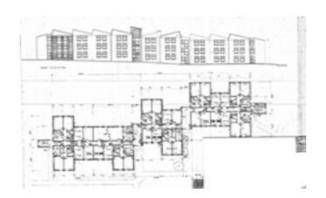
Boclair Academy Technical Dept.

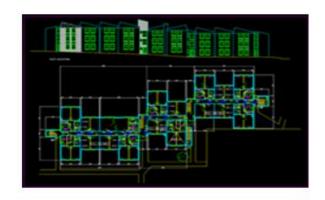
H Graphics Prelim Revision Topics 2016

www.technicaldept.co.uk

Convert Manual Drawings to Digital. Technical drawings manually drawn on paper can be scanned, traced & converted to CAD files.

Before & After





Advantages of CAD:

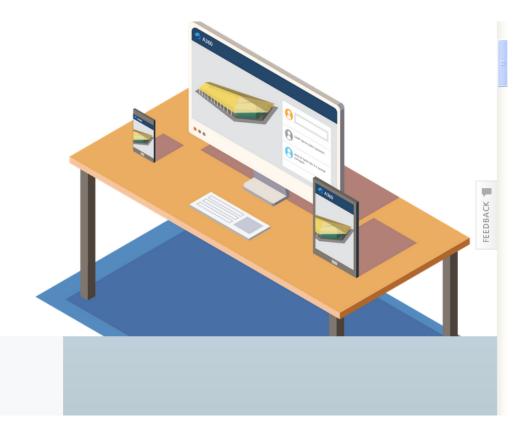
- •Standardisation of drawing conventions to Bsi & International standards (ISO)
- •Ease of modification. CAD drawings can be edited quickly and accurately.
- •Storage and retrieval. CAD drawings can be stored digitally saving space that paper requires.
- •Ease of formatting & scaling. Drawing scales & orientation can be changed quickly and enlarged areas of detail can be shown without the need to be drawn from scratch.
- •Use of CAD library components.
- •Digital CAD can be sent electronically around the world almost instantly.

Collaborative CAD Software.



Collaborate in a single, central workspace

View and share files—including 2D and 3D designs—on the go, on any device. Store data where you'll find it. Find it when you need it.



Find out more - click on a video link below:













Collaborative CAD Software.

Collaborative CAD

This type of software helps engineers and designers view, share, review, and find 2D and 3D design and project files in one central workspace. It helps keep projects, files, and teams up to date, whether you're at the office in the field or another continent.

Advantages:

View 2D and 3D files in a web browser

View models and drawings right in your email or chat. browser—no plug-ins Including 3D models or downloads needed. The viewer supports more than 50 2D and 3D design file formats, including those from Autodesk, team members, Solidworks, CATIA, Pro-E, Rhino, and NX.

Interact directly with complex models: Zoom in, walk through, create a section analysis, and orbit, all in real time. View from any desktop or mobile

Share files easily

Upload any file, then create a link to share the file by to 2D drawings, PDFs to spreadsheets. Share files and collaborate with

contractors, clients.

and customers.

Review in real time Turn your design files

into intelligent, shared workspaces with A360. Set up a review session to invite team members and other project stakeholders to comment directly within files. Track the latest

updates, comments, and design changes from your team in one workspace.

Find information quickly track

changes Search, filter, and

feeds.

find project data across design models, complex assemblies, data archives, and activity

Search for files and track the latest changes made to

CAD models and project documents.

Mobile access

Access your projects from your smartphone or tablet with a mobile app, available for iOS and Android.

Collaborative CAD Software.

Disadvantages:

1. Unreliability: Another Disadvantage of Group Collaboration Software

2.Less reliability could be an issue with group collaboration software. When the server with your groupware is down, nobody can work unless they do so separately, which certainly isn't the idea behind groupware. If you have to work separately this can lead to poor communication.

