

Support resources and links

Unit 3AAIT AND 3BAIT

This booklet has been prepared to assist teachers presenting the Stage 3 course in Applied Information Technology. The textual references, web links and other resources are intended to be used as a guide. The nature of this content will require regular modification and updates to the resources.

Suggested Texts

Discovering Computers 2008

Gary B. Shelly
Thomas J. Cashman
Misty E. Vermaat

[Companion Website](#)

Cambridge Checkpoints 2007

VCE IT Applications

Colin Potts

ISBN: 978-0-52169-710-1

Information Technology

VCE Information Technology Units 1 and 2
VCE Information Technology Units 3 and 4

Michael Fitzpatrick
Therese Keane
James Lawson
Melanie Scott

ISBN-13: 9780170130264 ISBN-10:
0170130266

Information and Software Technology

A Project-Based Approach

David Grover
John Range
Heather Knights
Eamon Gormley
Sonia Perri

[Companion Website](#)

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Disclaimer

Any resources such as texts, websites and so on that may be referred to in this document are provided as examples of resources that teachers can use to support their learning programs. Their inclusion does not imply that they are mandatory or that they are the only resources relevant to the course.

UNIT 3A and 3B: Essential Content

Context: 3A: Evolving information and communication technologies
3B: Information and communication technologies in industry

SOCIAL IMPLICATIONS AND TRENDS	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Impact of ICT on individuals, communities, and environments (3A) Examine the impacts on developers of new technologies and the choices that users make in relation to: <ul style="list-style-type: none"> behaviour and relationships of individuals 	<ul style="list-style-type: none"> Virtual Worlds e.g. Second Life, the SIMs role playing games e.g. World of Warcraft 	Discovering Computers Chapter 11 Information Technology Chapter 4 Information and Software Technology Chapter 5	Virtual Addiction.com Abuse of social networking sites http://secondlife.com/ List of MMORPG Games Serious Games Social Impact Games-List <ul style="list-style-type: none"> Advertising and branding Business Political and social Projected and upcoming games in all areas Public Policy etc. Simulation Game <ul style="list-style-type: none"> Construction and management simulations Dating simulations Life simulations. Medical simulations. Vehicle simulations Photo simulations etc. On-line Social Interaction-Effects History of e-Waste What Is E-Waste? What Is in a Computer? Teens Go Green with Gizmos
<ul style="list-style-type: none"> the physical environment 	<ul style="list-style-type: none"> industry disposal of old technology climate change sustainable use of paper based products 		
<ul style="list-style-type: none"> community 	<ul style="list-style-type: none"> satellite technology e.g. Google earth, GPS 		
<ul style="list-style-type: none"> finance and the economy 	<ul style="list-style-type: none"> online applications i.e. Web2/3 online auction e.g. e-bay online banking live feeds from stock exchange 		Industry Disposal "byteback" Australia Green PC Why Recycle The Paperless Office UWA Policy

SOCIAL IMPLICATIONS AND TRENDS	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
	<ul style="list-style-type: none"> online retail 		Google Earth NGIA Theory of GPS What is Web2? What is Web3? Addiction to Ebay? Creation of an "on-line" shop Internet Addiction Online gambling
<p>(3B) discuss the impacts of ICT on industries in the community</p> <ul style="list-style-type: none"> analyse the impacts of ICT on individuals and communications working within industries 	<ul style="list-style-type: none"> improved communications increased productivity efficient production processes improved work habits and communications wider employment location choices e.g. telecommuting 		ICT improve productivity ICT is the new innovation in the New Economy OECD-Information Economy Department of Broadband, communications and the Digital Economy Global Communication Globalisation-definition Advantages and Disadvantages for the Teleworker
Values, ethics and inclusivity			
<p>(3A) investigate changing societal values and ethics in the use of ICT</p> <ul style="list-style-type: none"> discuss the implications of identity theft identify the need for inclusivity in the design of ICT products and services discuss digital divide 	<ul style="list-style-type: none"> MySpace, Facebook e.g. monitors for sight impaired, use of icons, subtitles for deaf, equipment for the handicapped availability of ICT resources to both wealthy and poor sectors of the economy 	<p>Discovering Computers Chapter 11</p> <p>Information Technology Chapter 4</p> <p>Information and Software</p>	Social Networking Sites Social networking stands to benefit businesses Teach-ICT-Changing values in our workforce NetAlert-Identity Theft Computer Accessibility Stay Smart online Why inclusivity in web site design? Bank Upgrade excludes the visually impaired Disability and ICT news stories Equal Access and the Web Information Equity Digital Divide Vic Govt website

