

Professional document generation and manipulation with MS Word

Autumn Semester

Dr. Roderick MacKenzie roderick.mackenzie@nottingham.ac.uk Autumn 2016



Roderick MacKenzie

Lecture outline

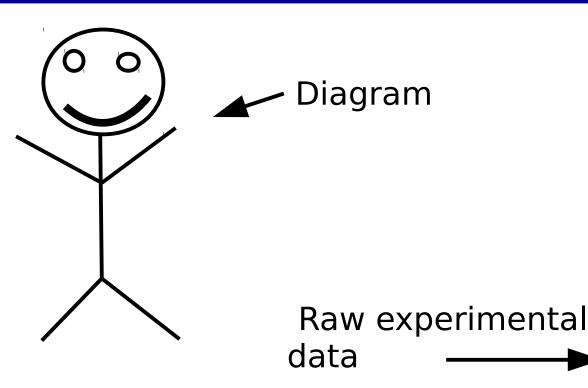
- Hello!, about me
 - Solar energy harvesting
- A word about copyright
- Why do I need a lecture on document presentation?
 - Examples of good and bad documents.
- Software for generating documents
 - MS Word v.s. Libre/OpenOffice
 - Document file types and why you should care.
 - Zip files
- Equations and pixels
 - Using the equation editor
 - Numbering equations automatically

- Referencing in documents
 - The quick and dirty way.
 - The correct way.
- Headers and footers
- Numbering images
- Aligning text
- Track changes
- Document comments.
- Document versioning.
- Document storage and backup.



Hello! I'm Dr MacKenzie or Rod but not Dr. Rod







Before we get into today's lecture I thought I would tell you a bit about my self.



Copyright Konarka's

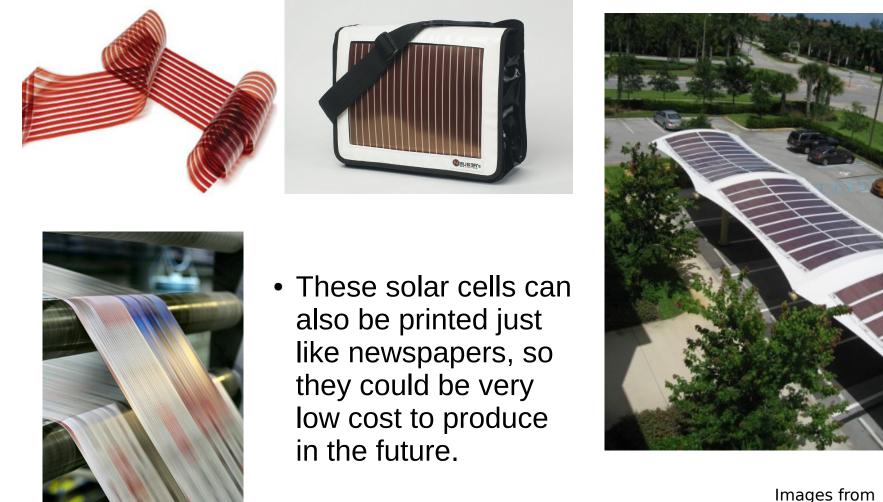
•When I'm not teaching you this module (and doing marking).

•I spend my life working on new types of low cost solar cells to convert sunlight into electricity. Such as this one made entirely of plastic:

•With the aim of reducing our dependence on fossil fuels

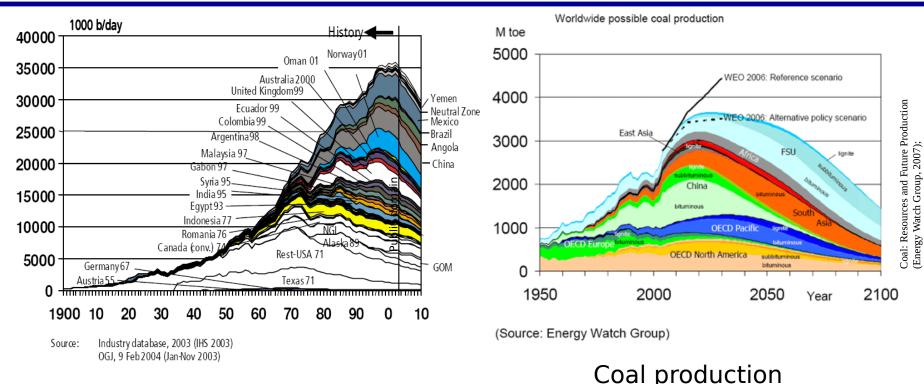
Plastic solar cells are flexible and can be integrated into buildings.





Images from www.konarka.com

But why do I spend my life doing this? Reason 1:



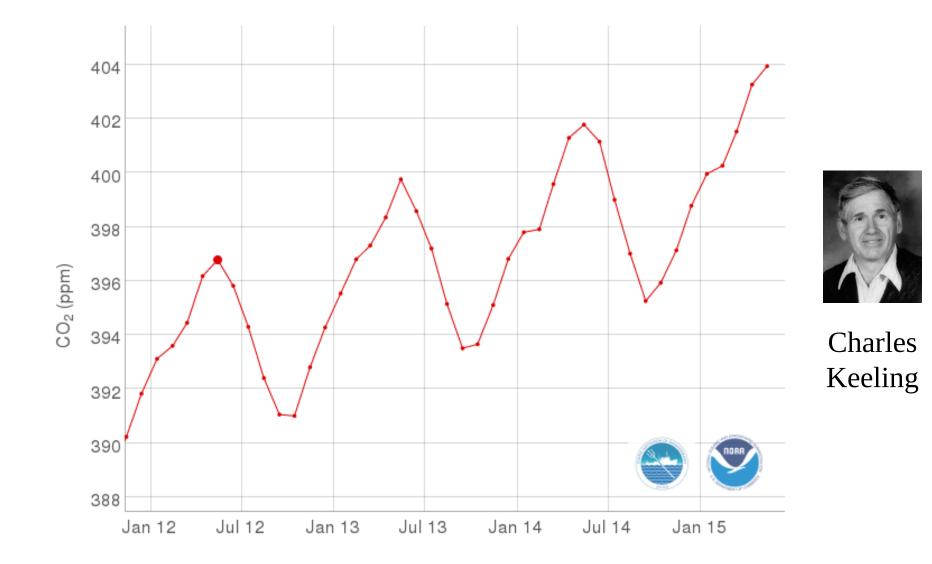
Oil production

•This will damage the economy and our standard of living, our health and well being.

•Hydrocarbons are also far too useful to burn. Nature, January 2012, Vol 481, pp. 433-435

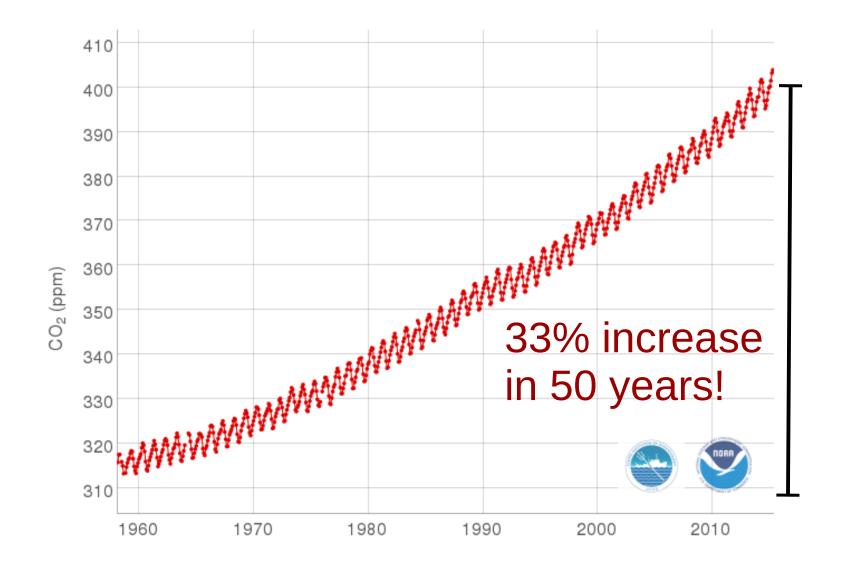
Reason 2: Global warming, the most scary graph you will ever see.