2. Groupware Costs a Lot

Groupware isn't cheap. When you add its price and the other costs you need to make in order to deploy and maintain it and you draw the line, the result could be pretty shocking. Though group collaboration software is frequently considered the cheaper alternative (and it generally is, especially when compared to the price of a business trip, for example), many top groupware products are priced sky high, and the maintenance costs associated with them push their cost even higher.

3. You Are Tied to the Groupware Vendor

Dependency on a software vendor isn't typical for groupware alone, but since it exists with groupware as well, it is worth mentioning. If your groupware creates documents and other files in proprietary formats, then the export of the data to an alternative platform might be virtually impossible. In a sense, you are locked to the groupware you are using and there is no way out, unless you leave all your data behind.

4. Security Is a Serious Problem with Group Collaboration Software

Unauthorized access and risks for data while in transit are the two most notable security issues.

Simulation of real world environments







Simulation

This allows the creation of required situations for training, testing design Materials

and predicting future events. This is generally cheaper than 'real-life' and safer too.

3D Illustration

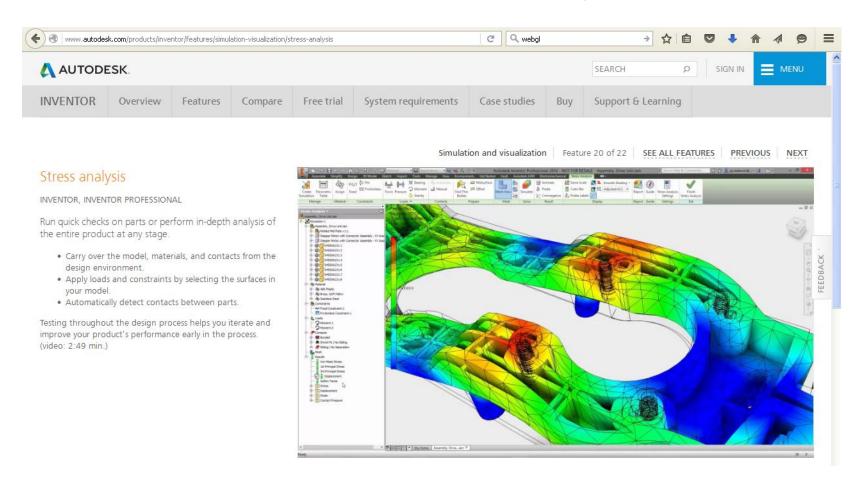
voted to the task.

This improves the visual appearance of a 3D model, and some packages allow theuser to interact and animate with the design. Most CAD packages have illustration features imbedded within them—ie Inventor Studio—but there are 'stand alone'

products available which are solely de

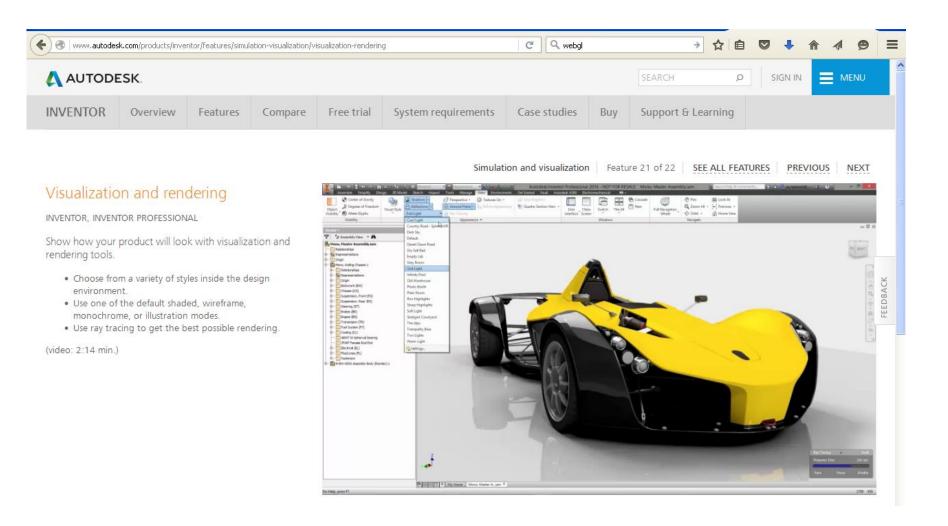


Simulation - Finite Element Stress Analysis (FEA)





