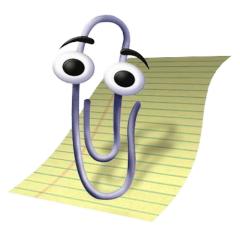
Word processing

Lecture 9 - COMPSCI111/111G SS 2020



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 = 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

Excerpt of an ASCII table

Α	65	L	76	W	87	g	103	r	114
В	66	Μ	77	Х	88	h	104	S	115
С	67	Ν	78	Y	89	i	105	t	116
D	68	0	79	Z	90	j	106	u	117
Е	69	Р	80			k	107	V	118
F	70	Q	81	a	97	I	108	W	119
G	71	R	82	b	98	m	109	Х	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		

What is the ASCII code for 'EASY'?

E	Α	S	Y
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

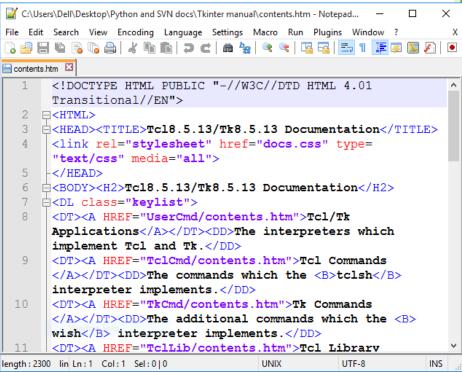
- Text you type: YES
- The text in ASCII: 89 69 83
- Binary stored by the computer: 1011001 1000101 1010011

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:

- Notepad
- ▶ Notepad++
- TextPad



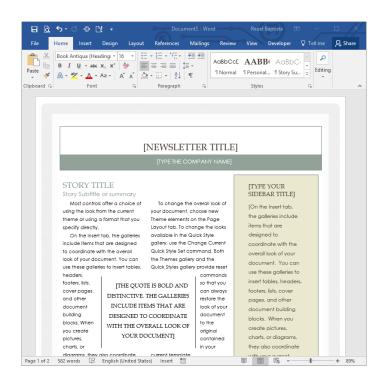
Word processors

- 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

=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 visit [[User:Acam001|Ann's Page]].

What you get

Damir Azhar

I am a ${\bf COMPSCI\,111}$ lab tutor and lecturer as well as a PhD student.

About Me

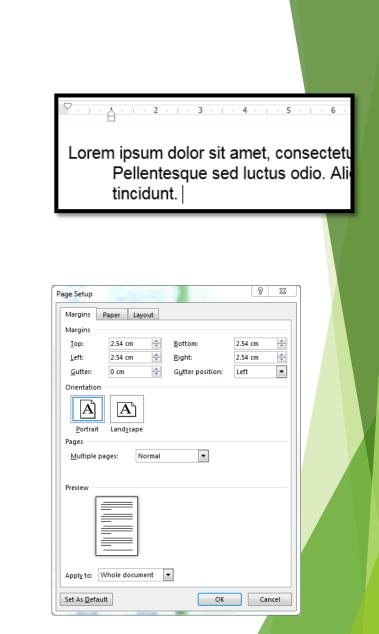
I am interested in:

- videogames
- music
- books
- films

For more information on the COMPSCI 111 course coordinator visit <u>Ann's Page</u>.

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)

Font Advanced	? <mark>x</mark>								
Eont: Font style: Size: +Body Regular 11 +Body Regular 11 +Headings Italic 10 Adobe Arabic Bold 10 Adobe Caslon Pro Adobe Caslon Pro Bold 10 Font golor: Underline style: Underline color: Automatic (none) Automatic Effects Strikethrough All caps Double strikethrough All caps All caps Sugerscript Hidden									
Preview +Body This is the body theme font. The current document theme defines which font will be used.									

Paragraphs

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

Paragraph			? ×						
Indents and Spa	acing Line and [age Breaks							
General									
Alignment:	Left	-							
Outline level:	Body Text	v							
Indentation Left: Right:	0 cm 💌 0 cm 💌 nts	Special: (none) ▼	В <u>у</u> :						
Spacing									
Before:	0 pt 🚖	Line spacing:	<u>A</u> t:						
After:	0 pt 🍦	Single 💌							
Don't add space between paragraphs of the same style Preview Prev									
	Set As Defa	ult OK	Cancel						