SOCIAL IMPLICATIONS AND TRENDS	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
<ul style="list-style-type: none"> analyse the ethics of employer and employee relationships in regards to the appropriate use of ICT technologies in the workplace: appropriate legislation 	<ul style="list-style-type: none"> appropriate user policies employer's monitoring of work emails, internet access and computer use security of information and protective measures i.e. Net Alert, cyber stalking, cyber bullying Spam Act Copyright Act Privacy Act 	Technology Chapter 5	Business to Employee News Stories Online Detective – Invasion of your privacy ClickView—Social and Ethical Issues IT Security-20 tips Employee Monitoring-Privacy in the workplace Bullying No Way! Preventing Mobile Data Theft Australian Govt 2003 Spam Act Australian Copyright Council What is copyright? Information Privacy Principles-Privacy Act 1988 AMCOS-APRA Legislation
<p>(3B) discuss the impact of access to global markets on the ability to purchase and use of ICT products:</p> <ul style="list-style-type: none"> investigate end user expectations in differing cultures analyse ethical issues and legislation in industry 	<ul style="list-style-type: none"> worldwide access to products and web sites international news sites online censorship of information interpretation and use of language and images in websites ethics in ICT in an industry context i.e. code of conduct intellectual property i.e. patents, trade marks, registered designs. 		The changing work environment and globalisation Global Communication Globalisation Guide Globalisation-definition World-on-line newspapers Internet Censorship (definition) Internet Censorship Fake News Stories Fake News Sites-CNN case Website Translation, Localization, Language and Culture Ezine Articles -Internet and businesses on-line 10 Commandment of Computer Ethics What is Intellectual Property? (Trademarks—registered designs) Example of Code of Conduct

SOCIAL IMPLICATIONS AND TRENDS	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Past and emerging trends in ICT			
<p>(3A) Explore present and emerging ICT trends</p> <ul style="list-style-type: none"> investigate the convergence of multimedia trends and new developments in technology 	<ul style="list-style-type: none"> digital video and sound online services sport music training and education news and advertising digital maps Haptic technology human kinetics robotics 	<p>Discovering Computers Chapter 14</p> <p>Information and Software Technology Chapter 5</p>	<p>Information Appliances Emerging Trends Datacasting HDTV Digital Signatures in a Pharmacy Future Trends in Business Computing http://en.wikipedia.org/wiki/Technological_convergence Google Earth-Street View-Virtual Globe Pete's Gadgets New Technologies-News Stories www.skype.com <i>Internet Telephony</i> Haptic technology Microsoft Unlimited Potential-Global Trends Microsoft Digital Lifestyle Future Trends What is Web 2.0 Web 2.0 Awards</p>
<p>(3B) analyse the impact of current and emerging trends</p>	<ul style="list-style-type: none"> global market forces—international communications via video conferencing lifestyle choices—remote access to work sites, flexible work hours industry shop 'face'—online presentation via web sites, cross web site advertising 		<p>Ezine Articles</p> <ul style="list-style-type: none"> - Education - Computers and Technology - Gaming - Communications - video conferencing <p>Ezine Articles</p> <ul style="list-style-type: none"> - Internet and Businesses on-line <p>Creating an online shop front</p> <p>Impact of ICT on quality jobs</p>

