot

Dead Kittens Pile

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Bibliography

Robert Bringhurst. *The Elements of Typography*. Hartley & Marks, 3.1 edition, 2005. ISBN 0-88179-205-5.

Edward R. Tufte. *Envisioning Information*. Graphics Press, Cheshire, Connecticut, 1990. ISBN 0-9613921-1-8.

Edward R. Tufte. *Visual Explanations*. Graphics Press, Cheshire, Connecticut, 1997. ISBN 0-9613921-2-6.

Edward R. Tufte. *The Visual Display of Quantitative Information*. Graphics Press, Cheshire, Connecticut, 2001. ISBN 0-9613921-4-2.

Edward R. Tufte. *Beautiful Evidence*. Graphics Press, LLC, first edition, May 2006. ISBN 0-9613921-7-7.

Hideo Umeki. The geometry package. http://ctan.org/pkg/geometry, December 2008.

Index

| 10pt class option, 31 | nohyper, 25 | \forceversofloat, 23 |
|---------------------------|---------------------------------|------------------------------------|
| 11pt class option, 31 | nols, 25 | fullwidth environment, 23 |
| 12pt class option, 31 | notitlepage, 25 | |
| • | notoc, 25 | \geometry (geometry package), 28 |
| a4paper class option, 24 | onecolumn, 31 | geometry package, 28 |
| a5paper class option, 31 | oneside, 25 | |
| \allcaps, 24 | raggedleft, 29 | headings, 17, 19 |
| \author, 25 | raggedright, 29 | numbered, 27 |
| auto class option, 29 | sfsidenotes, 24 | hyperref package, 25 |
| 1 , , | sidenote, 28 | 1 0 . 3 |
| b5paper class option, 31 | symmetric, 25, 29, 34 | justified class option, 25, 28, 29 |
| \bibliography, 20 | titlepage, 25 | 1 , 3, , , |
| bidi class option, 25 | twoside, 24, 25, 34 | landscape class option, 31 |
| bidi package, 25 | \clearpage, 22 | legalpaper class option, 31 |
| booktabs package, 22 | | letterspace package, 25 |
| 1 0 / | debug class option, 25, 33 | license, 4 |
| caption class option, 28 | debug messages, 34 | , i |
| \caption, 21, 22 | 0 0 7 3 1 | \maketitle, 25 |
| citation class option, 28 | environments | marginals class option, 28 |
| \cite, 20 | figure, 21 | marginfigure environment, 21 |
| class options, 24, 25 | figure*, 21 | marginnote class option, 28 |
| 10pt, 31 | fullwidth, 23 | \marginnote, 20 |
| 11pt, 31 | marginfigure, 21 | margintable environment, 21 |
| 12pt, 31 | margintable, 21 | \morefloats, 22, 34 |
| a4paper, 24 | table*, 21 | |
| a5paper, 31 | tabular, 21 | \newthought, 19 |
| auto, 29 | error messages, 34 | \nobibliography, 20 |
| b5paper, 31 | executivepaper class option, 31 | nofonts class option, 25 |
| bidi, 25 | • | nohyper class option, 25 |
| caption, 28 | figure environment, 21 | nols class option, 25 |
| citation, 28 | figure* environment, 21 | notitlepage class option, 25 |
| debug, 25, 33 | file hooks, 27 | notoc class option, 25 |
| executivepaper, 31 | book, 27 | • |
| justified, 25, 28, 29 | common, 27 | onecolumn class option, 31 |
| landscape, 31 | handout, 27 | oneside class option, 25 |
| legalpaper, 31 | \FloatBarrier, 22 | • |
| marginals, 28 | fontenc package, 25 | packages |
| marginnote, 28 | \footnote, 19 | bidi, 25 |
| nofonts, 25 | \forcerectofloat, 23 | booktabs, 22 |
| | | |

| fontenc, 25 | \setmarginnotefont, 29 | \title, 25 |
|------------------------------|------------------------------------|--|
| geometry, 28 | \setsidenotefont, 29 | titlepage class option, 25 |
| hyperref, 25 | sfsidenotes class option, 24 | tufte-book-local.tex, 27 |
| letterspace, 25 | sidenote class option, 28 | tufte-common-handout.tex, 27 |
| soul, 25 | \sidenote, 20 | tufte-common-local.tex, 27 |
| | \smallcaps, 24 | tufte-handout-local.tex, 27 |
| raggedleft class option, 29 | soul package, 25 | twoside class option, 24, 25, 34 |
| raggedright class option, 29 | \subparagraph, 31, 34 | typefaces, 17, 24 |
| | \subsubsection, 31, 34 | sizes, 17 |
| secnumdepth counter, 27, 28 | symmetric class option, 25, 29, 34 | |
| \setcaptionfont, 29 | | Tyramina magazaasa a |
| \setcitationfont, 29 | table* environment, 21 | warning messages, 34 |
| \setcounter, 28 | tabular environment, 21 | |
| \setfloatalignment, 23 | \textsc, 24 | $X_{\overline{1}}$ $E_{\overline{1}}$ $E_{\overline{1}}$ $E_{\overline{1}}$ $E_{\overline{1}}$ |
| | | |