Visualisation & Rendering 3D Models





CAD Advantages/Disadvantages/Cad Library

2D CAD



2D CAD can basically be considered as being a computer version of a manual drawing board and is used extensively in the architectural, engineering and construction industries. It also forms the basis for producing 3D models. By applying on-screen commands the user can quickly, easily and accurately produce high-quality 2D drawings of the required format.

2D CAD packages bring se veral advantages to the process. In addition to increased SPEED and ACCURACY of production, the drawings can be easily EDITED, STORED and TRA NSFERRED immediately around the world via the internet, 2D CAD also provides the user with several teatures which are unique to this medium:

Grid

By applying a grid template to the drawing, the user can "Snap to grid" - this means that each point and line on the drawing is joined to a pre-determined format. The size and style of the grid can be set before drawing and this allows greater accuracy and speed of production. It can be compared with the drawing instruments used with the manual drawing board such as the rule, set squares and T-squares.

Isometric



Displays a 30' grid on screen which makes iso metric drawing easi er and more accurate.

Ortho grid



Displays a grid on the screen to any desired spacing. This makes or thographic drawing easi er and more accurate.

Ortho



Restricts the movement of the cursor to horizon tal and vertical move ment only. This makes orthographic projection

Library of parts

This allows the user to insert previously drawn and saved parts into a new drawing. The advantage of this feature is that each part is UNIFORM (BSI symbols, etc.) and does not have to be redrawn each time it is required. The library feature allows newly drawn parts to be saved for future use and multiple users can add to and a coess the library. Computer aided design and <u>draughting</u>

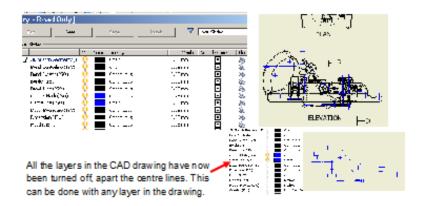
Some disadvantages with CAD...

Using CAD as a software package involves some of the risks associated with any computer systems, such as:

- The initial cost of a computer system is high, as is the cost of retraining staff that are used to producing drawings by traditional methods.
- It takes time to convert existing paper drawings over to an electronic format, although scanners
 can help with this.
- Loss of material can occur due to computer viruses and power failures.
- Possible theft of materials is more common with a CAD system.

Layers

A CAD drawing is made up of individual 'layers', with each layer providing a different line type or 'element' of the drawing. This allows that layer to be isolated and edited/ applied to the drawing. For example, within a large floor plan the electrical, plumbing or heating systems can be displayed individually so allowing that information to be easily available to the individual required without the drawing becoming 'duttered' with excess detail.



2D CAD (2)







The main CAD comands

These CAD commands are taken from 2D Auto CAD, but all can be used within the sketching mode of 3D Modelling packages, including Inventor. They are all designed to make the drawing of material as easy and efficient as possible for the user.

Fillet and chamfer



Rounds (fillets) cor ne.is;

Angles (chamfers) comers

Rectangle/box



Draws squares and rectangles accurately and quickly

Circle and arc



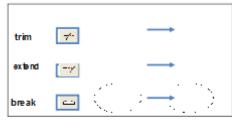
Draws circles and arcs accurately and oulckly

Ellipse



Draws circles and arcs accurately and oulckly

Trim, extend and break

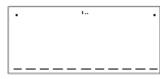


Trims the end off a line

Makes a line longer

Removes a section from the middle of a line

Dimension



Automatically measures then dimensions chosen parts of a drawing.

