

Author name disambiguation in publications using graph neural networks

Daniel Afonso de Resende

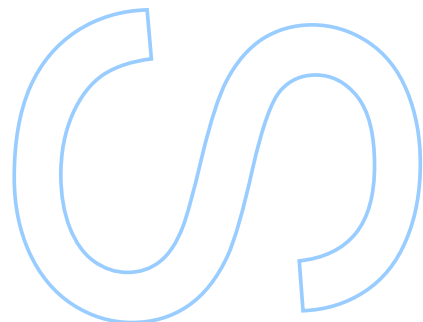
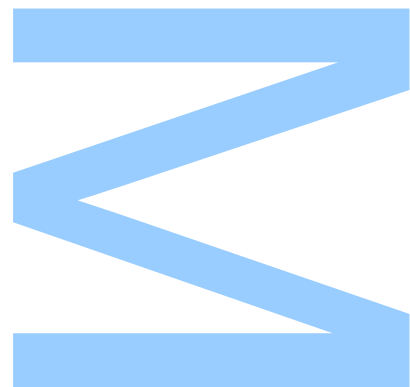
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Orientador

Prof. Dr. Fernando Silva, Faculdade de Ciências

Coorientador

Prof. Miguel Silva, Faculdade de Ciências

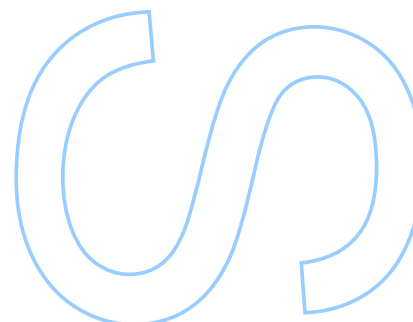




Todas as correções determinadas
pelo júri, e só essas, foram efetuadas.

O Presidente do Júri,

Porto, ____/____/____



UNIVERSIDADE DO PORTO

MASTERS THESIS

Author name disambiguation in publications using graph neural networks

Author:

Daniel RESENDE

Supervisor:

Fernando SILVA

Co-supervisor:

Miguel SILVA

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Departamento de Ciência e Computadores

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" I am and always will be the optimist, the hoper of far-flung hopes and the dreamer of improbable dreams "

Matt Smith as *The Doctor*, written by Matthew Graham

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Acknowledge ALL the people!

UNIVERSIDADE DO PORTO

Abstract

Faculdade de Ciências da Universidade do Porto

Departamento de Ciência e Computadores

MSc. Information Security

Author name disambiguation in publications using graph neural networks

by [Daniel RESENDE](#)

This thesis is about something, I guess.

UNIVERSIDADE DO PORTO

Resumo

Faculdade de Ciências da Universidade do Porto

Departamento de Ciência e Computadores

Mestrado Integrado em Engenharia Física

Titulo da Tese em Português

por [Daniel RESENDE](#)

Este tese é sobre alguma coisa

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Chapter 1

NNN

Welcome to the tutorial on how to use this thesis model. This is not to teach you how to use \LaTeX . For that read a tutorial. But this aims to teach you how to do the basic stuff you will need in order to produce a decent document. We can start with a section and a section epigraph:

1.1 Citations

Python is a truly wonderful language. When somebody comes up with a good idea it takes about 1 minute and five lines to program something that almost does what you want. Then it takes only an hour to extend the script to 300 lines, after which it still does almost what you want.

DR. JACK JANSEN, MAINTAINER OF MACPYTHON

You can add extra info to you references, like [? , section 3]. You can also call them by author, like saying ?] .

Also a random displayquote thing:

How can we image an object that's behind or enclosed on a medium where light does not propagate trivially? How can we manipulate light propagating in these media?

1.2 Figures

Let us start with a figure with two subfigures like in 1.1.

Or two figures side by side like 1.2 and 1.3.

You can make
personal notes
like this



(A) FCUP's fat cat doing what cats do.



