



Title Goes Here and Looks Like This When it Goes on Multiple Lines

Master's Programme in Parks and Recreation
Small Town Politics Study Track
Master's Thesis

Author:
Ron Swanson

Supervisors:
Prof. Leslie Knope
Dr. Ann Perkins

24.07.2023
Helsinki

Abstract

Faculty: Faculty of Parks and Recreation
Degree programme: Master's Programme in Parks and Recreation
Study track: Small Town Politics
Author: Ron Swanson
Title: Title Goes Here and Looks Like This When it Goes on Multiple Lines
Level: Master's Thesis
Month and year: July 2023
Number of pages: 10
Keywords: parks, recreation
Supervisors: Prof. Leslie Knope, Dr. Ann Perkins
Deposited: HELDA - Digital Repository of the University of Helsinki

Abstract:

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Tiivistelmä

Tiedekunta:	Puistojen ja virkistystyksen tiedekunta
Koulutusohjelma:	Puistojen ja virkistystyksen maisteriohjelma
Opintosuunta:	Kyläpolitiikka
Tekijä:	Ron Swanson
Työn nimi:	Suomenkielinen otsikko joka on kohtuullisen pitkä mutta ei kuitenkaan liian pitkä
Työn laji:	Maisterintutkielma
Kuukausi ja vuosi:	Kuukausi 2023
Sivumäärä:	10
Avainsanat:	puistot, virkistys
Ohjaajat:	Professori Leslie Knope, FT Ann Perkins
Säilytyspaikka:	HELDA - Helsingin yliopiston digitaalinen arkisto
Tiivistelmä:	

Jukolan talo, eteläisessä Hämeessä, seisoo erään mäen pohjoisella rinteellä, liki Toukolan kylää. Sen läheisin ympäristö on kivinen tanner, mutta alempana alkaa pellot, joissa, ennenkuin talo oli häviöön mennyt, aaltoili teräinen vilja. Peltojen alla on niittu, apilaäyräinen, halkileikkaama monipolvisen ojan; ja runsaasti antoi se heiniä, ennenkuin joutui laitumeksi kylän karjalle.

Muutoin on talolla avaria metsiä, soita ja erämaita, jotka, tämän tilustan ensimmäisen perustajan oivallisen toiminnan kautta, olivat langenneet sille osaksi jo ison jaon käydessä entisinä aikoina. Silloinpa Jukolan isäntä, pitäen enemmän huolta jälkeentulevainsa edusta kuin omasta parhaastansa, otti vastaan osaksensa kulon polttaman metsän ja sai sillä keinolla seitsemän vertaa enemmän kuin toiset naapurinsa.

Mutta kaikki kulovalkean jäljet olivat jo kadonneet hänen piiristänsä ja tuuhea metsä kasvanut sijaan. - Ja tämä on niiden seitsemän veljen koto, joiden elämänvaiheita tässä nyt käyn kertoilemaan.

Veljesten nimet vanhimhasta nuorimpaan ovat: Juhani, Tuomas, Aapo, Simeoni, Timo, Lauri ja Eero. Ovat heistä Tuomas ja Aapo kaksoispari ja samoin Timo ja Lauri. Juhanin, vanhimman veljen, ikä on kaksikymmentä ja viisi vuotta, mutta Eero, nuorin heistä, on tuskin nähnyt kahdeksantoista auringon kierrosta.

Acknowledgements

I want to acknowledge CSC – IT Center for Science, Finland, for providing computational resources.

Helsinki, 1.1.2019

Ron Swanson

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Abbreviations

ECVO	European College of Veterinary Ophthalmologists
FLH	Finnish Lapphund
GWAS	Genome-wide association study
HWE	Hardy-Weinberg equilibrium
IBD	Identical by descent

Symbols

B	Magnetic flux density
c	Speed of light in vacuum $\approx 3 \times 10^8$ [m/s]
ω_D	Debye frequency
ω_{latt}	Average phonon frequency of lattice

Operators

$\nabla \times \mathbf{A}$	Curl of vector A
$\frac{d}{dt}$	Derivative with respect to variable t
$\frac{\partial}{\partial t}$	Partial derivative with respect to variable t
\sum_i	Sum over index i
$\mathbf{A} \bullet \mathbf{B}$	Dot product of vectors A and B

1 Introduction

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- First itemtext
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- Second itemtext

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1.1 Reference and citation example

You can jump to section 5 directly from the number, which is the summary section, and to the reference directly from itself (Gelatt, 2007), meaning the year or number depending on the bibliography style.