Ring Array



Creates a dircular arrangement from copied objects.

Box Array



Creates a rec tangular ar rangement from copied objects.

Text



text to be en tered in a ya riety of fonts and sizes

Mirror



Creates a mirror image copy of an object

Сору



Copies and posi tions without having

Rotate



Turns an object to any angle required.



This changes the sizes of objects.

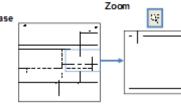
Line types

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B/B#.		
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Порежа	— — Idden (5)	

Allows any BSI line types to be used in the drawing.

Erases selected lines or areas from

a drawing

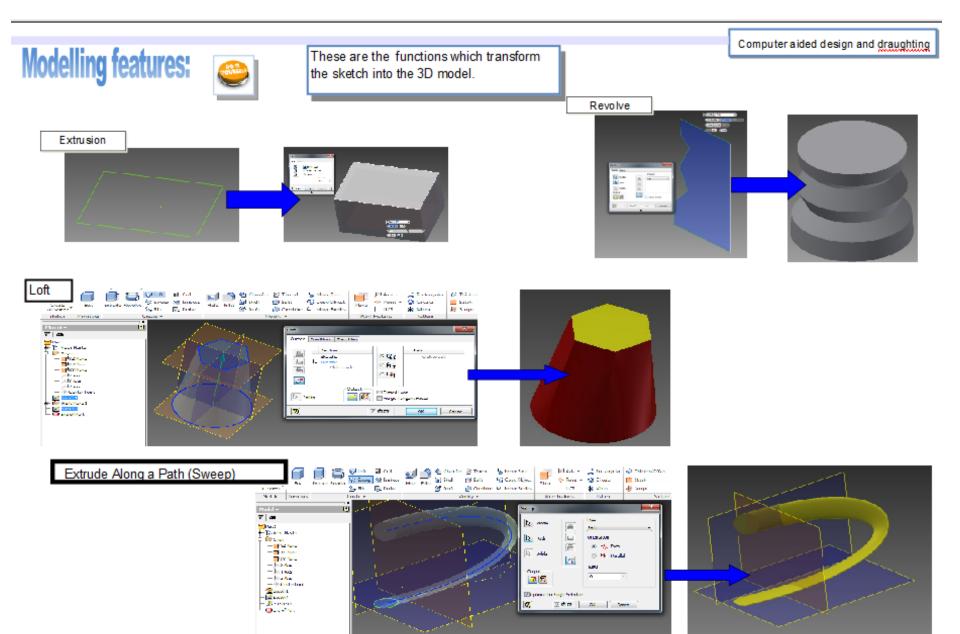


En larges view so that small details appear bigger and are easier to work on.

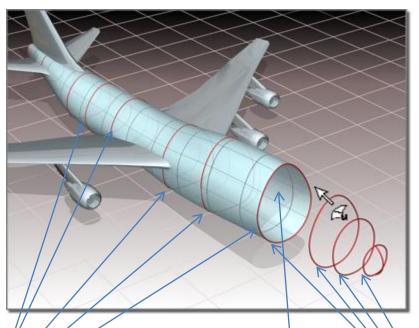
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3941 Historia	9	0	₽ ≣ 253	L0F1100U8	—— J.15 m

Allows a complex drawing to be built up in several layers to make it easier to work on.



Loft – Creating Complex Features



- 1. Create multiple work planes.
- 2. Dimension each workplane spacing.
- 3. Draw sketches on each workplane & dimension them.
- 4. Loft between each sketch to create a complex feature.
- 5. Shell the feature if it is to be hollow.

Loft between each sketch

Sketches on each workplane

Shell



DTP - Design Elements & Principles

- •Know about Design Elements & Principles and how they are used in a layout.
- •Be able to look at a DTP layout and identify which ones have been used.
- •Be able to explain their impact on the DTP layout.
- •Be able to compare one layout with another and describe any improvements.

