

BTEC in Digital Information Technology Component 1 Knowledge Organiser



Types of interface:	<ul style="list-style-type: none"> Text based Speech/natural language Graphical User Interface/ Windows, Icons, Menus, Pointers Sensors Menu/forms 	Factors:	<ul style="list-style-type: none"> Performance/ response time Ease of use User requirements User experience Accessibility Storage space
Range of uses:	<ul style="list-style-type: none"> Computers Handheld devices Entertainment systems Domestic appliances Controlling devices Embedded systems 	Influences:	<ul style="list-style-type: none"> Operating systems/platforms Types/size of screen Types of user input Hardware resources available Emerging technologies

Audience needs of a user interface	
Accessibility needs:	<ul style="list-style-type: none"> Visual Hearing Speech Motor Cognitive
Skill level:	<ul style="list-style-type: none"> Expert Regular Occasional Novice
Demographics:	<ul style="list-style-type: none"> Age Beliefs/values Culture Past experiences

Design principles

Colours:	<ul style="list-style-type: none"> Use of range of colours Use of organisational house style Ensuring that colours do not clash Use of textures 	Font style/ size:	<ul style="list-style-type: none"> Ensuring text style/style is readable Use of sans serif fonts for screen reading Avoiding decorative fonts
Language:	<ul style="list-style-type: none"> Using appropriate language for user needs and skill level 	Amount of information:	<ul style="list-style-type: none"> Appropriate amount of information Making appropriate use of white space
Layout:	<ul style="list-style-type: none"> Consistency Keeping the layout as close as possible to user expectations Placing important items in prominent positions Grouping related tasks together Use of navigational components 	User perception:	<ul style="list-style-type: none"> Colour Sound Symbols Visuals
Retaining user attention:	<ul style="list-style-type: none"> Grabbing attention Screen is uncluttered Clearly labelled items/features Use of predetermined/default values for common user inputs Use of auto-fill Use of tip text 	Intuitive design:	<ul style="list-style-type: none"> Use graphics to denote what buttons do Helpful pop-up messages Easy-to-use help feature Ensuring consistency Easy reversal of actions

Wider reading
<ul style="list-style-type: none"> - https://qualifications.pearson.com/en/home.html - BTEC Tech Award Digital Information Technology Student Book—Hodder - Resources available on School Shared Area