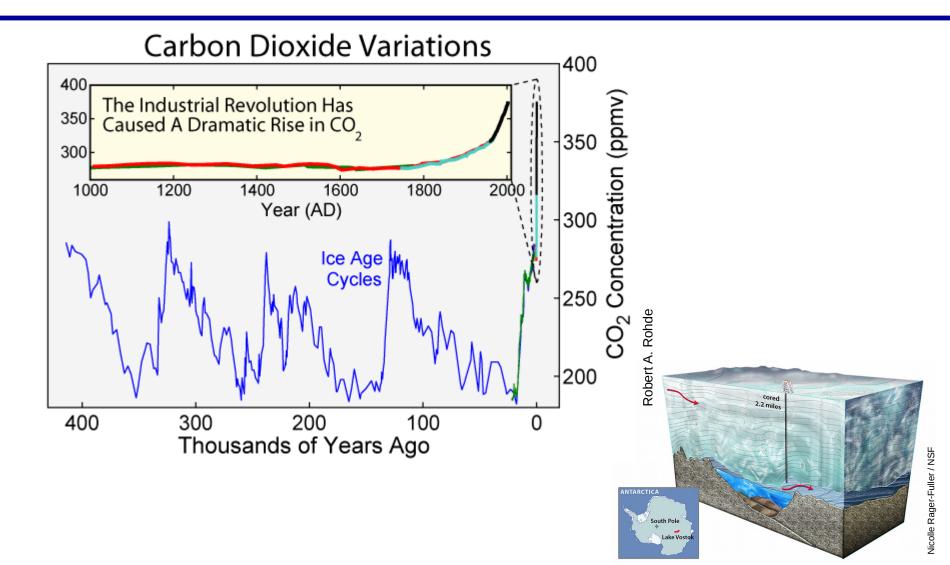
Jan 1980-June 2015





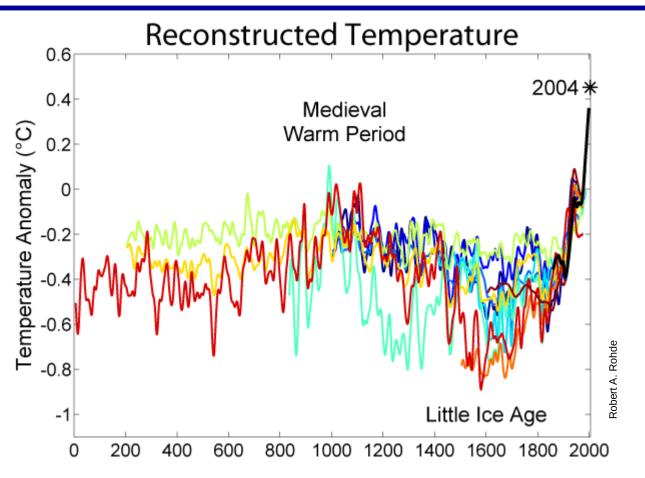
Carbon dioxide 400 AD - 2009 AD





Global temperature 1000 AD – 2000 AD



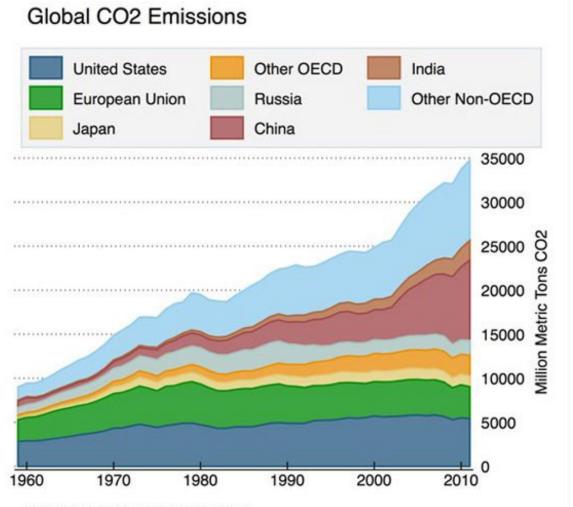


Do you spot the link between the last two graphs?



CO₂ Emissions by country





• This is even more scary!

Based on data from the Global Carbon Budget for 1959-2011.

If you want to read my papers....



-		Roderick C I MacKenzie	🖋 Edit 🔛 Fol	low 🔻	Google Scholar			
	36	University of Nottingham <u>Organic Electronics</u> , Quantum well laser diodes				Q		
	EN.	Verified email at nottingham.ac.uk - Homepage My profile is public			Citation indices	All	Since 2011	
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	RCI MacKenzie, T I	Kirchartz, GFA Dibb, J Nelson sical Chemistry C 115 (19), 9806-9813	119	2011	Co-authors Edit			
		e Mott-Schottky Analysis in Organic Solar Cells g, S Hawks, T Agostinelli, RCI MacKenzie, Y Yang, Society	74	2012	Thomas Kirchartz Michael Chabinyc			
	RCI MacKenzie, JN	dy of mobility in thin films of fullerene derivatives Frost, J Nelson nical physics 132 (6), 064904	61	2010	George F. A. Dibb Jarvist Moore Frost Anders Larsson			
	measurements RCI MacKenzie, CO	oscopic device parameters from transient photocurre of P3HT: PCBM solar cells Shuttle, ML Chabinyc, J Nelson faterials 2 (6), 662-669	ent 60	2012	Steven A. Hawks Felix Deschler Elizabeth von Hauff Enrico Da Como			
	structures on fl	y for three subsequent solar cell layers of inverted exible substrates kenzie, CP Yau, P Atienzar, J Dane, PE Keivanidis,	59	2011	Maxwell J. Robb Neil D Treat			

- So, the point is that I am not the worlds expert on MS Word/MS Excel/ MATLAB but I do use these tools every day to do real world Engineering work/research.
- So everything I tell you will come from a practical point of view. And my aim is to make everything I teach you **useful**.



- I will be teaching you:
 - How to use **MS Word for professional document presentation** (1+2 hrs) to produce professional documents. (this lecture)
 - **MS Excel** to analyze scientific data (1 + 2hrs).
 - And MATLAB to program computers to do really cool things (~10+20 hrs).
 - I really love teaching you MATLAB, it's fun and I love programming.
 - You have to wait two weeks for this though.

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I release all of my notes and artwork under a creative commons license CC-BY.

This means you can **copy them**, **reuse them**, **edit them** and **give them to other people** but you must keep my name on them.

I'm not going to talk about copyright in detail here but when you are copying images or documents of the internet do check what license they are produced under.



https://creativecommons.org/licenses/by/3.0/

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Why do I need a lecture on document preparation?



- How many of you have used MS Word/MS Excel before?
- However, you will be using word processing software a lot throughout your life (degree) so if I can teach you a few simple tricks now, it will make your life a *lot easier*.
- I expect most people to know *some* of what I am going to teach you, but not all people to know *all* of what I am going to teach you.
- So look out for the things you don't know, just relax and take the rest as it comes.
- There is no test or exam at the end of today, this session is just to help you.

Let's look at some examples of what not to do when writing documents.



• May be you don't make all of these mistakes, but may be you make a couple.



Introduction

Doctor blade is used to produce large area thin films widely. It was developed during the 1940's and it is used to form thin sheets of piezoelectric materials and capacitors. Doctor blading is an economical technique to form thin film because very few particles loss in the process, so small amount of starting materials is enough for making film. Because almost all the ink in the process of doctor blading can be fully used, therefore, doctor blading is a more material saving method compared to the spin coating. However, evaporation is slow and the solution does not tend to crystallize at high concentration by using this method.

• What issues can you see?

Examples of what not to do



Bibliography

- 1. Forrest, S. (2012). "Energy efficiency with organic electronics: Ching W. Tang revisits his days at Kodak". MRS Bulletin 37
- 2. Organic Electronics for a Better Tomorrow: Innovation, Accessibility, Sustainability A White Paper from the Chemical Sciences and Society Summit (CS3) San Francisco, California, United States September 2012
- 3. Organic Electronics II: More Materials and Applications, Hagen Klauk John Wiley & Sons, 2012
- 4. Printed Organic and Molecular Electronics, Daniel R. Gamota, Paul Brazis, Krishna Kalyanasundaram, Jie Zhang, Springer Science & Business Media, 2013
- 5. Charge Transport in Disordered Solids with Applications in Electronics, Sergei Baranovski John Wiley & Sons, 2006
- 6. Handbook of Flexible Organic Electronics: Materials, Manufacturing and Applications, Stergios Logothetidis, Elsevier, 2014
- 7. Yamashita, Yoshiro (2009). "Organic semiconductors for organic field-effect transistors".Sci. Technol. Adv. Mater.
- What issues can you see?

Examples of what not to do



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- What issues can you see?
- Generally generating nice documents requires attention to detail and a knowledge of how to use a word processor.

Abstract

Solar energy as a renewable and clean energy receives more and more attention. Plastic solar cells are modelled by Matlab to see the light propagation.

1 Introduction

Solar energy is an important renewable energy and it is radiant light and heat from the sun utilization [1]. The technologies of solar energy are divided into passive solar and active solar depending on the way that they gain and allot solar energy. Active technologies contain the application of photovoltaic systems, concentrated solar power and solar water heating to use the energy. However passive technologies include changing the direction of buildings to capture more sum light. Solar technology has been used in architecture, agriculture, horticulture and even transport. There are also many other renewable energies nowadays but solar energy has some outstanding benefits. There is no noise of capturing solar energy and less need for locations. The price of building solar energy devices are much cheaper than wind energy devices and hydropower devices [2].



Lambert law [5]. X is the position within the solar cell and a is the absorption coefficient depending on material characteristic. The value of a changes with the value of wavelength (λ). The I value is calculated at decided position and wavelength.