Design **Proximity & Unity Balance** Principles Click to link to Alignment White Space presentation Repetition & Rhythm **Proportion Contrast Credits**

this

Design Elements

Line

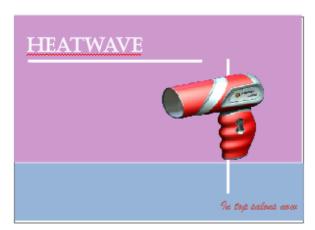
The use of line can be an important and effective technique to enhance a page. They can be used to connect parts of the layout, create emphasis on certain items and separate parts of the design from others.



This layout is quite disconnected—the text and the product are unrelated to each other and the different colours of the background appear separate from the hairdryer.



The use of the two sets of lines brings repetition to the display, and links the product on the right hand side with the text on the left. The lines also link both coloured parts of the layout together.



By simply applying two thin lines, the viewer's eye is led along the page from the product name to the slogan at the bottom right. The vertical line passes behind the product, so linking it to the slogan and the light blue element of the layout. This also brings depth to the display.



The wavy lines in this layout make it feel less formal and more vibrant than the other two layouts. An impression of movement is created here and again the reader's eye is taken to the slogan at the bottom.

Design Elements Shape

As most layouts take the form of squares and rectangles, it is effective to uses different shapes within the design. The use of circles for example, are useful for bringing contrast to a layout and creating visual interest. This is especially true if he product being advertised has straight edges, in this case a mobile phone.



This layout is very straight and rectangular in structure. All the graphic items are in boxes, and the shapes of the product are also rectangular.

The red lines further add to this feel, and the display is not very eye-catching or exciting. It lacks visual impact.



This layout has is more vibrant and eye-catching as circles have been applied to it. The circles contrast well with the rectangular outlines of the phones and make them stand out more.

The straight red lines have been replaced with wavy lines and this gives a feeling of movement and contrast to it.

A change of font for the slogan further adds to the contrast in shape—it is less 'straight' than before and harmonises well with the circular shapes now adopted.

Design Elements HeatWave!

The use of colour can have a dramatic effect on the impact of graphic layouts. Colour combinations should be considered, and not just colours in isolation. Colours working together are what makes a difference. If colour combinations are effectively applied, they can:

- Give visual impact to the la yout
- Suggest a mood
- Unify a layout
- Make a product stand out
- Connect the product with a target market

You should be familiar with colour theory, which is covered elsewhere in your notes.

This colour scheme predominately uses tones of the same colour—blue.

This unifies the display and contrasts well with the red of the product—so creating visual impact.

The red of the product is used in the two items of text—this now becomes the accent col our. This unifies the display and also creates brand aware ness as it is the same as that of the hairdryer.



The application of colour combinations does not work effectively here—too many colours are used. The colours are in conflict with each other, and make the layout confusing to read. It is also difficult to read the slogan at the bottom.

White space

White space does not need to be white; it refers to a blank area or empty space on a page.

There are three main reasons for including white space in a lay out:

- It calms a la yout and makes a busy la yout less busy.
- It can make an item in or near the white space stand out more—it gives that item emphasis.

It can allow the reader's eyes to rest. This is advantageous if the layout is busy.



..... Introducing the lastet in explang technology: give you the book you DESERVE

This colour scheme only uses the colours of the hairdryer product. This means no 'extra' colours are used and they work well together to create a harmonious feel.

The light grey of the flashbars is effective in giving depth to the layout and makes the product stand out.

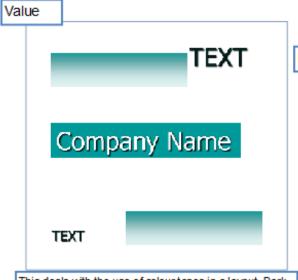
It is easier to see the slogan at the bottom now a single colour gradient has been applied to it.



