

Today's lecture

- Storing information using ASCII
- Word processor basics:
 - ▶ File formats
 - ▶ WYSIWYG
- ▶ Basic features of a word processor:
 - ► Font and paragraphs
 - Styles
 - ► Headers, footers, footnotes, endnotes
- Referencing

ASCII

- ► ASCII = American Standard Code for Information Interchange
- Associates English characters with numbers meaning text in documents can be stored as strings of binary
- ► Each ASCII code is 7 bits long, meaning ASCII can represent 128 characters
- ► There are other encoding schemes such as UTF-8 and Unicode

ASCII

► Excerpt of an ASCII table

										- 1
Α	65	L	76	W	87	g	103	r	114	6
В	66	M	77	Χ	88	h	104	S	115	
С	67	N	78	Υ	89	i	105	t	116	
D	68	0	79	Z	90	j	106	u	117	
Ε	69	Р	80			k	107	٧	118	
F	70	Q	81	а	97	I	108	W	119	
G	71	R	82	b	98	m	109	Χ	120	
Н	72	S	83	С	99	n	110	у	121	
I	73	Т	84	d	100	0	111	Z	122	
J	74	U	85	е	101	р	112			
Κ	75	V	86	f	102	q	113			/

ASCII

▶ What is the ASCII code for 'EASY'?

E	Α	S	Υ	
69	65	83	89	

▶ What is the ASCII code for 'CompSci'?

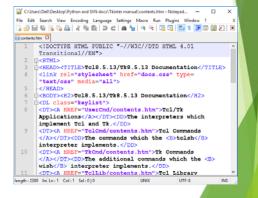
С	0	m	р	S	С	i
67	111	109	112	83	99	105

ASCII

- Text you type: YES
- The text in ASCII: 89 69 83
- Binary stored by the computer: 1011001 1000101 1010011

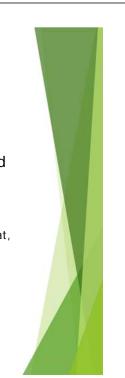
Text editors

- Application software that enables the user to edit text
- ▶ Text is stored using ASCII or another encoding scheme
- Used to edit:
 - ► Text files (.txt)
 - ▶ Configuration files
 - ▶ Source code
- **Examples**:
 - NotepadNotepad++
 - TextPad



Word processors

- ► Application software that enables the user to edit text *and* add formatting to the text
- ► Files created by word processors store text and formatting information according to a format
 - ▶ Proprietary standards, eg. Word file format (.doc)
 - ▶ Open standards, eg. OpenDocument format (.odt)
 - Microsoft products now use the Office Open XML format, arguably an open standard
- Examples:
 - Microsoft Word
 - ▶ Apple Pages
 - OpenOffice Writer



WYSIWYG

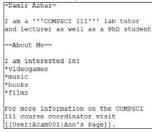
- ▶ What You See Is What You Get WYSIWYG
- ▶ The document created using the word processor's GUI is the same as the document that comes from the printer



WYSIWYG

 Computer code is usually not WYSIWYG (eg. wiki markup, LaTeX code, HTML)

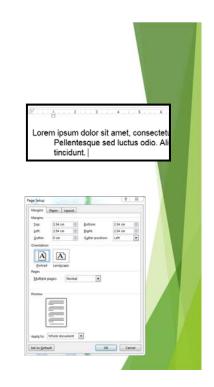
What you see



What you get Damir Azhar I am a COMPSCI 111 lab tutor and lecturer as well as a PhD student. About Me I am interested in: * videogames * music * books * films For more information on the COMPSCI 111 course coordinator wish Ann's Dane

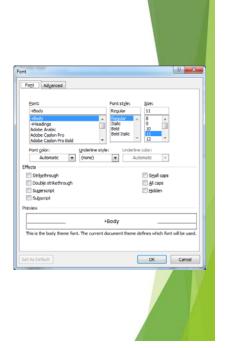
Basic features

- ► Editing text:
 - ▶ Spelling and grammar checker
 - ► Aligning text using the margins and ruler
- ► Clipboard:
 - ▶ Cut, copy, paste
- ► Formatting:
 - Changing font
 - ▶ Change document settings
 - ▶ Format paragraphs