HARDWARE AND SOFTWARE	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Hardware Components And Functions			
<p>(3A) Investigate and compare different types of computer platforms</p> <ul style="list-style-type: none"> describe current hardware specifications of typical small-scale multimedia production business computer systems for different purposes explain the function of specialised peripheral devices investigate help procedures and other support facilities to support hardware/software functionality 	<ul style="list-style-type: none"> Operating System Platforms e.g. MS Windows and MacOS or Linux Typical small-scale multimedia business hardware <ul style="list-style-type: none"> CPU primary and secondary memory graphics output sound input/output, visual output graphics tablet, interactive whiteboard, video capture cards Forums bulletin boards, on line tutors, live chats, video conferencing. 	<p>Discovering Computers Chapter 9</p> <p>Information Technology Chapter 7</p> <p>Information and Software Technology Chapter 2</p>	<p>Installing OS's-Formatting... Hardware Jargon Guide Operating Systems What is an OS? Different Types of OS's Network Operating Systems Compare OS's</p> <p>http://computer.howstuffworks.com/hardware-channel.htm Descriptions of hundreds of computer devices and peripherals</p> <p>On-line video tutorials for connecting hardware, components, peripherals, networking</p> <p>http://video.about.com/compute.htm videos about all things computing Graphics Hardware PC Architecture http://en.wikipedia.org/wiki/Internet_forum http://en.wikipedia.org/wiki/Live_chat http://www.tutor.com/subjects</p> <p>Computer Help-Support PC Help Help Desk Management Software</p>
<p>(3B) Identify and describe the components, concepts and terminology for the establishment of a small-scale networked computer hardware system</p>	<ul style="list-style-type: none"> network topologies for LANs (star, wireless) network devices (network interface card, switch, router, modem) protocols (TCP/IP, HTTP,HTTPS, SMTP, WAP) transmission media (coaxial, twisted pair, optical, wireless) 		<p>Guide to Networking – Good simple site</p> <p>Network protocols Networking hardware Bridges Routers NICS Switches Repeaters</p>

HARDWARE AND SOFTWARE	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
<ul style="list-style-type: none"> describe the major factors affecting the functioning of ICT equipment within a networked environment knowledge of peripheral devices suited to selected industry requirements 	<ul style="list-style-type: none"> transmission rates, bandwidth limitations computer aided manufacturing (CAM) lathes and devices, high speed photography for movement analysis 		Fileservers Workstations Network cabling Network topology-NOS http://en.wikipedia.org/wiki/Computer_network Network Types Computer Network Devices Protocols Directory Transmission Speeds Computer Networking Network Topology Network Cabling Network Protocols Network Operating Systems Device Bandwidths What is the difference between http and https? http://bc.whirlpool.net.au/ What is CAD/CAM
Applications and systems software			
(3A) Describe the efficient operation and maintenance of system utility tools and accessories <ul style="list-style-type: none"> use and manipulate application software to combine media to create information products 	<ul style="list-style-type: none"> disk cleanup tools i.e. cleanup temporary files, registry files, internet cache disk backup tools disk fragmentation anti malware/virus/spam/spyware animation, audio, image manipulation 	Discovering Computers Chapter 8 Information and Software Technology Chapter 3	Preventative Maintenance Tips for Your PC Computer Maintenance What is Utility Software Business Software Alliance Tech Web
(3B) Explore skills and techniques required to use specialised application packages relevant to selected business/industry <ul style="list-style-type: none"> use techniques and skills to ensure smooth operation of software applications 	<ul style="list-style-type: none"> movement analysis software, business web sites, 3D modelling, business desktop publishing 		3D software list Desktop Publishing Software List

HARDWARE AND SOFTWARE	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Design and acquisition of hardware and software			
<p>(3A) Explain the role and purpose of benchmarking in relation to the design and acquisition of hardware and software</p> <ul style="list-style-type: none"> describe criteria when selecting hardware and software for a specified purpose including the minimum hardware requirements to run software analyse the compatibility issues of running the latest software on current hardware 	<ul style="list-style-type: none"> Benchmarking Selection criteria-purchasing computer hardware-minimum specifications Compatibility Issues with emerging software on current hardware 	<p>Discovering Computers Chapter 13</p> <p>Information Technology Chapter 8</p> <p>Information and Software Technology Chapter 4</p>	<p>Benchmarking Definition What is benchmarking? Benchmarking-Free Tools</p> <p>Computer Workstation Ergonomics Guide to buying a PC</p> <p>Hardware/software compatibility Windows Hardware Compatibility List</p>
<p>(3B) Compare and analyse similar software applications considering:</p> <ul style="list-style-type: none"> investigate the constraints associated with the acquisition and installation of a range of hardware components discuss the use of service level agreements and outsourcing to meet business or industry requirements 	<ul style="list-style-type: none"> design user interface functions technical capabilities configuration ease of use <p>e.g. video cards, monitors</p> <ul style="list-style-type: none"> SLA's Outsourcing 		<p>Human User Interface</p> <p>XP-Vista-Win.X hardware compatibility list</p> <p>The SLA Toolkit Outsourcing-Articles Outsourcing-Effects</p>

