

My thesis at Universitat Pompeu Fabra

A Quarto extension and template

Gonzalo Garcia-Castro

TESI DOCTORAL UPF / Year 2023

THESIS SUPERVISOR
Dr. Awesome Supervisor
Department Department of Templates



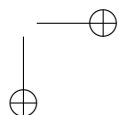
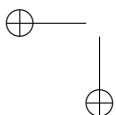
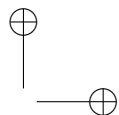
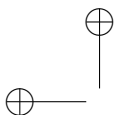
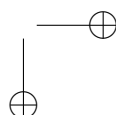
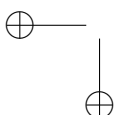
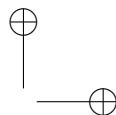
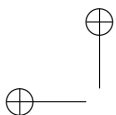
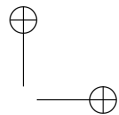
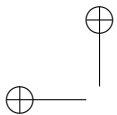




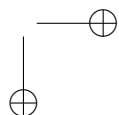
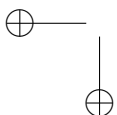
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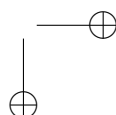
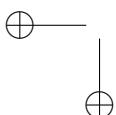
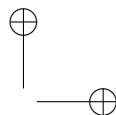
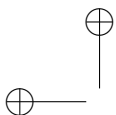
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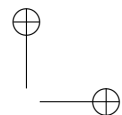
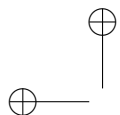




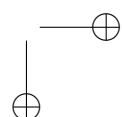
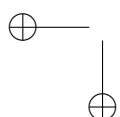
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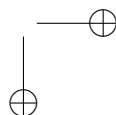
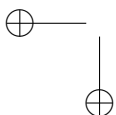
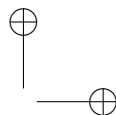
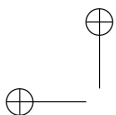






To the coward that spent time preparing this template instead of actually writing his own thesis.



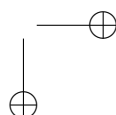
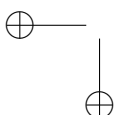
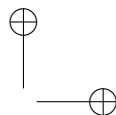
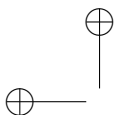


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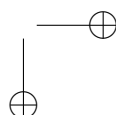
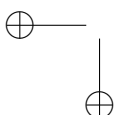
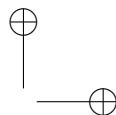
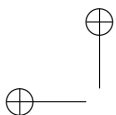
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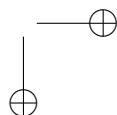
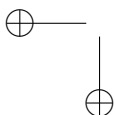
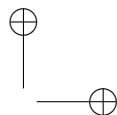
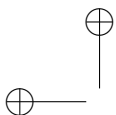
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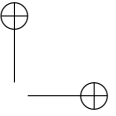
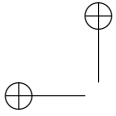


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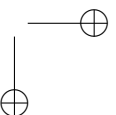
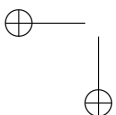
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INTRODUCTION

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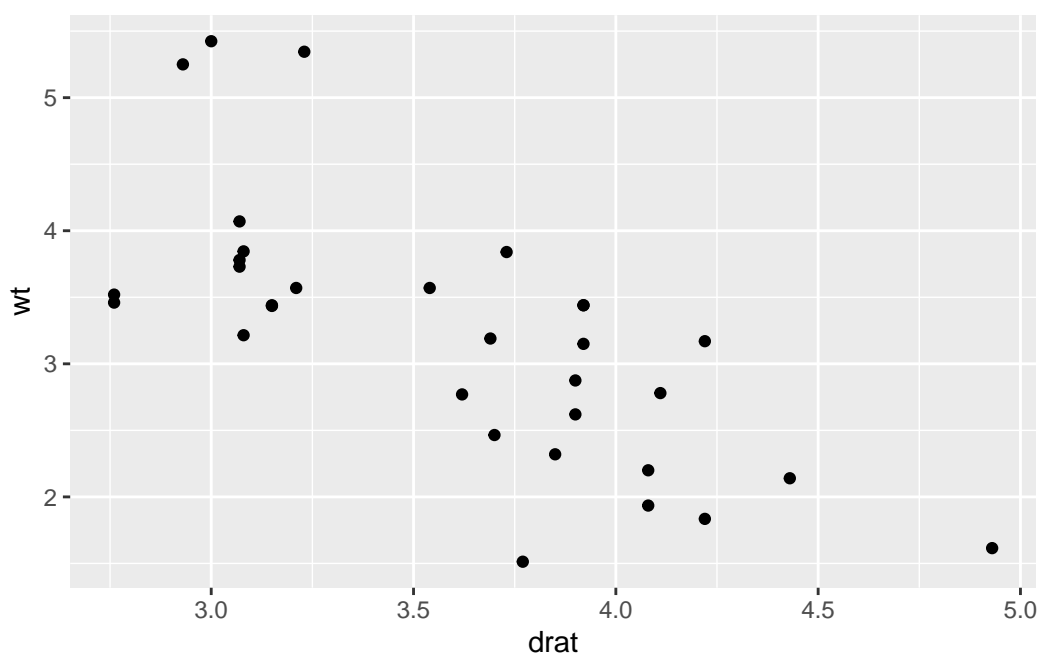
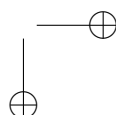
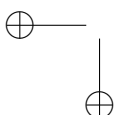
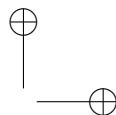
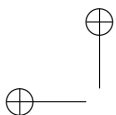