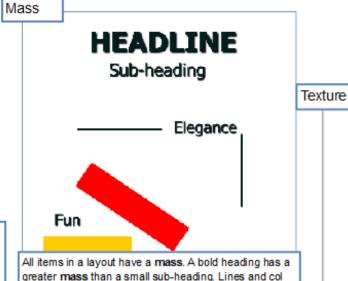
....Introducing the lastest in estyling technology: give you the book you DESERVE

Design Elements

Mass, value and texture



This deals with the use of colour tones in a layout. Dark er tones have a higher value and setting them against light tones makes a graphic display more dramatic.



our fills add mas but thin lines bring a formal elegance,

while heavy blocks of colour can show

Holidays 2015!! Practical woodworker

Texture can be considered in two ways: Physical tex ture is provided by the smoothness or coarseness of the paper.

Visual texture is the pattern in images such as the pat tem of tree bark in a photograph.

DTP - Typeface, Colour, Images

Design principles Balance

It is quite straightforward to understand and apply the principle of balance in a layout.

Most layouts are based on a rectangular shape. If the advertised product is placed in the centre, there are two areas to fill—each either side of the graphic.

Layout [1] has been balanced symmetri cally—if you divided it in half vertically, each side would be essentially the same.



This symmetrical layout is quite difficult to follow, and text items are spread over the page. This can make it difficult to read the text and there is little 'flow' to reading the layout. Layout techniques



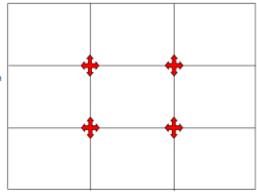
This asymmetrical layout is more eye-catching. As the text is positioned to the left and the graphic to the right, the layout 'flows' better.

The Rule of Thirds

If a space is divided into 9 equal rectangles, the four lines dividing the space provide focal points. If ob

jects are and text are placed here or close to these lines, a more visu ally effective layout can be produced.

The points where the lines cross are called im pact points, and these are key are as to place important features.





Some small alterations have been made here to fur ther improve the layout. The text is grouped more to gether than before, the product has been enlarged and a shadow effect has been applied. The "HeatWave" text has been reduced slightly in size and also moved to the left.

Design principles Unity, repetition and harmony

As layouts usually consist of different graphic items and text, it is important to connect these different elements together within the layout so that they appear linked and together.



Unity is achieved here by overlapping the image onto the text. This makes a physical connection between the image and the text.



The same effect is achieved here by positioning the image over the lines



The repetition of the thicker blue lines with black outlines creates unity here. The use of a similar colour to the graphic is also a unifying feature.



By overlapping the image onto all three areas of the layout, unity is achieved. Again, a harmonious colour is effective in contributing to this effect and the flashbar connects the text to the image.



The three circles are filled with a similar colour to the graphic. The repetition of these circles creates a unifying effect to the layout.



By wrapping the text around the image, the layout is unified and connected.



Colour, repetition and positioning of graphic are used here to effect to create a unified layout.

23

Design principles 💬

Alignment

Alignment is an effective method to improve the structure of a layout. Good alignment makes a page easy to follow and organised and helps make it neat and sharp.



This layout [1] is poorly aligned. The impression given is one of disorganisation, and it appears messy and ill-structured. The image and various items of text are almost scattered around the layout, and it becomes difficult to take in the information.



Once guidelines are added to the display [2], one can see howpoorly aligned the graphic items and text are. The guidelines illustrate where alignment can be achieved with edges of items.



This screenshot from Publisher shows howusing a layout guide and the "Snap' tool can effectively and easily enable alignment to be achieved in the display. Such a guide has been applied to the layout in [3]. One can see how the edge of each item and text is aligned with another.





This layout [4] has the guidelines removed and demonstrates how effective good align ment is to a display. Compare it with the original layout [1] and note how it is more structured and organised.