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

Modify Style	?	×						
Properties								
<u>N</u> ame:	Heading 1							
Style type:	Linked (paragraph and character)	\sim						
Style <u>b</u> ased on:	¶ Normal	\sim						
Style for following paragraph:	¶ Normal	\sim						
Formatting Calibri Light (Heac 🗸 16 🗸 E 🔳 = = = = = =								
Previous Paragraph P								
Fra <u>m</u> e Xt Ki <u>N</u> umbering Shortcut <u>k</u> ey	bri Light), 16 pt, Bold, Font color: Accent 1, Centered , Space eep lines together, Level 1, Style: Linked, Show in the Styles Automatically update w documents based on this template OK Canc	<pre></pre>						

Headers and footers

Header: content found in the top margin of every page

Printed for Damir Azhar

Video Games

Video games are a form of interactive entertainment; they are electronic games that enable a user (gamer) to generate visual feedback on a video device via interaction with a user interface. Although the "video" part of "video games" was originally a reference to raster display devices, this has now been generalized to any display type.

Footer: content found in the bottom margin of every page

was a missile simulator inspired by radar displays from World War II. Analogue circuitry was used to control a CRT beam and position a dot on the

¹ Based heavily on material from Wikipedia

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

Footnote:

- small note located at the bottom of a page.
- Provides more information about something in the main text.

HISTORY¹

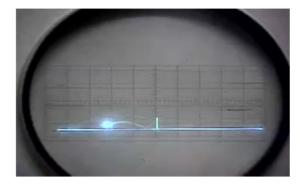
Video games originated from early cathode ray tube based missile defense games in the late 1940's. These programs were adapted into other simple games during the 1950's. By the late 1950's and through the 1960's, more video games were developed (generally running on mainframe computers), gradually increasing in sophistication and complexity. Eventually video games became available on different platforms: arcade, 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 II. Analogue circuitry was used to control a CRT beam and position a dot on the

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.ⁱ

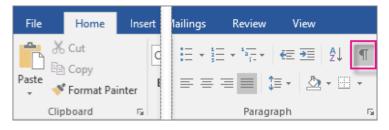
Suspendisse elit tellus, feugiat sed nibh eget, eleifend varius diam. Fusce dictum, magna eu varius tincidunt, velit arcu scelerisque arcu, in laoreet eros neque vitae velit. Nulla sed

dolor orci, in euismod mauris maximus ia. Aenean tempus 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

ⁱ This material is mostly from Wikipedia

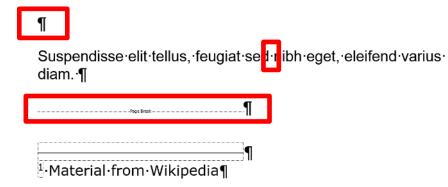
Formatting symbols

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



Examples of formatting symbols:

Lorem·ipsum·dolor·sit·amet,·consectetur·adipiscing·elit.1



Page breaks

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

1 · 2 · 1 · 1 · · · 2 · 1 · 1 · · · 2 · 1 · 3 · 1 · 4 · 1 · 5 · 1 · 6 · 1 · 7 · 1 · 8 · 1 · 9 · 1 · 10 · 11 · 12 · 13 · 14 · 15 · 14 · 15 · 16 · 17 · 1 · 18 ·
Lorem-ipsum-dolor-sit-amet,-consectetur-adipiscing-elitNulla-vestibulum-libero-ac-ex-mattis,-ut-ultricies-urna-cursus¶
Page Break¶
Morbi-sed-ligula-sed-mauris-porta-auctor. Phasellus-egestas-urna-sem, -ac-bibendum-metus- blandit-non. Suspendisse-nec-lobortis-massa. Quisque-lacinia-lacinia-ex.¶

Section break

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

consectetur tincidunt elit, ac fermentum sem dignissim nec. Aliquam quis tincidunt nunc, et vehicula leo. Nullam fringilla ullamcorper elementum. Mauris pulvinar, diam vitae tempus ullamcorper, lacus risus faucibus justo, nec congue tellus neque sit amet neque. Phasellus finibus, massa eget fermentum varius, erat lorem tempus ligula, sit amet portitor metus est et nulla. Fusce venenatis nulla a odio euismod aliquam.¶									
¶Section Break (Continuous)									
Nam· ut· pulvinar· nisl.·	Suspendisse et								

Nam · ut · pulv	/inar∙ nisl.∙	Suspendisse et
Etiam · sapier	n ∙ sapien, ·	euismod· massa,· id·
aliquam	luctus.	dictum·ipsum.·Integer·
venenatis	vitae,·	euismod · gravida · erat ·
vestibulum·	in∙ velit.∙	id pellentesque.
Maecenas [.]	pretium	Praesent aliquet