Figure 1: This is Figure 1, which I made using ggplot2



THE FIRST CHAPTER

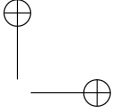
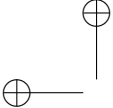
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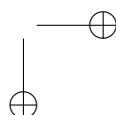
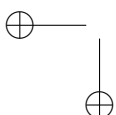
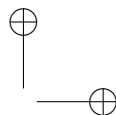
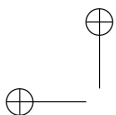


Figure 2: A picture of Cudillero, a village in my home Asturias (Spain)



elementum sem. Aliquam nec semper leo.

Donec gravida arcu nec felis viverra placerat. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam ornare ligula sed sagittis ornare. Quisque magna orci, aliquam vitae nisl non, pellentesque sodales sapien. Donec eleifend posuere magna, quis convallis orci auctor quis. Vestibulum vulputate mi vel efficitur egestas. Suspendisse quis sapien in sem rutrum porttitor sit amet ac lorem. Mauris gravida augue eu purus faucibus, id accumsan est varius. Curabitur id ex egestas, sagittis erat id, eleifend nunc.



THE SECOND CHAPTER

Sed eleifend congue aliquam. Aenean risus tellus, tincidunt at venenatis id, maximus feugiat nunc. Phasellus tellus enim, euismod auctor nisi at, blandit aliquam ligula. Donec auctor dignissim eros. Etiam et enim diam. Aenean eget tellus sodales, laoreet risus at, imperdiet mauris. Cras nulla nulla, vehicula id accumsan vitae, malesuada at neque. Curabitur suscipit risus at sodales sagittis. Nam molestie sapien tincidunt placerat semper. Vestibulum ut eleifend urna, at aliquet quam.

This is Table 1, which contains the `mtcars` dataset

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
21.0	6	160	110	3.90	2.620	16.46	0	1	4	4
21.0	6	160	110	3.90	2.875	17.02	0	1	4	4
22.8	4	108	93	3.85	2.320	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.440	17.02	0	0	3	2
18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

Integer dui odio, fringilla sit amet consequat a, accumsan ut eros. Sed mauris risus, laoreet sit amet nunc id, ornare sagittis odio. Suspendisse elementum laoreet condimentum. Sed molestie mauris diam. Interdum et malesuada fames ac ante ipsum primis in faucibus. Praesent blandit at nisl imperdiet sagittis. In at metus sem. Aliquam ultricies fermentum risus, malesuada auctor nisi elementum quis. Nulla facilisis aliquet lacus, non aliquam justo volutpat vitae.

Phasellus vitae nisl purus. Nullam sed odio elit. Maecenas gravida convallis faucibus. Nulla pellentesque, nulla ut efficitur commodo, tortor nulla aliquet leo, ut commodo enim magna sit amet erat. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse potenti. Donec euismod eros eu rhoncus mollis. Fusce id enim in sem sodales tempor eu quis dolor. Nulla sed elit eget ex blandit consequat ac tincidunt quam. Mauris ac sem eget nibh convallis venenatis. Ut ullamcorper egestas condimentum. Suspendisse ut pharetra neque. Donec scelerisque at odio et congue. Sed quis turpis at velit vestibulum sollicitudin eu ut elit. Suspendisse placerat hendrerit rutrum. Praesent accumsan ligula nec eleifend dapibus.