2 Code

load sun.csv load plastic.csv P=zeros (58,58); d=zeros (58); pos=0 for y = 1:58, d(y)=pos: pos=pos+5e-9: end myfile=fopen('file.txt'.'w') for x=1:58. for v=1:58. P(y,x)=plastic(y,2)*sun(y,2)*exp(-d(x)*plastic(y,2)); fprintf(myfile,'%e %e %e\n',d(x),plastic(y,1),P(y,x)); end fprintf(myfile,"\n'); end fclose(myfile) xaxis=d(:,1) yaxis=plastic(:,1) contourf(xaxis,yaxis,P) xlabel('Position(m)') vlabel('Wavelength(m)') h=colorbar title(h,'Solar intensity(Watts*m^-2*nm^-1)

3 Results

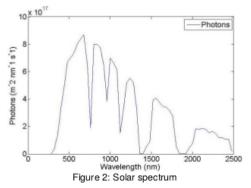
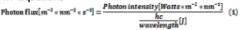


Figure 1: Solar Cell

1.1 Equations



For equation (1), photon flux [3] reflects the amount of electrons that are produced from a solar cell. Photon intensity [4] represents the energy per unit area and unit time. Besides that h is planks constant is 6.6 * 10-34 m2 Kg/s and c is the light speed is $3 * 10^8 m/s$.

 $I(x,\lambda) = I_0 * \exp(-x * \alpha(\lambda)) \quad (2)$ Equation (2) is used to determine how much light is absorbed within the solar cell that is called Beer-

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- There are a lot of packages available for professional document generation
 - MS Word
 - Libre/OpenOffice
 - google docs
 - Latex
 - iwork (Mac never used it)
 - AbiWord, Kword, etc...

Microsoft Word

The University of Nottingham

- Advantages:
 - It's on the university computers
 - It's quite easy to use.
 - It's tightly integrated with other MS products

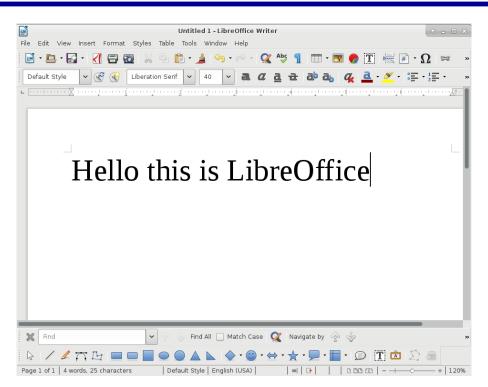
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Hello this is MS Word												
PAGE 1 OF 1	5 WORDS	œ					[1	R	-	+	100%

- Disadvantages
 - It costs about 100 pounds for a student copy and 300 pounds for a business copy. (which is a lot of cash)
 - MS keep changing the file formats to force you to upgrade i.e. .doc or .docx. Even different version of MS office are usually sometimes incompatible.
 - You need an irritating license key.
 - Student copies are a bit of a trap.

Libreoffice



- Advantages:
 - It's free.
 - It's open source.
 - No irritating license key
 - I use it for everything :)
 - Did I mention it was free?
- Disadvantages



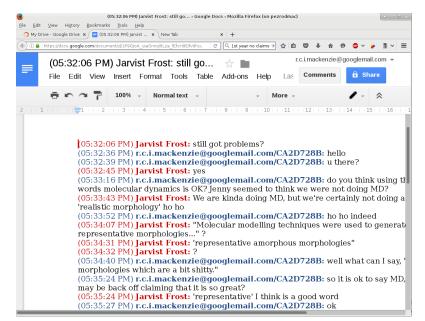
- Sometimes struggles with opening saving .docx files. Especially with track changes
- Grammar checker is not as good as MS Word.
- Apart from that it's pretty good.

Google docs



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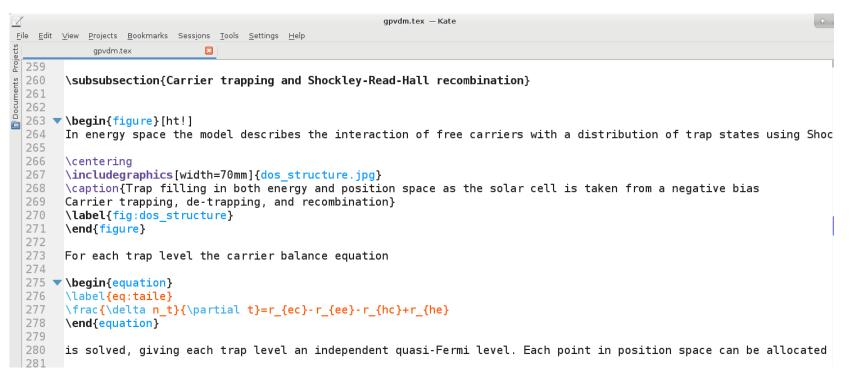
- This is web based.
- You need a google account to access it.
- It' is really cool because you can share a document with your friends and edit it at the same time.
- With all the updates being displayed instantly.
- It's pretty good for collaboration work.
- Apart from that, as a word processor I don't like it that much.







- Latex is super cool What you see is what you get.
- You have to write your document in a type of code, but once it is coded up, Latex will manage everything for you, figures, indexing, numbering the bibliography



 If I'm starting a big complicated project http://gpvdm.com/docs/gpvdm_documentation.pdf , I will tend to use Latex. Latex



• The latex source code would be converted into this.

3.1.3 Carrier trapping and Shockley-Read-Hall recombination

For each trap level the carrier balance equation

$$\frac{\delta n_t}{\partial t} = r_{ec} - r_{ee} - r_{hc} + r_{he} \tag{14}$$

is solved, giving each trap level an independent quasi-Fermi level. Each point in position space can be allocated between 10 and 160 independent trap states. The rates of each process r_{ec} , r_{ee} , r_{hc} , and r_{he} are give in table 1

The carrier escape rates for electrons and holes are given by

$$e_n = v_{th} \sigma_n N_c exp\left(\frac{E_t - E_c}{kT}\right) \tag{15}$$

and

16

- **PhD thesis:** You would be mad not to use Latex.
- **MEng**: Thesis could be worth using Latex.
- **Shopping list/Lab report:** Probably not.



- There are a lot of packages available for professional document generation
 - MS Word
 - Libre/OpenOffice
 - google docs
 - Latex
 - iwork (Mac never used it) (?)
 - AbiWord, Kword, etc... (?)
 - And the rest.....

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 - Zip files
- Equations and pixels
 - Using the equation editor
 - Numbering equations automatically
- Referencing in documents
 - The quick and dirty way.
 - The correct way.

- Headers and footers
- Numbering images
- Aligning text
- Track changes
- Document comments.
- Document versioning.
- Document storage and backup.

File formats and why you should care

- You will want to *send* your documents to other people to *read* and *edit*.
- Very often different versions of MS Office will have difficulty opening files form older/newer versions.
- Also don't expect the recipient to have MS Office.
- They might be reading your document on a tablet/ idevice. Very often .doc/.docx files look very odd when opened in anything but the version of word that made them.



Document formats





File formats and why you should care UNITED KINGDOM - CHINA - MALAYSIA

- Think about sending someone a CV
 you want it to open first time.
- If it does not open nicely, you won't get the job.
- My advice is to stick to one file format during editing then when you are ready to submit. Send people the PDF of your work.



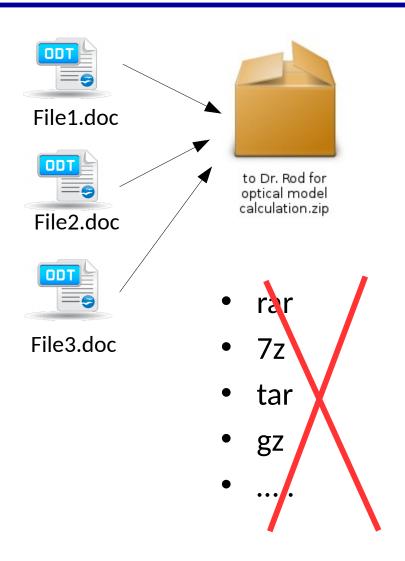
Luis Alberto Arjona Chin

The Universitu of

- PDF documents are an ISO standard (ISO 32000-1), other document formats are not so standardized.
- If sending an important document send it as a PDF.

..... .zip files

- Very often you will want to submit multiple files at the same time
- The best way to do this is to submit a **zip file**.
- Zip files compress the contents so it's smaller than it was originally
- Zip files can be opened on most computers.
- I would strongly suggest you only use zip files, as if the recipient can't open the file – he/she may not bother.





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- Pixels and why they are important, svg files, Zip files
- Equations
 - Using the equation editor

- Referencing
 - Equation numbering
 - Using references in documents
 - Headers and footers, page
 numbering
 - Figures and numbering of figures
- Tables
 - Aligning images in text
 - Figures in tables
- Interfacing with your boss/supervisor
 - Track changes
 - Comments in documents
 - Comparing documents
 - Line spacing
- Document versioning.