(B) FCUP's fat cat resting.

FIGURE 1.1: FCUP's fat cat.



FIGURE 1.2: FCUP's fat cat doing what cats do.



FIGURE 1.3: FCUP's fat cat.

Or a figure with some text on the side, like 1.4, or even a figure wrapped around in text, as seen on Figure 1.5.

And here we have some text related to this image. The text can occupy the same space as the image would normally do.

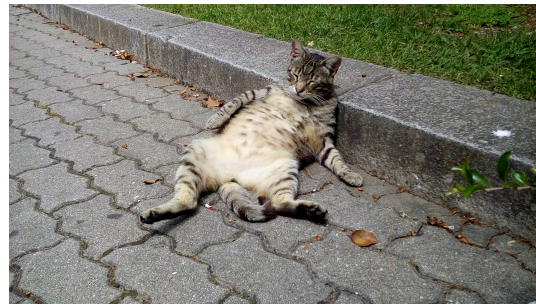
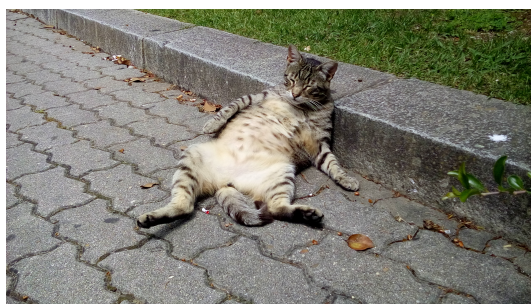


FIGURE 1.4: FCUP's fat cat.

This is where the float goes with text wrapping around it. You may embed tabular environment inside wrappable environment and customize as you like: Ultrices dui sapien eget mi proin sed libero. Ornare lectus sit amet est placerat in egestas erat imperdied. Tortor dignissim convallis aenean et. Quam adipiscing vitae proin sagittis nisl rhoncus mattis. Vivamus at augue eget arcu dictum varius duis. Cursus turpis massa tincidunt dui. Leo in vitae turpis massa sed. Tempus orci eu lobortis elementum. Turpis



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1.2.1 SVGs

How to make a \LaTeX document with vector images, where the text in the images has exactly the same font and size as in normal text? This article describes how this is done using the ‘PDF/EPS/PS + \LaTeX ’ output feature of Inkscape 0.48. Inkscape can export the graphics to PDF/EPS/PS, and the text to a \LaTeX file. When the \LaTeX file is input in the \LaTeX document, the PDF/EPS/PS image is included with overlaid text. Because typesetting of the text is done by \LaTeX , \LaTeX commands can be used in images, such as writing equations, references and shorthand macros.

(requires Inkscape version 0.48 or higher; this document discusses features up to Inkscape 0.49)

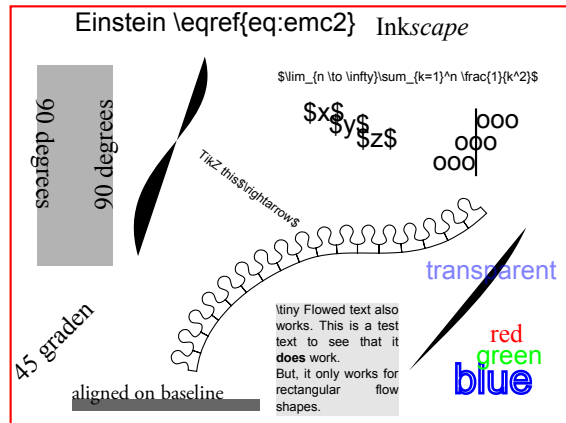


FIGURE 1.6: The test SVG image, as it is seen in Inkscape (exported to PDF *without* \LaTeX option).