Design principles

Depth

As layouts are produced in a 2D format—usually a page—it is important to create an illusion of Depth. This illusion stimu lates the layout and makes it more eye-catching. There are several methods to achieve an impression of depth.



If a pictorial view of the product is chosen, it ap pears to have more depth than a simple 2D view. Another simple method of creating depth in this layout is the application of a single thin line be hind the hairdryer, making it look as if it is closer than the line.



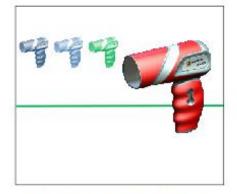
The same effect is achieved here by placing the product onto a coloured shape. As green is a receding colour, the effect is to push the hairdryer into the forefront of the layout—which makes it eye-catching.



Using the **Drop Shadow** tool in this instance creates depth in the layout by making it appear that the product is standing out from a back ground.



By applying an image as a background, depth is brought to this display. It is important to consider the style of the background to successfully achieve this, and in this one a blue washed out colour doesn't take away the emphasis on the hairdryer.



By placing the hairdryer in the forefront of the lay out with smaller images of the same product next to it, an impression of depth is created.



By placing the product in front of the text, an impression of depth is created and the hairdryer is brought to the forefront of the layout.

Design principles

Emphasis and dominance

As graphic layouts are often looked at hurriedly by a reader, it is important to attract their attention quickly. If a page has no focal point or is generally bland, the reader shall ignore it and move on.

As a layout may contain several items of text and graphics, a strong focal point must be provided to centre the display around. This is nor mally the graphic or photograph on the page.

Dominance is when one item of the layout stands out more than the oth ers.

Emphasis occurs when one item is made more eye-caching.

These are the three rules of order to dominance in a layout:

- The main graphic or image should dominate the layout.
- The title, heading or product should be next.
- Less important items should be grouped and positioned effec tively to support this order.

This layout has no item achieving overall domi nance; as it is advertising the Boost drink then the bottle should be the main item the viewer notices.

In this case, the botfle is 'swamped' by the other features in the display—the slogan and the athlete are perhaps the most noticeable features. The font size of the 'Boost' is almost the same as that of the slogan.



Some simple changes have been applied here to make the product become the dominant feature and emphasise the product name:

- The bottle has been enlarged and put off centre. This immediately attracts the reader's attention.
- The athlete has been reduced in size, and relocated to the top left corner. She still contrib utes to the layout, but does not take o ver.
- The crowd silhouette has been faded slightly and put more behind the bottle—this is acting as a fashbar so giving the layout more depth and pushing the product forward.
- "Boost" has been underlined to emphasis the product name more effectively
- The line at the bottom gives further dominance to the bottle and leads the eye to the slogan which has been reduced in size.
- A gradient fill has been applied to the back ground. This has the effect of making the items in the layout stand out more and not be over come by the starkness of the original solid back ground.



Design principles

Contrast

The purpose of a designed page is to grab the reader's attention—this is especially true in promotional graphics where the layout is competing against other adverts and products.

An effective way to achieve this is through the use of contrast— especially by comparing opposites.

Opposites can be between colours, horizontal and vertical lines and be tween shapes—such as circles and squares.