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.
- Referencite 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:

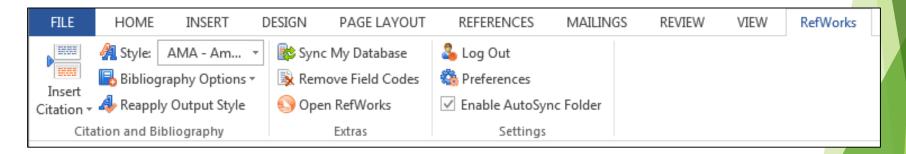
- Web-based, so you can access it from any computer, regardless of operating system
- Supports a range of databases and referencing styles
- The Write-n-Cite plugin for Word allows you to insert references directly from Refworks
- UoA students get a free Refworks account: <u>https://www.library.auckland.ac.nz/refworks/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

RefWorks

	oQuest° ef₩o	orks			University of Auckland Lang				ge (en) 🤊	Damir Azhar 🔻		
Ē	+	-	Ċ	"	Ξ.	•	•	Q				
		Select all						All Doc	uments S	orted	by date addec	•
9 0		Active Learning										
1		 Does Active Learning Work? A Review of the Research Active Learning 										
		Solutions for Chapter 7 Problem 7P										
•		Data structures and abstractions with Java										

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

Backgammon is a game that is over 5,000 years old (Khuri, 1990).

S Insert/Edit Citation				x				
Not in Folder	Search References							
- Document - 🦢 Essay	Addion	icar	THE	-				
Lost imported	Khuri,Fuad I.	1990	Tents and pyramids: games and ideology	y in A ≘				
	III			4				
	Edit References	_	_					
	Hide Year	Suppress Pages						
	Hide Author	Override Pages		y I				
	Prefix:		Suffix:					
	Preview Citation	(APA 6th - America	n Psychological Association, 6th					
	(Khuri, 1990)							
	Compose Citation							
	Khuri,Fuad I., 1990, T	ents and pyramids: ga	ames and ideology in Arab culture from ba					
	[New Reference]							
	🔲 Override Default Or	dering	OKCance	:				

Write-N-Cite

Inserting a bibliography using Refworks

w] 🔒	5-	ت =			Docur	ment1 - Word					? 3	-	×
FILE	HOME	INSERT	DESIGN	PAGE LAYOUT	REFERENCES	MAILINGS	REVIEW	VIEW	ACROBAT	RefWorks	🔔 Re	uel Bap.	
Insert Citation CI	E Biblio	APA 6th - graphy Option ert Bibliography nove Bibliograp mat Bibliograp	s • 🛐 Re / Op phy	rnc My Database emove Field Codes pen RefWorks Extras 4 · · · · 5 · · · ·	Log Out ♣ Preferences ✓ Enable AutoSy Setting: 6 · · · · 7 · · · ·	5	· · 10 · · ·	· 11 · · ·	· 12 · + · 13	• + • 14 • • •	15	1 .	*
	Backg	ammon	is a ga	ame that is	s over 5,0	00 year	s old (Khuri	, 1990).				
References Khuri, F. I. (1990). <i>Tents and pyramids: Games and ideology in arab culture</i> <i>from backgammon to autocratic rule</i> . London: Sagi.													
PAGE 1 C		vords Ω≆	ENGLISH (N									_	

Exercises

What is the ASCII code for the word Midterm?

- (a) 108 104 99 115 100 113 108
- (b) 77 73 68 84 69 82 77
- (c) 109 105 100 116 101 114 109
- (d) 78 74 69 85 70 83 78
- (e) 77 105 100 116 101 114 109

Exercises

Which of the following statements is **TRUE**?

- (a) Using styles makes formatting faster and can give a document a consistent appearance.
- (b) A style is a named group of formatting decisions.
- (c) Using a text editor for programming is typically not WYSIWYG.
- (d) Sections, separated by a section break, can be independently formatted.
- (e) All of the above.

Exercises

Which of the following statements is FALSE?

- (a) Notepad++ is an example of a text editor.
- (b) An endnote is text that appears at the end of the document.
- (c) A footnote is content found in the bottom margin of every page.
- (d) Speed and consistency are two advantages of user defined styles.
- (e) Programming code is usually not WYSIWYG.

Summary

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