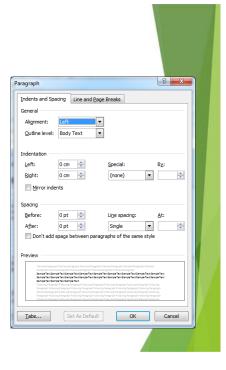
Font

- Font window lets you change:
 - ▶ Font
 - ► Style (bold, italic)
 - ► Size (in points)
 - Colour
 - ► Effects (strikethrough, subscript superscript)



Paragraphs

- Paragraph window lets you change:
 - ► Alignment
 - ▶ Indentation
 - Spacing
 - ➤ The 'Line and Page Breaks' tab let you adjust how the paragraph behaves between pages

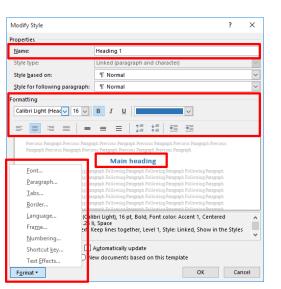


Styles

- ▶ A named group of formatting changes that can be applied to text in the document
- ► Advantages:
 - ▶ Gives the document a consistent appearance
 - ► Makes applying formatting faster:
 - ▶ Select the content and apply the style.
 - Modified the style and all content using the style have their formatting updated automatically.



Styles



Headers and footers

▶ Header: content found in the top margin of every page



I Based heavily on material from Wikinedia

Based heavily on material from Wikinedia

¹ Based heavily on material from Wikipedia

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Footnotes and endnotes

- ► Footnote:
 - ▶ small note located at the bottom of *a* page.
 - Provides more information about something in the main text.

HISTORY¹

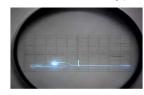
Video games originated from early cathode ray tube based missile defense games in the late 1940's. These programs were adapted into other simple games during the 1950's, more video games were developed (generally running on maniframe computers) gradually increasing in sophistication and complexity. Eventually video games became available on different platforms: areade, mainframe, console, personal computer and later handheld devices.

The Beginning

The question of what is the first video game is a controversial one, but it is generally thought that the 'Cathode Ray Tube Amusement Device' patented in 1947 and released in 1948 is the earliest known video game. The game was a missile simulator inspired by radar displays from World War III. Analogue circuitry was used to control a CRT beam and position a dot on the

¹ Based heavily on material from Wikipedia

screen and screen overlays were used as targets since the device was not able to render graphics.



Other video games based on cathode ray tube hardware followed including "OXO" (a tic-tac-toe game), and "Tennis for Two" (shown on the previous page).

1950's and 1960's

Video games eventually moved from running on cathode ray tube devices to university main frame computers, primarily in the United States. Due to the fact that video game development was

Footnotes and endnotes

► Endnote: text that appears at the *end* of the document

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Suspendisse elit tellus, feugiat sed nibh eget, eleifend varius diam. Fusce dictum, magna eu varius tincidunt, velit arcu scelerisque arcu, in laoreet eros neque vitae velit, Nulla sed diamor orci, in euistriod mauris maximus Aeneun empus libero a dolor elementum, ac egestas diam venenatis. Nunc ut sem a elit vehicula malesuada. Nam rhoncus, purus non cursus tristique, odio ante condimentum turpis, at sagittis

Formatting symbols

▶ Formatting symbols are non-printing characters that are used to mark spaces, paragraphs and page breaks etc. in a document

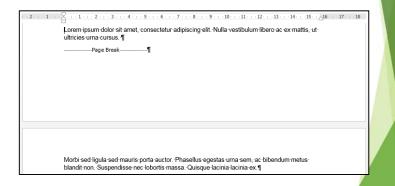


Examples of formatting symbols:



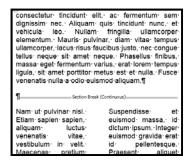
Page breaks

Page breaks mark where the current page ends. Anything below the page break is moved to the next page of the document



Section break

- ► Section breaks mark the point where one section ends and a new section begins
- Individual sections can have their own formatting



Section break

- Two kinds of section break:
 - ► Continuous: the new section begins on the same page as the original section
 - ▶ Next page: the new section begins on a new page after the original section



Plagiarism

- ► Involves taking another person's ideas, words or inventions and presenting them as your own.
- ▶ It includes:
 - paraphrasing or summarizing another person's work
 - using graphs, images or other media from someone else's work
- ▶ This is a serious breach of academic integrity
 - ► See the University's academic integrity policy
- ▶ All material, whether directly quoted, summarised or paraphrased, *must be acknowledged properly*.
- ► <u>Referencite</u> has a good guide on when and how to reference

References and citations

Citation

- ▶ Tells readers where the information came from.
- Within the text.

fledgling industry. There were several reasons for the crash, with most of the blame being attributed to the saturation of the market with hundreds of generally low quality titles (Kent, 2001).

Reference

- Provides details about the source.
- Should enable reader retrieval of source.
- ▶ Found at the end of a document.

REFERENCES

Kent, S. L. (2001). The ultimate history of video games: From pong to pokémon and beyond The story behind the craze that touched our lives and changed the world (1st ed.). Roseville, Calif.: Prima Pub.

RefWorks

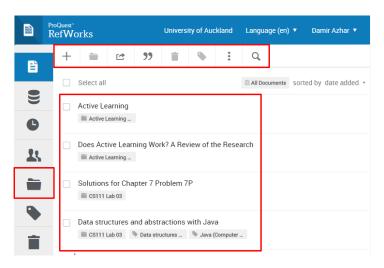
- ▶ Online reference manager; used to manage references and insert them into your documents
- ▶ Bibliographic information can be entered manually, loaded from the UoA library catalogue or loaded from a database
- ► References are generated in accordance with a wide variety of referencing styles



RefWorks

- Advantages:
 - ▶ Web-based, so you can access it from any computer, regardless of operating system
 - ▶ Supports a range of databases and referencing styles
 - ► The Write-n-Cite plugin for Word allows you to insert references directly from Refworks
 - ► UoA students get a free Refworks account: https://www.library.auckland.ac.nz/refworks/

RefWorks



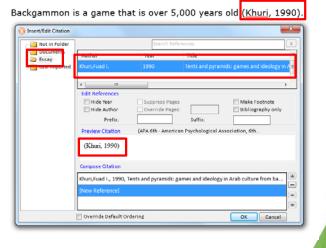
Write-N-Cite

- ▶ A plugin for Microsoft Word that enables the user to insert references when working in their document
- Refworks can be accessed by clicking on the 'ProQuest' or 'Refworks' tab
 - Using Refworks, you can insert citations and bibliographies



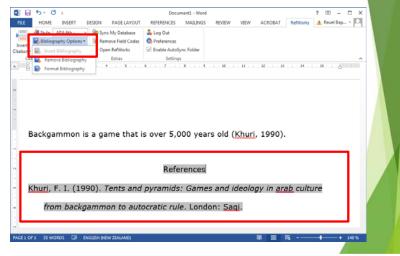
Write-N-Cite

► Inserting a reference using Refworks



Write-N-Cite

► Inserting a bibliography using Refworks



Exercises

▶ What word has been represented using ASCII?

67 108 97 115 115

- ▶ What are formatting symbols and what are they used to mark?
- ▶ Name one advantage of using styles

Summary

- Overview of the ASCII code
- Distinction between text editors and word processors
- ▶ Basic features of a word processor
- Referencing using Refworks