High quality equations in MS Word

(9)



$$\boldsymbol{J_n} = q \boldsymbol{\mu}_e \boldsymbol{n}_f \frac{\partial \boldsymbol{E}_{LUMO}}{\partial \boldsymbol{x}} + q \boldsymbol{D}_n \frac{\partial \boldsymbol{n}_f}{\partial \boldsymbol{x}},$$

and holes,

$$J_{p} = q\mu_{h}p_{f}\frac{\partial E_{HOMO}}{\partial x} - qD_{p}\frac{\partial p_{f}}{\partial x}.$$
 (10)

Conservation of charge carriers is forced by solving the charge carrier continuity equations for both electrons,

$$\frac{\partial \boldsymbol{J_n}}{\partial x} = q(R-G),\tag{11}$$

and holes

$$\frac{\partial \boldsymbol{J}_{\boldsymbol{p}}}{\partial x} = -q(R-G). \tag{12}$$

where R and G are the net recombination and generation rates per unit volume respectively.

To obtain the internal potential distribution within the device Poisson's equation is solved,

$$\frac{d}{dx} \cdot \epsilon_0 \epsilon_r \frac{d\phi}{dx} = q(n_f + n_t - p_f - p_t), \tag{13}$$

3.1.3 Carrier trapping and Shockley-Read-Hall recombination

For each trap level the carrier balance equation

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and

- Very often when we give students a work sheet like this.
- And tell the students to reuse the equations
 - They take screen shots of the equation.
- Then copy and paste them into their report.
- Like this....



• And it looks really really bad



- If you are going to insert equations into a document use the equation editor.
- It looks much nicer.

Let's have a go at inserting an equation into an MS Word document.

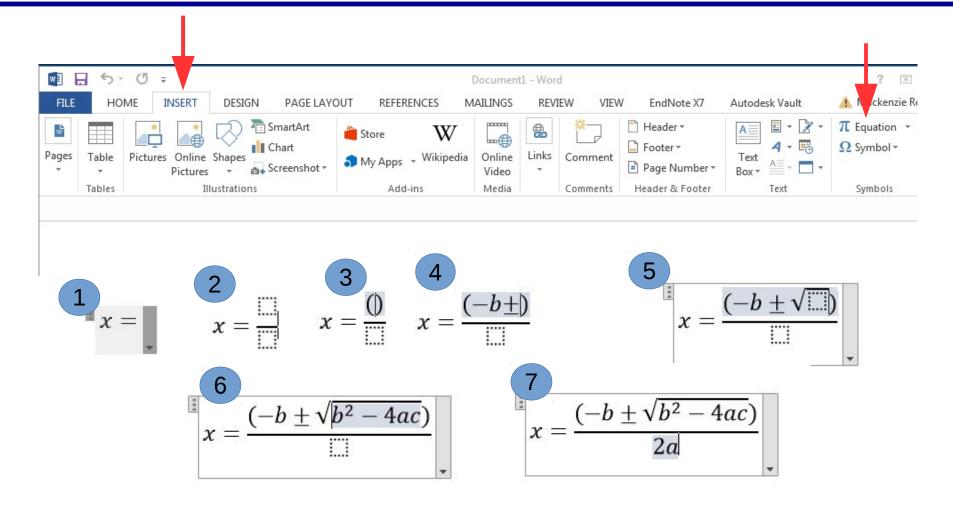


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Programs (2) Word 2013 WordPad Create beautiful documents, easily work with others, and enjoy the read. Control Panel (10) Lock the computer when I leave it alone for a period of time Set screen saver password Make text and other items larger or smaller
 Change account type How to change your Windows password Manage network passwords Require a password when the computer wakes Change display language Change the languages used for partially translated menus and Manage Windows credentials
See more results Word × Log off →
<u> </u>

- Log in and start MS Word.
- If you have any problems, please put your hand up and ask a demonstrator for help.

How to use the equation editor



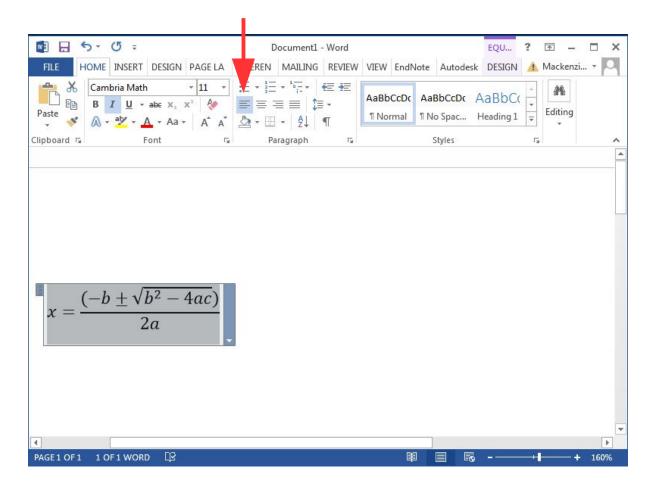


• Please have a go at doing this now, the demonstrators will help you.

Manipulating equations



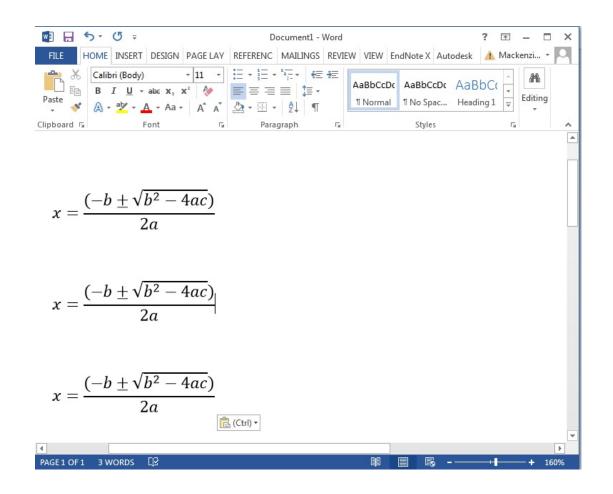
• Select your equation, then left align it.



Manipulating equations



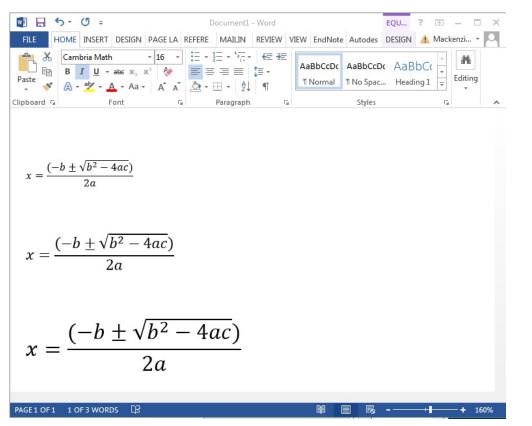
• Then make three copies of it like this



Manipulating equations



• Then make one equation small, and one bigger.



• Do this by selecting it and using the font menu. Dragging the corner does not work.

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Numbering equations and using the numbers to reference equations



- Very often you will want to refer to equations within text.
- Now make your document look like this:

blab la <u>Bla</u> Equation 2 blab <u>Bla</u> blab la <u>Bla</u> blab <u>Bla</u> blab <u>Bla</u> blab la <u>Bla</u> blab <u>Bla</u> blab la <u>Bla</u> blab <u>Bla</u> blab la <u>Bla</u> blab la <u>Bla</u> blab la <u>Bla</u> blab la

y = a + b			1.
y=2a	т		2.
y= <u>a+b+c</u>	÷		3.



- Now using ctrl+x and ctrl+v, swap around the order of the equations.
- What happens to the numbering of the equations in the paragraph?

blab la <u>Bla</u> Equation 2 blab <u>Bla</u> blab la <u>Bla</u> blab <u>Bla</u> blab <u>Bla</u> blab la <u>Bla</u> blab <u>Bla</u> blab la <u>Bla</u> blab <u>Bla</u> blab <u>Bla</u> blab la <u>Bla</u> blab la <u>Bla</u> blab la <u>Bla</u> blab la

y = a + b			1.
y=2a	т	I	2.
y=a+b+c	1		3.



- Exactly, nothing.....
- The numbers you typed are just text.
- Having equation numbers not update automatically is OK for small documents like this but it is not OK for large documents.
- Personally, I find equation number in word a bit crazy and nicer in LibreOffice/Latex but here is the easiest way to do it that I can find.....