DIGITAL DATA AND INFORMATION	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Nature, form and the transfer of data			
(3A) Discuss the impact and use of different file formats on the transfer or distribution of data 			

DIGITAL DATA AND INFORMATION	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Processing and management of data			
<p>(3A) Demonstrate techniques and processes relating to data in a multimedia environment</p> <ul style="list-style-type: none"> minimisation of threats to the integrity and security of data by using passwords, firewalls, encryption, anti-virus software 	<ul style="list-style-type: none"> sourcing, organising, processing, managing and storing data ensuring accuracy, reliability and validity of the data data validation techniques passwords Firewalls Anti-virus software 	<p>Discovering Computers Chapter 7</p> <p>Information Technology Chapter 7</p> <p>Information and Software Technology Chapter 4</p>	<p>Sources of Data Data Organisation Data Processing Data Processing (swf) Data Processing (doc) Data Validation Data Protection Laws</p> <p>Trojan Horses-How they work Firewall Encryption Security of data over networks What is Encryption?</p>
<p>(3B) Investigate how industry manages data including</p> <ul style="list-style-type: none"> discuss the processing of industry (3B) 	<ul style="list-style-type: none"> disaster recovery plan biometrics backup techniques and archiving of data data warehouses data mining and data marts online data management <ul style="list-style-type: none"> call centres based in overseas countries bandwidth limitations of networks compression of data files encryption methods <ul style="list-style-type: none"> data encryption keys digital signatures 	<p>Discovering Computers Chapter 7</p> <p>Information Technology Chapter 7</p> <p>Information and Software Technology Chapter 4</p>	<p>What is Data Mining Biometric News Stories Videos on Biometrics Data Management Process (pdf) Data Mining? Backup-Securing a Business</p> <p>Bandwidth experience Data Formats-Compression Links-Many! Transmission Speeds-Table Comparison of transmission Speeds Device Bandwidths Step by Step Guide to Digital Signatures What is a Certificate Authority? What is PGP? What is Public Key Encryption? What is Encryption?</p>

DIGITAL DATA AND INFORMATION	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Creative application of information design principles			
<p>(3A) Critically evaluate and apply information design principles in the creation of evolving media related technology products</p> <ul style="list-style-type: none"> a specified target audience creative design principles elements of design 	<ul style="list-style-type: none"> Target Audience <ul style="list-style-type: none"> purpose presentation medium parameters of design content navigation structure interface relevant language and terminology Design principles <ul style="list-style-type: none"> balance rhythm proportion dominance unity harmony emphasis Design Elements <ul style="list-style-type: none"> focus point contrast alignment position line texture colour—harmony, spaces typography pattern movement 	<p>Discovering Computers Chapter 12</p> <p>Information Technology Chapters 1 and 2</p> <p>Information and Software Technology Chapter 9</p>	<p>The importance of your Target Audience Marketing Basics Who is the Target Audience-wiki New Media Audience (article) Museum of Fonts Computing and Technology-How to Videos</p> <p>Principles of Design Elements of Design Print and Graphic Design Principles Colours on the Web Colour Wheel Calculator www.creativecurio.com Using CSS Style sheets Comparison of website navigation techniques How to design a Website Design basics Goal orientated Graphic design Site architecture Useability-accessibility Evaluating Web Pages Basic Design Principles Principles of Design Evaluating a website (PDF) How to design a website Design Principles and Design Elements http://webdesignfromscratch.com/ http://www.webdesignfromscratch.com/web-2.0-design-style-guide.cfm</p>