DISCUSSION

Aliquam at massa turpis. Donec ac aliquet ligula. Integer eget magna mauris. Vestibulum venenatis ac risus eu ultrices. Suspendisse fringilla vestibulum blandit. Integer hendrerit fermentum ante, molestie consequat risus faucibus nec. Donec pellentesque condimentum bibendum. Cras suscipit ut elit in ullamcorper. Phasellus egestas arcu quis mi posuere, vitae commodo lorem mattis. Nulla a risus nec ligula finibus facilisis. In lorem mauris, pretium at libero et, hendrerit ornare orci. Aliquam sed odio vel lacus ullamcorper vehicula eget nec purus.

Suspendisse potenti. Sed eget urna ac tortor ornare ullamcorper nec eu urna. Donec quis auctor metus. Curabitur quis pretium turpis. Sed ut lobortis nisi. Aenean eu mattis tortor. In ullamcorper interdum lacus eu euismod. Proin hendrerit lorem ut nibh malesuada, non hendrerit mi viverra. Aliquam quam nunc, fringilla consectetur imperdiet et, consectetur id libero. Etiam vestibulum ex vitae neque placerat, nec eleifend purus euismod. Ut eu magna ipsum. In odio nibh, posuere sit amet convallis sed, dignissim id ligula. Donec eleifend, massa sit amet eleifend volutpat, est erat laoreet ligula, dapibus dapibus nulla diam nec nunc. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aenean a fringilla dui, eu interdum ex. Mauris auctor consectetur arcu, id tincidunt odio iaculis sit amet.

Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Fusce efficitur lacus et sem ornare, et elementum leo imperdiet. Mauris sit amet vehicula lacus. Donec lacinia pharetra dui et maximus. Ut lobortis sit amet massa consectetur tempus. Duis mauris erat, semper non eros et, pellentesque aliquam turpis. Etiam augue libero,

iaculis interdum sollicitudin feugiat, sollicitudin vitae nulla. Aliquam non molestie erat, vel pellentesque eros. Mauris sagittis, urna id vestibulum bibendum, lectus eros faucibus odio, non congue ipsum nulla a ante.

Vestibulum vulputate, sapien ut convallis consequat, lorem est ullamcorper neque, a malesuada arcu sem ac ipsum. Duis ac semper ipsum. Aliquam eget lorem dignissim, pretium orci non, sollicitudin arcu. Quisque urna ipsum, tincidunt ac risus eu, suscipit sollicitudin tellus. Donec eget tortor et neque venenatis vestibulum. In vestibulum massa vitae arcu maximus consectetur. Phasellus tellus tellus, congue sit amet nisl vitae, tempus hendrerit nisi. Maecenas ullamcorper quis elit vitae auctor. Curabitur egestas eleifend justo, et fringilla mauris commodo ut. Vestibulum maximus neque dolor, at dictum nunc cursus et. Maecenas ac cursus nulla. Nunc ut massa ex. Suspendisse potenti. Vivamus est nisi, varius ut arcu eget, iaculis convallis ex. Etiam condimentum magna mi, et rhoncus nulla efficitur ac. Proin ultricies mattis neque, sed varius erat.

Donec porttitor facilisis sapien id scelerisque. Aliquam gravida tristique lobortis. Cras lacinia mattis sapien, a accumsan risus interdum vitae. Nam diam mauris, sollicitudin eu commodo ut, convallis sit amet est. Nam volutpat nibh vel orci euismod tempus. Donec in sem magna. Pellentesque eleifend commodo enim, ut suscipit odio tempus ut. Nullam tempor turpis sapien, in suscipit quam finibus quis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Sed semper orci dolor, finibus ornare odio viverra vel. In tellus ante, vulputate nec purus ac, feugiat viverra mi.

Bolliger, S. A., Ross, S., Oesterhelweg, L., Thali, M. J., & Kneubuehl, B. P. (2009). Are full or empty beer bottles sturdier and does their fracture-threshold suffice to break the human skull? *Journal of Forensic and Legal Medicine*, 16(3), 138–142.

Wickham, H., Averick, M., Bryan, J., Chang, W., McGowan, L. D., François, R., Grolemund, G., Hayes, A., Henry, L., Hester, J., et al. (2019). Welcome to the tidyverse. *Journal of Open Source Software*, 4(43), 1686.