Numbering equations: Step 1



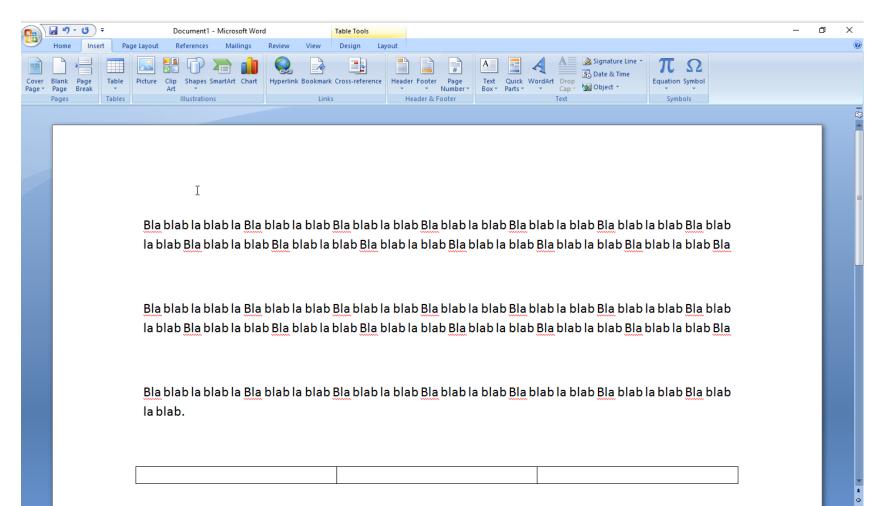
• Insert a table of width three

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	Insert Table	lal
	Draw Table	lał
	Convert Text to Table	Bla
	Excel Spreadsheet	
	Quick Tables	la



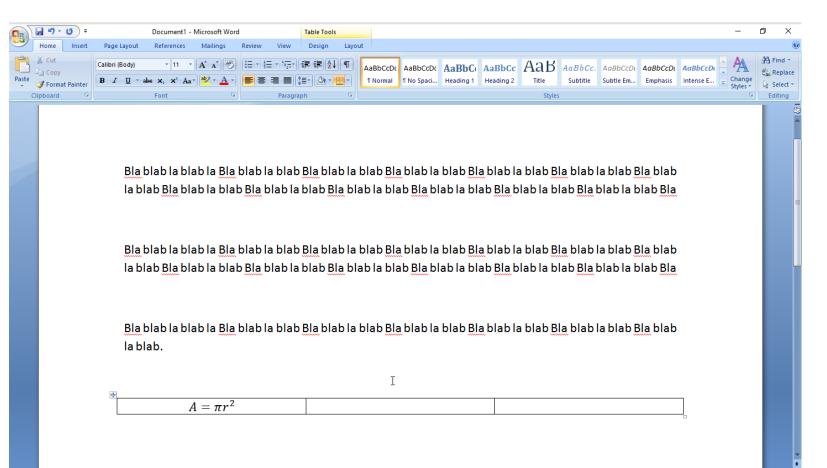


• It should look like this

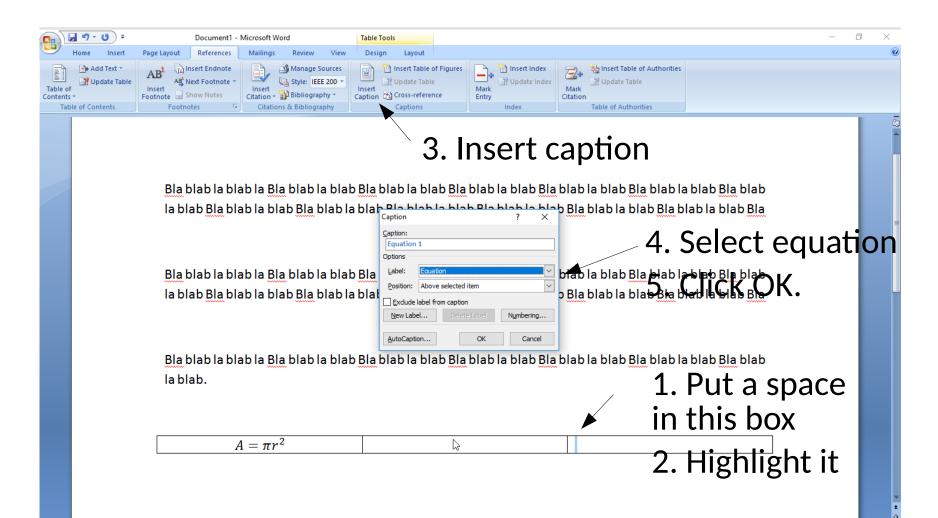




• Now insert an equation into the left most box







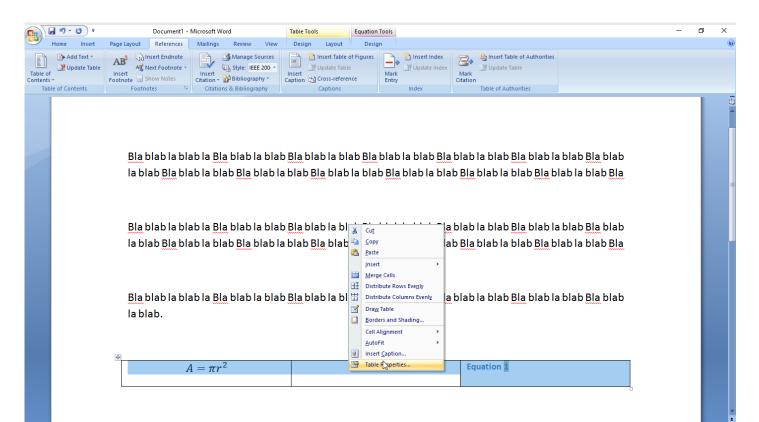


• This should get you to this, it's a bit ugly right?

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- Highlight the table.
- Right click
- A click properties.





- Click on Boarders and Shading.
- Then select None, then OK.

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• The final result

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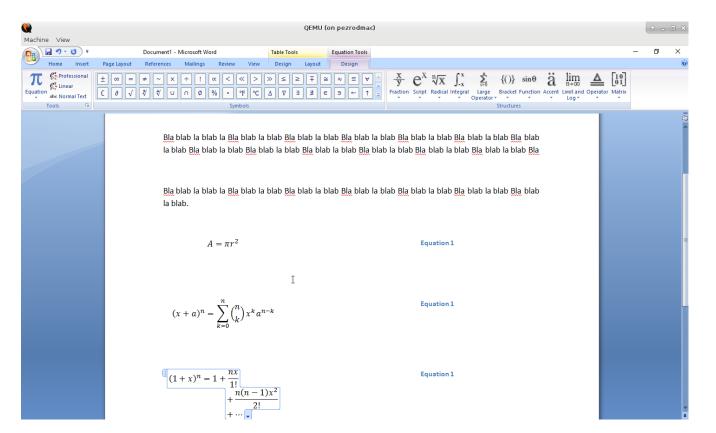
Equation 1

$$A = \pi r^2$$

Using **copy and paste**, copy the table a few times and change the formula.



- So it looks like this
- The equation numbers update.
- Don't worry.



Renumbering the equation numbers automatically



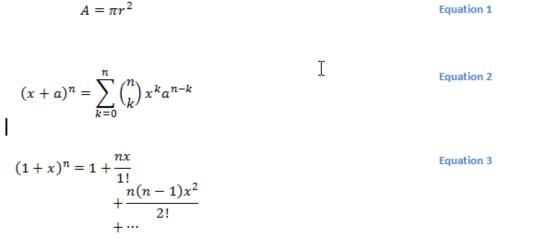
• Now press ctrl+A, then F9

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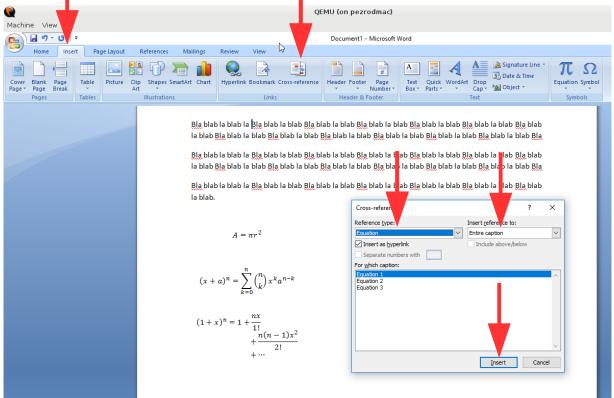


• Now the equations in the document will automatically.

Referencing the equations



- Click somewhere in your text.
- Click, Insert→Cross reference
- Then insert Equation 1



Make your document look like this.



Bla blab la blab la Bla blab la blab Bla blab Equation 3 la blab Bla blab la blab Bla blab la blab Bla blab la blab.

I

 $A = \pi r^2$

Equation 1

 $(x+a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k}$

Equation 2

Equation 3

 $(1+x)^n = 1 + \frac{nx}{1!} + \frac{n(n-1)x^2}{2!}$



Use ctrl+x and ctrl+v swap equation 1 and 2

<u>Bla</u> blab la blab la <u>Bla</u> blab la blab **Equation 2** <u>Bla</u> blab la blab <u>Bla</u> blab la blab <u>Bla</u> blab la blab <u>Bla</u> blab la blab <u>Bla</u>

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Τ

 $A = \pi r^2$

Equation 1

Equation 2

 $(x+a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k}$

 $(1+x)^n = 1 + \frac{nx}{1!} + \frac{n(n-1)x^2}{2!} + \cdots$

Equation 3

• The equation numbers will not update but.....

Press Ctrl+A, then F9, to update the equations.