DIGITAL DATA AND INFORMATION	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
<p>(3B) Apply information design principles in the creation and promotion of a corporate identity considering</p> <ul style="list-style-type: none"> ICT solutions across a range of media to suit purpose and intended meaning evaluation of the effectiveness of the ICT solution against the design criteria 	<ul style="list-style-type: none"> inclusivity usability currency and accuracy of data <p>e.g.</p> <ul style="list-style-type: none"> Educate Inform Persuade Entertain 	<p>Discovering Computers Chapter 12</p> <p>Information Technology Chapters 1and2</p> <p>Information and Software Technology Chapter 9</p>	<p><u>Case Study-Corporate Identity-Design principles and Elements-Tasmania</u></p> <p><u>Why be inclusive</u></p> <p><u>Disability and ICT</u></p> <p><u>Developers-Users Responsibilities Computing and Moral Responsibilities</u></p>
WORKPLACE, PRACTICES AND CAREERS	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Career work and jobs			
<p>(3A) Investigate qualifications and training related to evolving technology based employment opportunities</p> <ul style="list-style-type: none"> discuss the impacts of ICT on future career opportunities 	<ul style="list-style-type: none"> Job growth areas versus job loss/reductions 	<p>Discovering Computers Chapter 15</p> <p>Information Technology Chapter 6</p> <p>Information and Software Technology Chapter 6</p>	<p>www.ictwa.org.au/careers</p> <p><u>Jobs in a knowledge-based economy (article)</u></p> <p><u>Web Careers Guide</u></p> <p><u>ICT Careers Baffle Students</u></p> <p><u>Videos on Work/ICT</u></p> <p>http://www.acs.org.au/index.cfm?action=show&conID=careersnemployment</p>
<p>(3B) appropriate industry qualifications</p> <ul style="list-style-type: none"> potential development of new skills and qualifications that arise from the rapid expansion of ICT and globalisation 	<ul style="list-style-type: none"> e.g. MCP, CCNA, CNE web design skills, database skills. 		

DIGITAL DATA AND INFORMATION	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
Work environments and legislation			
(3A) Discuss the impact of legislation affecting evolving technologies	<ul style="list-style-type: none"> Copyright and Copyright Act <ul style="list-style-type: none"> fair dealing private use intellectual property Moral rights Occupational Safety and Health including the OSH Act 	Discovering Computers Chapter 15 Information Technology Chapter 6 Information and Software Technology Chapter 6	WorkSafe Privacy issues Example of Code of Conduct Copyright and moral use WorkSafe Example of Code of Conduct Ergonomics in Australia Healthy Computing Office Ergonomics Computer Workstation Ergonomics Safe Computing
(3B) Investigate changing work environments associated with a global economy <ul style="list-style-type: none"> discuss relevant legislation affecting production in a global market 	<ul style="list-style-type: none"> International work opportunities 'one job for life' theory, qualification recognition e.g. visa restrictions international copyright variations. 		The changing work environment and globalisation One job for life
Technology processes in the workplaces			
(3A) Use and describe common work processes, and storyboards in product development <ul style="list-style-type: none"> analysis of client requirements and needs explain the requirements of individuals or characteristics for the work environment 	<ul style="list-style-type: none"> detailed concept maps proposals, research storyboards concept maps requirements analysis working independently working cooperatively working collectively 	Discovering Computers Chapter 15 Information Technology Chapter 6 Information and Software Technology Chapter 6	How to Storyboard (Web Careers Guide) Why use a storyboard Free Storyboarding Software Storyboard PC - Download online creation of storyboarding with tips etc. Why is storyboarding important

DIGITAL DATA AND INFORMATION	Key Terms	Textual References	Weblinks, Articles, Journals, PDF's, Doc's
<p>(3B) Describe strategies to maintain employees' skill levels in relevant software skilling</p> <ul style="list-style-type: none"> consider project management strategies to encourage flexibility, originality and risk taking in ICT projects 	<ul style="list-style-type: none"> on-the-job training short courses project management strategies 		Videos on Work/ICT

Reference Guide

Other recommended texts

The Digital Photo Idea Book. Kate Binder and Richard Binder, ISBN 0-07-222721-4

Understanding Computers: Today and Tomorrow. Deborah Morley, Charles Parker, ISBN -10: 1418860557

IT at Work, 2nd Edition. Helen Anderson, P Chrisopherson, R Timmer-Arend, Macmillan.

Natcoll Books on software applications: www.natcoll.co.nz.