2 Background

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L^AT_EX is great for equations, as can be seen in equation 1.

$$P(A|B) = \frac{P(B|A) P(A)}{P(B)} \quad (1)$$

2.1 Subsection with a dummy figure and table

Citation (Hermanson and Lahunta, 2020; Petersen-Jones, 2005). Petersen-Jones (2005) can be cited also as part of the text, or just print the names Petersen-Jones or the year 2005. Below is figure 2.1.



Figure 2.1: *Dummy figure with a citation (Mellersh, 2014).*

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Table 2.1: Dummy table with some random data taken from the Aalto University LaTeX template.

Parameter	Exhaust air	Outdoor air	Heat wheel (80%)
Heat recovery [%]	89,6 %	89,6 %	77,4 %
Real heat recovery [%]	50,5 %	52,1 %	-
Net energy need	27,7	27,0	15,8
Delivered energy	31,1	27,6	45,6

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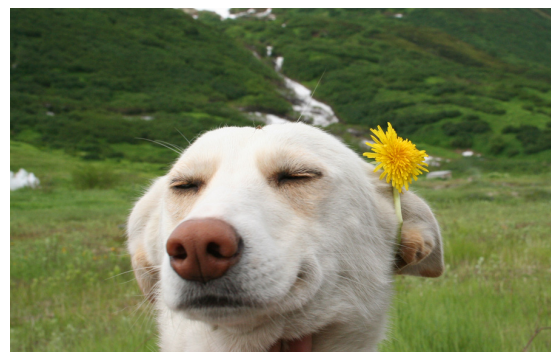
Table 2.1 is on the top of the page. A footnote displaying how to include urls¹ in text.

2.2 Another subsection

Here we have some subfigures side by side to demonstrate the captioning style settings in figure 2.2. You can reference the subfigures independently too: 2.2a and 2.2b. Some space before the figure can be added like this.



(a) *kitty*



(b) *dogo*

Figure 2.2: *Kitty and dogo. Much wow.*

You can also use a newline with `\\` or `\newline` to add vertical space.

¹Like this www.google.fi or fancier [Google](https://www.google.com). You can change the link color in "hypersetup".

Commands are not processed in this verbatim environment.

2.2.1 Sub-subsection

This and the following subsections 2.2.2 and 2.3 demonstrate different lists.

Itemize:

- First itemtext
- Second itemtext
- Last itemtext
- First itemtext
- Second itemtext

2.2.2 Another sub-subsection

Enumerate:

1. First itemtext
2. Second itemtext
3. Last itemtext
4. First itemtext
5. Second itemtext

2.3 Third subsection

Description:

First itemtext

Second itemtext

Last itemtext

First itemtext

Second itemtext

3 Methods

Here is some lorem ipsum math stuff.

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$$\bar{x} = \frac{1}{n} \sum_{i=1}^{i=n} x_i = \frac{x_1 + x_2 + \dots + x_n}{n}$$

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$$\int_0^\infty e^{-ax^2} dx = \frac{1}{2} \sqrt{\int_{-\infty}^\infty e^{-ax^2} dx} \int_{-\infty}^\infty e^{-ay^2} dy = \frac{1}{2} \sqrt{\frac{\pi}{a}}$$

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$$\sum_{k=0}^{\infty} a_0 q^k = \lim_{n \rightarrow \infty} \sum_{k=0}^n a_0 q^k = \lim_{n \rightarrow \infty} a_0 \frac{1 - q^{n+1}}{1 - q} = \frac{a_0}{1 - q}$$

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$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-p \pm \sqrt{p^2 - 4q}}{2}$$

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$$\frac{\partial^2 \Phi}{\partial x^2} + \frac{\partial^2 \Phi}{\partial y^2} + \frac{\partial^2 \Phi}{\partial z^2} = \frac{1}{c^2} \frac{\partial^2 \Phi}{\partial t^2}$$

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4 Results

Check appendix A for one more figure.

Table 4.1: Example table with tabular numbers

Col1	Col2	Col2	Col3
1	6	87837	787
2	005	78	5415
3	545	778	7507
4	585	18744	7560
5	88	0788	6344

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5 Discussion

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References

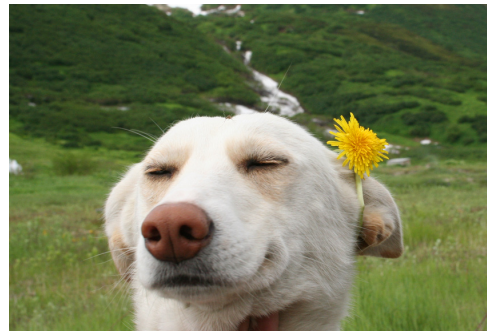
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A Some extra information

Some more dogos in figure A.1 in this appendix.



(a) *dogo 1*



(b) *dogo 2*



(c) *dogo 3: vertical flip*



(d) *dogo 4: horizontal flip*

Figure A.1: *Wow, more dogos.*