<u>Bla</u> blab la blab la <u>Bla</u> blab la blab <u>Bla</u> blab Equation **3** la blab <u>Bla</u> blab la blab <u>Bla</u> blab la blab <u>Bla</u> blab la blab <u>Bla</u> blab la blab.

$$(x+a)^{n} = \sum_{k=0}^{n} {n \choose k} x^{k} a^{n-k}$$
Equation 1
$$A = \pi r^{2}$$

$$(1+x)^{n} = 1 + \frac{nx}{1!}$$

$$+ \frac{n(n-1)x^{2}}{2!} + \cdots$$
Equation 3

I suggest you use this approach for all your equations you use.

Lecture outline

UNITED KINGDOM · CHINA · MALAYSIA

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 - The correct way.

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- Numbering images
- Aligning text
- Track changes
- Document comments.
- Document versioning.
- Document storage and backup.

Using references in documents.



• If you are writing text that cites references for example:

INTRODUCTION

In recent years, organic solar cells have shown great promise as a future low-cost source of low carbon electricity.¹ The ability to manufacture organic modules using high volume techniques such as gravure printing² has attracted considerable attention from both academia and industry. Power conversion efficiencies of 7-8% have now been reported.³ Despite this success, there is still considerable debate surrounding the fundamental physics of device operation, and there is still no reliable framework for simulation of the opto-electrical behavior. Key device models such as nongeminate recombination,⁴⁻⁷ mobility,⁸ and the exact nature of the density of states⁹ (DoS) are still hotly debated.¹⁰⁻¹² Part of the problem in finding a correct physical model for organic photovoltaics (OPV) operation is that the current density applied voltage curve (J-V curve) itself does not contain enough information to give insight into the physical transport or

REFERENCES

(1) Bredas, J.-L.; Durrant, J. R. <u>Acc. Chem. Res</u>. 2009, 42, 1689–1690. PMID: 19916562.

(2) Voigt, M. M.; Mackenzie, R. C.; Yau, C. P.; Atienzar, P.; Dane, J.; Keivanidis, P. E.; Bradley, D. D.; Nelson, J. <u>Sol. Energy Mater. Sol. Cells</u> **2011**, 95, 731–734.

(3) Liang, Y.; Xu, Z.; Xia, J.; Tsai, S.-T.; Wu, Y.; Li, G.; Ray, C.; Yu, L. *Adv. Mater.* **2010**, *22*, 1521–4095.

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(5) Shuttle, C. G.; O'Regan, B.; Ballantyne, A. M.; Nelson, J.; Bradley, D. D. C.; Durrant, J. R. *Phys. Rev. B* **2008**, *78*, 113201.

(6) Abarca, A.; Gómez-Sal, P.; Martín, A.; Mena, M.; Poblet, J. M.; Yélamos, C. *Inorg. Chem.* **2000**, *39*, 642–651.

(7) Koster, L. J. A.; Mihailetchi, V. D.; Blom, P. W. M. <u>Appl. Phys.</u> Lett. 2006, 88, 052104.

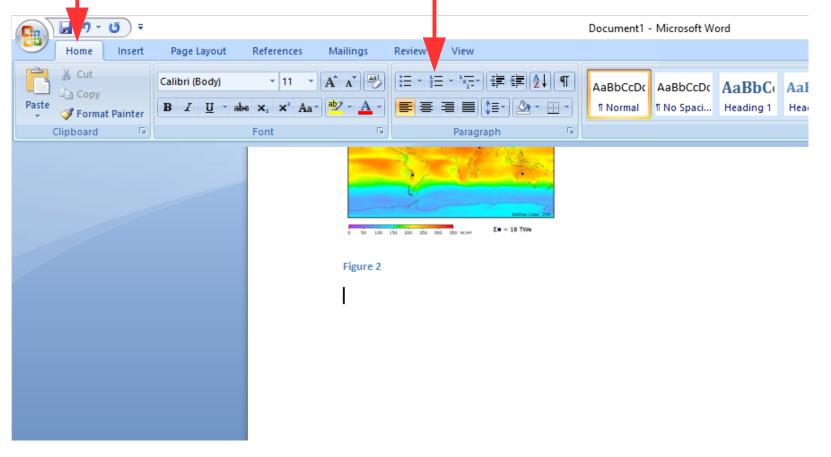
(8) MacKenzie, R. C. I.; Frost, J. M.; Nelson, J. <u>*I. Chem. Phys.*</u> 2010, 132, 064904.

- One way to do this would be to type the references in by hand then.
- Take it from me this is a really bad idea, unless you have < 3 references.

Doing referencing in MS Word (the dirty way)

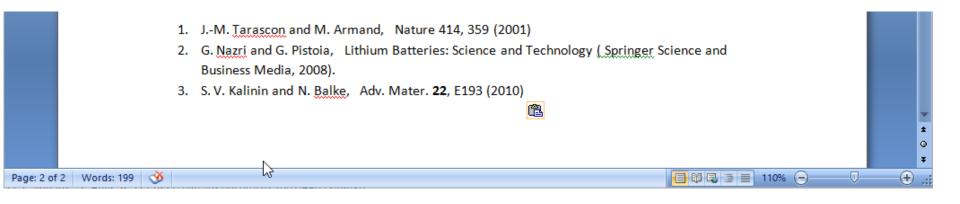


Go to the end of your document.
Click on the home tab, then the numbering icon.



Doing referencing in MS Word

• And then type in the following three references.



• You can make up your own if you want.



Doing referencing in MS Word



- Now go to the top of your text, click references->cross-reference
- Select numbered item, and Paragraph number and then insert.
- If you need to add more references add just add them to your numbered list

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- To update your reference list if for example you have reordered them
- Press: ctrl+A then F9

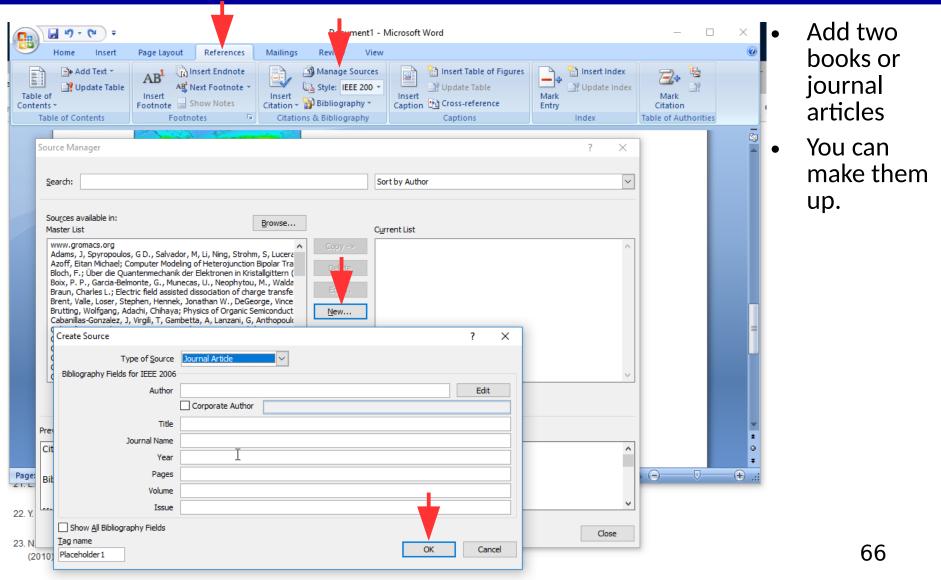
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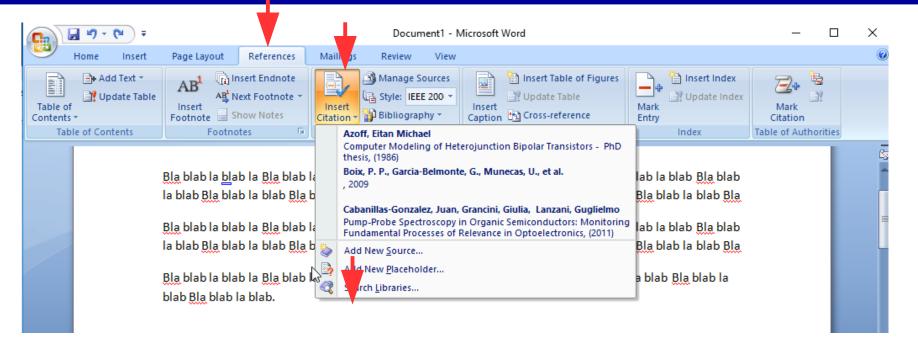
The University of Nottingham

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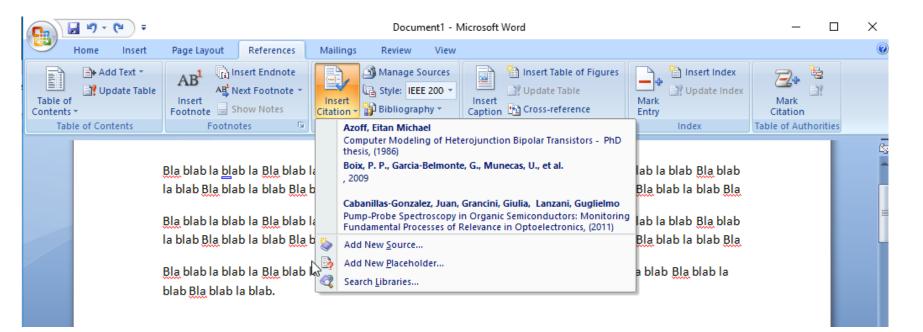
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- Go to the top of your document again, find a place you would like to insert a reference.
- Then go to references \rightarrow insert citation and select the reference you would like to insert.