Multimedia Design Tutorials

Flash, Illustrator, Photoshop, Maya, Other—<http://www.hed.swinburne.edu.au/design/tutorials/>

Application Tutorials

<http://www.teacherclick.com/> (Macromedia)

<http://www.elearnage.com/elearn/index.htm> (Flash MX)

<http://www.kirupa.com/developer/flash/index.htm> (Flash)

<http://www.entheosweb.com/Flash/default.asp> (Flash)

General Internet Resources

www.teach-ict.com (UK website)

<http://whatis.techtarget.com>

www.teacherclick.com (free online computer tutorials)

www.itrainonline.org

www.ssrc.com.au (Senior Students Resource Centre)

<http://aitcos.pbwiki.com>

<http://www.port80.asn.au> (Australian Web Developers Community)

www.thinkfree.com (Big Pond: synchronise files)

<http://del.icio.us/cstansw> (Community exchange for educational bookmarks, free stock photos etc)

SPECIFIC INTERNET RESOURCES

SOCIAL IMPLICATIONS AND TRENDS

[Virtual Addiction.com](#)

[Abuse of social networking sites](#)

<http://secondlife.com/>

[List of MMORPG Games](#)

[Serious Games](#)

[Social Impact Games-List](#)

- Advertising and branding
- Business
- Political and social
- Projected and upcoming games in all areas
- Public Policyetc

[Simulation Game](#)

- Construction and management simulations
- Dating simulations
- Life simulations
- Medical simulations
- Vehicle simulations
- Photo simulations.....etc

[On-line Social Interaction-Effects](#)

[Industry Disposal “byteback” Australia](#)

[Green PC](#)

[Why Recycle](#)

[The Paperless Office](#)

[UWA Policy](#)

[Google Earth](#)

[NGIA](#)

[Theory of GPS](#)

[What is Web2?](#)

[What is Web3?](#)

[Addiction to Ebay?](#)

[Creation of an “on-line” shop](#)

[Internet Addiction](#)

[On-line gambling](#)

[ICT improve productivity](#)

[ICT is the new innovation in the New Economy](#)

[OECD-Information Economy](#)

[Department of Broadband, communications and the Digital Economy](#)

[Global Communication](#)

[Globalisation-definition](#)

[Advantages and Disadvantages for the Teleworker](#)

[Preventing Mobile Data Theft](#)

[Social Networking Sites](#)

[Social networking stands to benefit businesses](#)

[Teach-ICT-Changing values in our workforce](#)

[NetAlert-Identity Theft](#)

[Computer Accessibility-](#)

[Stay Smart on-line-Good website](#)

[Why inclusivity in web site design?](#)

[Bank Upgrade excludes the visually impaired](#)

[Disability and ICT news stories](#)

[Equal Access and the Web](#)

[Information Equity](#)

[Digital Divide](#) Vic Govt website

[Business to Employee News Stories](#)

[Online Detective – Invasion of your privacy](#)

[ClickView—Social and Ethical Issues](#)

[IT Security-20 tips](#)

[Employee Monitoring-Privacy in the workplace](#)
[Bullying No Way!](#)
[Australian Govt 2003 Spam Act](#)
[Australian Copyright Council](#)
[What is copyright?](#)
[Information Privacy Principles-Privacy Act 1988](#)
[The changing work environment and globalisation](#)
[Global Communication](#)
[Globalisation Guide](#)
[Globalisation-definition](#)
[World-on-line newspapers-all](#)
[Internet Censorship-Definition](#)
[Internet Censorship](#)
[Fake News Stories](#)
[Fake News Sites-CNN case](#)
[Website Translation, Localization, Language and Culture](#)
[Ezine Articles](#)
[-Internet and Businesses on-line](#)
[10 Commandment of Computer Ethics](#)
[What is Intellectual Property?-Trademarks-registered designs](#)
[Example of Code of Conduct](#)
[Information Appliances](#)
[Emerging Trends](#)
[Datacasting](#)
[HDTV](#)
[Digital Signatures in a Pharmacy](#)
[Future Trends in Business Computing](#)
http://en.wikipedia.org/wiki/Technological_convergence
[Google Earth-Street View-Virtual Globe](#)
[Pete's Gadgets](#)
[New Technologies-News Stories](#)
www.skype.com *Internet Telephony*
[Haptic technology](#)
[Microsoft Unlimited Potential-Global Trends](#)
[Microsoft Digital Lifestyle](#)
[Future Trends \[What is Web 2.0\]\(#\)](#)
[Web 2.0 Awards](#)
[Ezine Articles](#)
[-Education](#)
[-Computers and Technology](#)
[-Gaming](#)
[-Communications](#)
[-video conferencing](#)
[Ezine Articles](#)
[-Internet and Businesses on-line](#)
[Creating an online \[shop\]\(#\) front](#)
[Impact of ICT on quality jobs](#)
[History of e-Waste](#)
[What Is E-Waste?](#)
[What Is in a Computer?](#)
[Teens Go Green with Gizmos](#)