$$E = mc^2 \tag{1.1}$$

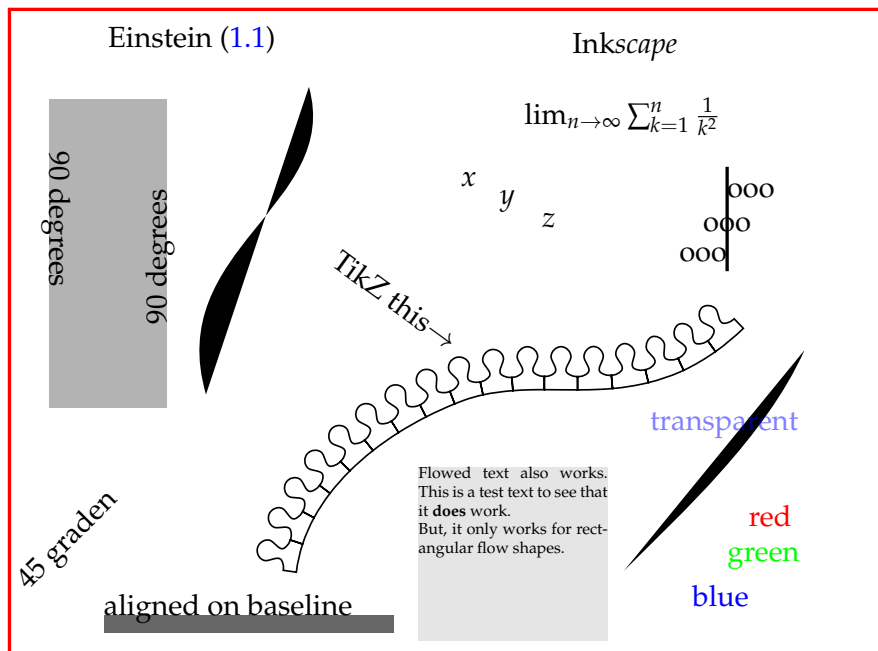


FIGURE 1.7: The test image, exported to PDF *with* \LaTeX option.

1.2.1.1 Automatic export

(‘write18’ must be enabled, see the `epstopdf` package documentation. Add `-shell-escape` to the command line when calling `pdflatex`. **And inkscape must be discoverable by the OS**),

Whenever the SVG file is updated, it is possible to have \LaTeX automatically call Inkscape to export the image to PDF and \LaTeX again. This simplifies the workflow to

- Modify the SVG image in Inkscape;
- Save the SVG (Ctrl+S, no need to export to PDF);
- Recompile \LaTeX document. `pdf \LaTeX` will notice the SVG file has changed, and will automatically do the export for you.

1.3 Math

The following equation uses a custom mathematical operator defined in line 88 of preamble.tex:

$$\begin{array}{l} \text{meshgrid } \mathbf{x}_1 = \begin{bmatrix} a_1 & b_1 & c_1 \\ a_1 & b_1 & c_1 \end{bmatrix} \\ \text{meshgrid } \mathbf{x}_2 = \begin{bmatrix} a_2 & a_2 & a_2 \\ b_2 & b_2 & b_2 \end{bmatrix} \end{array} \quad (1.2)$$

The following equation uses the custom ceil and floor operator defined in line 86 of the stock preamble.tex:

$$x = \left\lfloor \frac{y}{2} \right\rfloor + \left\lceil \frac{w}{2} \right\rceil \quad (1.3)$$

And this is an equation with multiple lines:

$$\begin{array}{l} I_0 = I' + I'' \cos(\Psi) \\ I_{\pi/2} = -I'' \sin(\Psi) \\ I_{\pi} = I' - I'' \cos(\Psi) \\ I_{3\pi/2} = I'' \sin(\Psi) \end{array} \quad (1.4)$$

And this is some random Python code:

```
1 def Hello():
    """
3     Meaningful docstring with in-depth explanation of this function
    """
5     print('Hello World !!')

7 if __name__ == '__main__':
    Hello()
```


Chapter 2

Introduction

Hello

Chapter 3

State of the art

3.1 Author Name Disambiguation

Appendix A

Appendix Title Here

Write your Appendix content here.