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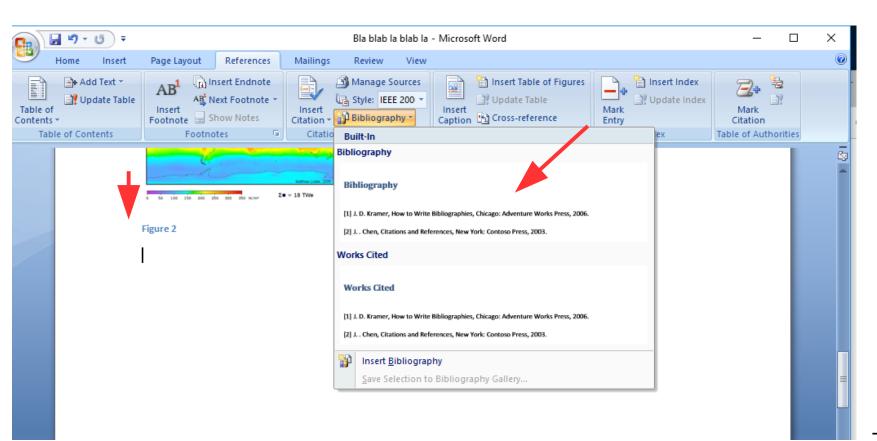
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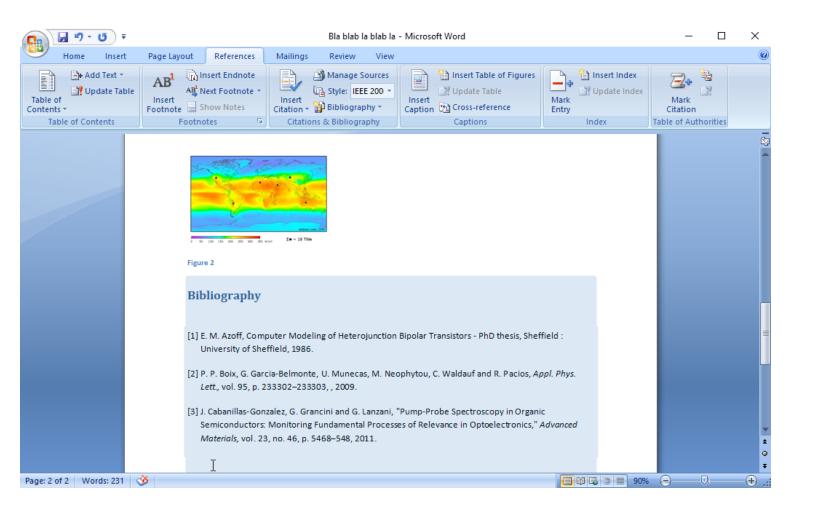
- Now go to the end of your document.
- And click references→Bibliography and select a style.



Doing referencing in MS Word the proper way.



• And you should have a nicely formatted bibliography inserted.



- Hello!, about me
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 - The correct way.

- Headers and footers
- Numbering images
- Aligning text
- Track changes
- Document comments.
- Document versioning.
- Document storage and backup.



- Headers and footers sit at the top and bottom of a document. They typically contain your name, and a page number.
- Think about applying for a job and someone drops the whole pile of CVs on the floor. How will they match up the pages of your CV?

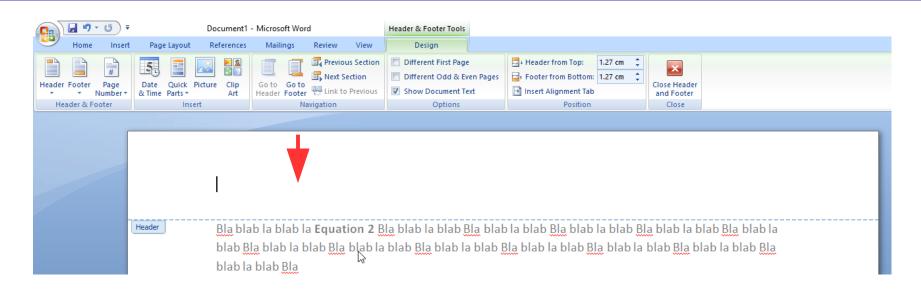
Adding headers and footers in MS Word



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Adding headers and footers in MS Word





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Adding headers and footers in MS Word



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- Then you can arrange the page number and your name to look nice.
- If you then make a new page the numbers will automatically update.

- Hello!, about me
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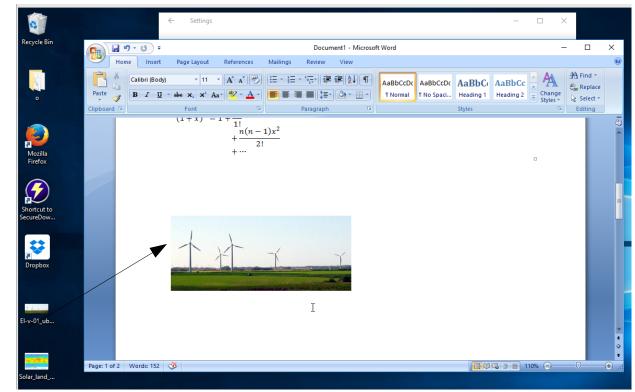
- Headers and footers
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Firstly let's get some images from the web:

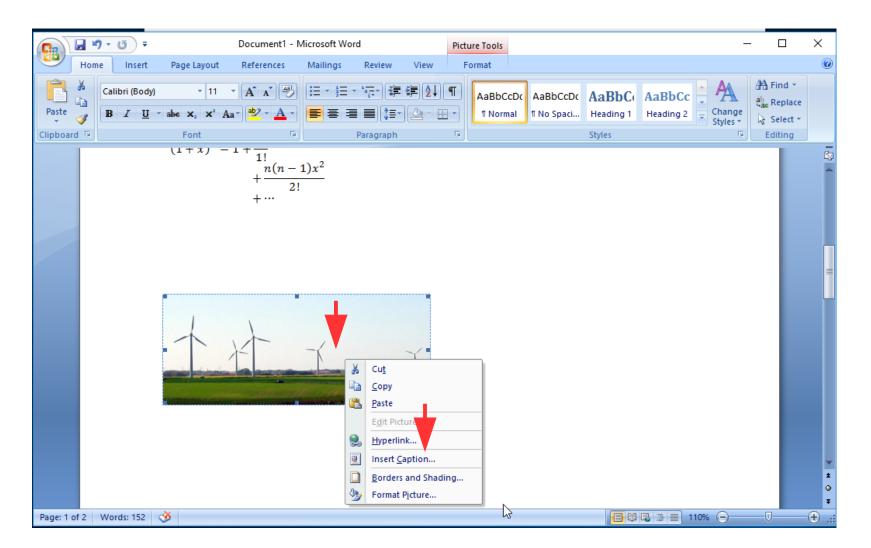


- Download two images and save them to your desktop.
- If you can't do this ask a demonstrator.
- Drag and drop these images into Word.



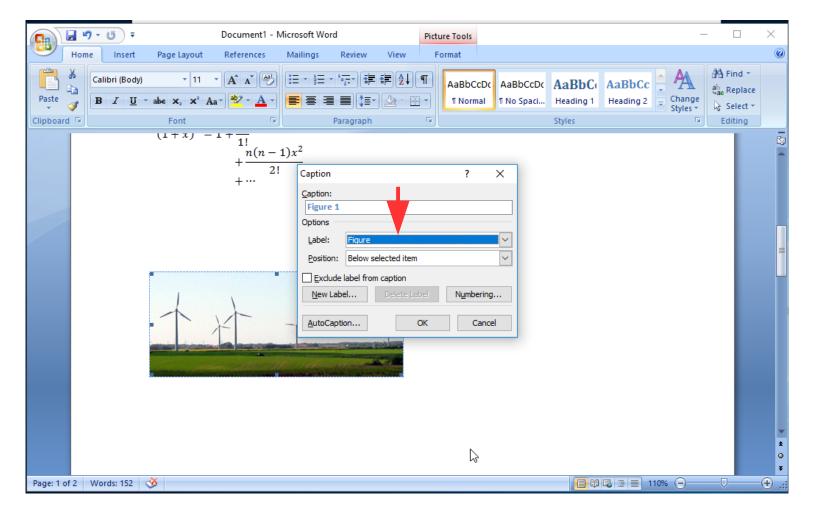


• Right click on the image on the image and click Insert Caption.