HARDWARE AND SOFTWARE

[Installing OS's-Formatting...](#)

[Hardware Jargon Guide](#)

[Operating Systems](#)

[What is an OS?](#)

[Different Types of OS's](#)

[Network Operating Systems](#)

[Compare OS's](#)

<http://computer.howstuffworks.com/hardware-channel.htm>

Descriptions of hundreds of computer devices and peripherals

<http://www.bbc.co.uk/schools/gcsebitesize/ict/>

[On-line video tutorials for connecting hardware, components, peripherals, networking](#)

<http://video.about.com/compute.htm> videos about all things computing

[Graphics Hardware](#)

[PC Architecture](#)

http://en.wikipedia.org/wiki/Internet_forum

http://en.wikipedia.org/wiki/Live_chat

<http://www.tutor.com/subjects>

[Computer Help-Support](#)

[PC Help](#)

[Help Desk Management Software](#)

[Guide to Networking](#) – Good simple site

Network protocols

Networking hardware

Bridges

Routers

NICS

Switches

Repeaters

Fileservers

Workstations

Network cabling

Network topology-NOS

http://en.wikipedia.org/wiki/Computer_network

[Network Types](#)

[Computer Network Devices](#)

[Protocols Directory](#)

[Transmission Speeds](#)

[Computer Networking](#)

[Network Topology](#)

[Network Cabling](#)

[Network Protocols](#)

[Network Operating Systems](#)

[Device Bandwidths](#)

[What is the difference between http and https?](#)

<http://bc.whirlpool.net.au/>

[What is CAD/CAM](#)

[Preventative Maintenance Tips for Your PC](#)

[Computer Maintenance](#)

[What is Utility Software](#)

[Business Software Alliance](#)

[Tech Web](#)

[3D software list](#)

[Desktop Publishing Software List](#)

[Benchmarking](#) Definition

[What is benchmarking?](#)

[Benchmarking-Free Tools](#)

[Computer Workstation Ergonomics](#)

[Guide to buying a PC](#)

[Hardware/software compatibility](#)
[Windows Hardware Compatibility List](#)
[Human User Interface](#)
[XP-Vista-Win.X hardware compatibility list](#)
[The SLA Toolkit](#)
[Outsourcing-Articles](#)
[Outsourcing-Effects](#)

DIGITAL DATA AND INFORMATION

[Digital Image file Types](#)
[Data Formats-Compression Links-Many!](#)
[Transmission Speeds-Table](#)
[Comparison of transmission Speeds](#)
[Device Bandwidths](#)
[Image Hosting](#)
[PhotoBucket](#)
[Storage Hosting](#)
[Tutorial on cellular communications](#)
[How do I maximize data transfer speed on my LAN?](#)
[Streaming Media-Difference in Protocols](#)
[Data Integrity and Cleansing Tools](#)
[Database verification-validation-accuracy](#)
[All about Databases](#)
[Data Organisation](#)
[Data Processing](#)
[Data Processing \(swf\)](#)
[Data Processing \(doc\)](#)
[Data Validation](#)
[Data Protection Laws](#)
[Trojan Horses-How they work](#)
[Firewall](#)
[Encryption](#)
[Security of data over networks](#)
[What is Encryption?](#)
[What is Data Mining](#)
[Biometric News Stories](#)
[Videos on Biometrics](#)
[Data Management Process \(pdf\)](#)
[Data Mining?](#)
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