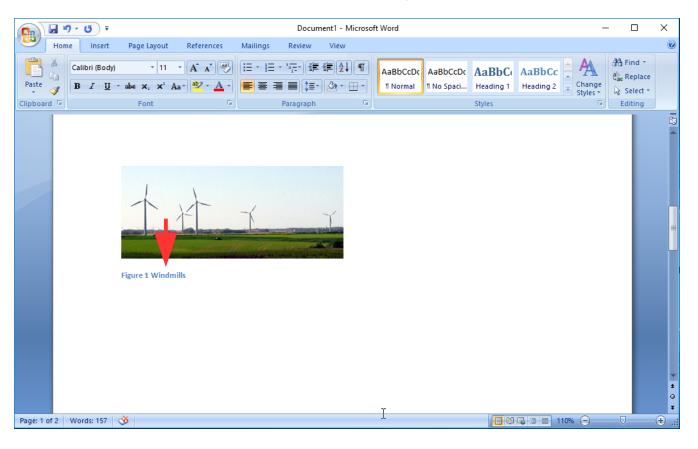


- Select figure, then click OK.
- Do this to the second image.





• Now add some text to the figure.



• Try to add enough text so the reader can understand the figure without having to read the whole test.



- Go back to the text and click references \rightarrow Cross-reference, just as we did for the equation but this time insert a figure reference.
- Then click insert.

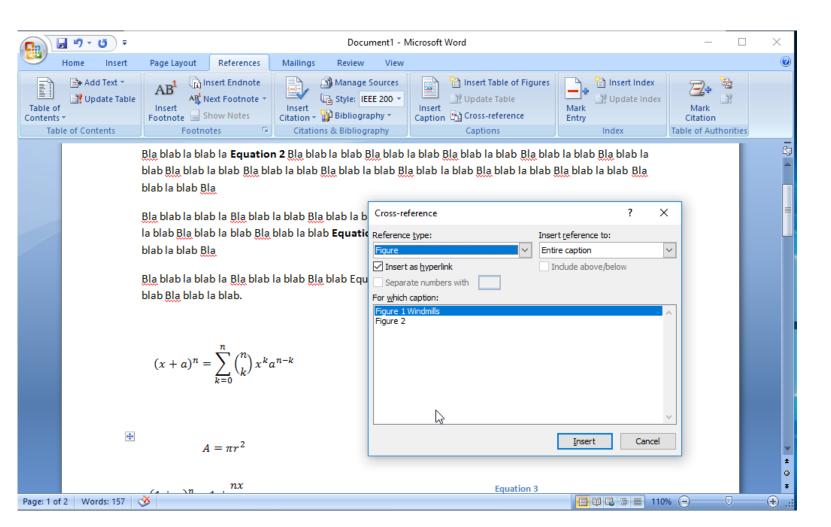
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- You can now automatically reference figures as well as equations.
- Remember, ctrl+A and then F9 to update all references in a document.

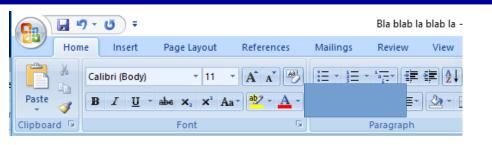


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- Document storage and backup.

Aligning text





• Left align

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Tables



- We have covered tables already but just a few more words on them.
- They are generally used to store information.
- Be careful how you use them. They can get confusing very quickly.

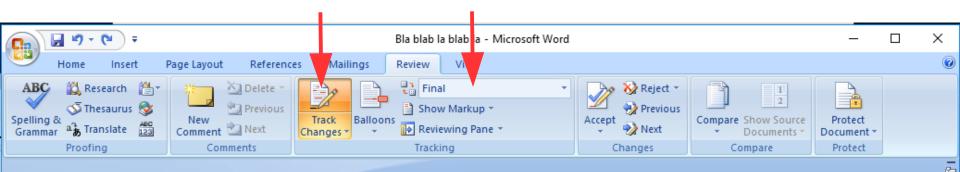
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- Go back to the top of your document and select Track changes
- Then set set the drop down dialog box to Final



1Roderick MacKenzie



• I made some changes.

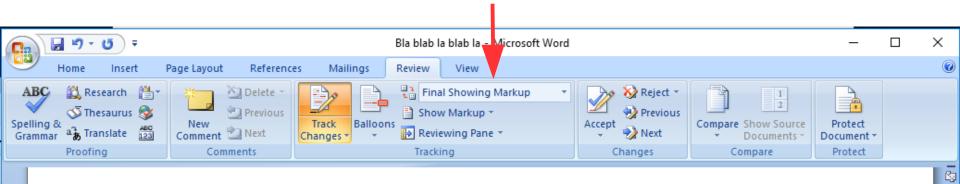
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- Now change this to final showing mark up
- You will be able to see your changes to the document.



1Roderick MacKenzie

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- By right clicking on the change you can accept or reject it.
 This is very useful when sending documents to a supervisor or
 - when editing a document with multiple people.

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1Roderick MacKenzie

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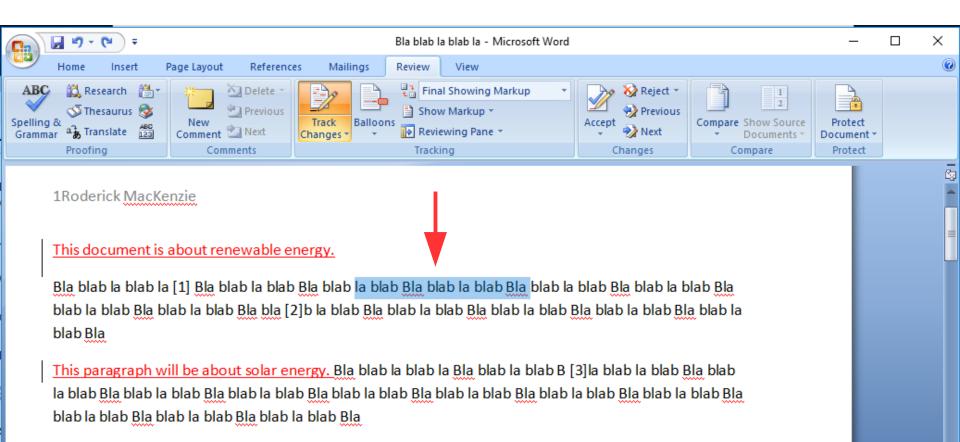
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## Comments



- Sometimes you want to add comments to a document, or your supervisor will want to comment on what you have written.
- Select the text you want to comment on

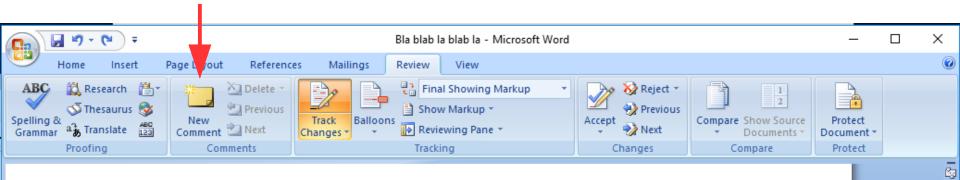


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## Comments



• Then click on the comment icon



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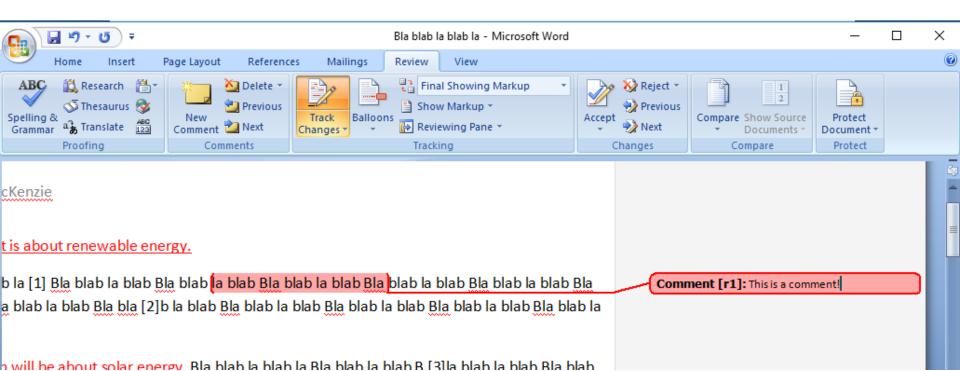
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## Comments



- A balloon should appear into which you can type a comment.
- Hide this comment by changing "Final showing Markup" to "Final."



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# Final word on backups and document versioning.



- So you can get back to changes you make in your document, I suggest that every time you make a major change to it, you save it as a different file name.
  - my_document_0.doc
  - my_document_1.doc
  - my_document_2.doc
  - my_document_3.doc
  - my_document_4.doc
  - .....
  - my_document_21.doc
- This way you will be able to track changes to the document.
- I suggest you never delete an old version of the document.

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- The C: drive on university computers gets wiped almost every day.
- If you save work there you will lose it!
- If you want to save work at university save it to you z: drive.
- I would also suggest saving it to at least one USB stick.
- Although, USB sticks often break or get lost.
- If you data is not in three physically different places just assume you have already lost it.
- Think what would happen if your house burnt down (or got burgled) and you lost your laptop on the same day.....