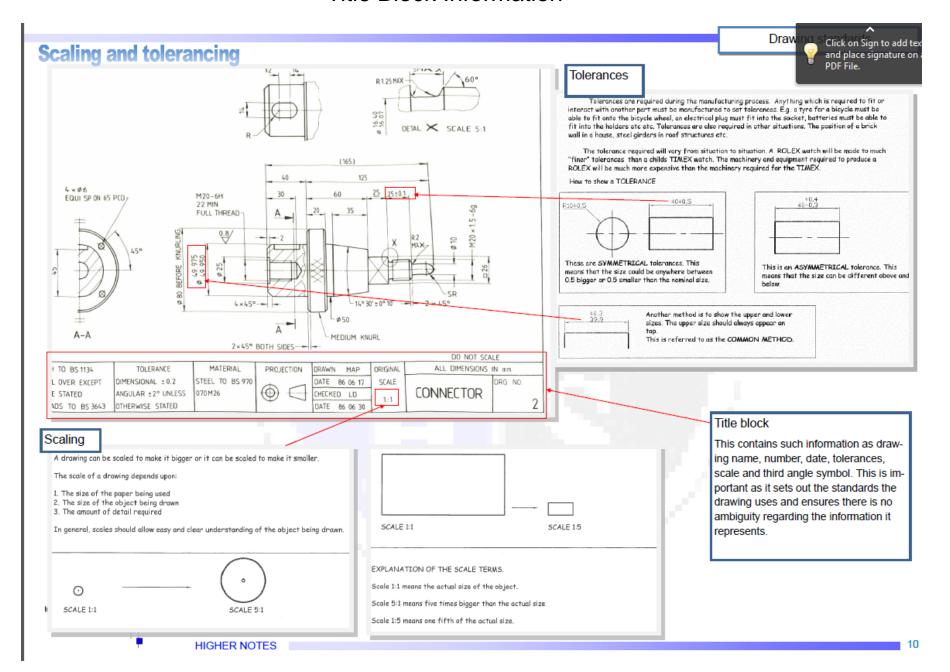


This promotional layout provides no occasions of contrast. The black text is almost lost against the grey background. The page is aligned well, but the straight shapes of the phones and the coloured shapes give the page a very grid-like feel and nothing in particular stands out.

This layout is different however. The display has a much more vibrant feel to it; the red wavy lines contrast strongly with the rectangular shapes of the phones, and by increasing the size of he main image and fitting it the phone grabs the reader's attention. By applying a gradient fill to the flashbar the red text of the company's name stands out more. The use of a circular background for the product information contrasts with the straight lines of he product and flash bar and grabs the reader's attention.



Title Block Information



DESCRIPTION	LINE	APPLICATION	
continuous thick line		visible edges and outlines	
continuous thin line		dimension, projection, hatching, leader lines	
doshed thin line		——— hidden edges and autlines	
thin chain line ————————————————————————————————————		centre lines	
hin chain , thick at ends —		— cutting plane/section lines	
hin chain double dashed		fold/bend lines on a development, extreme positions of moving parts	
ortinuous thin straight	v_	limits of partial or interrupted views	
otimous thin irregular			

BSI Line Types

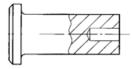
BSI Standards - Types of Sectional View - Revolved & Removed etc.

BRITISH STANDARDS

Sectional views

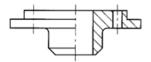
There are many types of sectional view (other than a section along one plane) that can be employed to aid the clarity and understanding of production drawings. The following types of sectional views are useful for showing detail in more complex engineered objects:

· local or part sectional view

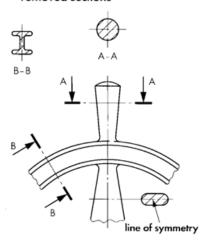


revolved sections

half sectional view

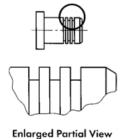


removed sections



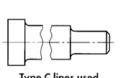
Partial views

It is not always necessary or desirable to enlarge a full view. There are occasions when a partial view can be used to enlarge a detail and improve clarity.

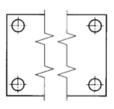


Interrupted views

Drawings can be made to fit a sheet or screen more easily using interrupted views. These views only show the portions of a long or large object that are necessary to define it. They are drawn close to each other and break lines are used to define the edges of the section that has been removed.



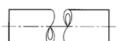
Type C lines used for solid shaft



Type D break lines



Conventional break lines for solid shaft



Conventional break lines for hollow shaft



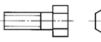
General break lines (type C lines)

Representing standard components

Modern engineering makes use of an extensive range of standard components. It's important that these standard components are all represented properly to allow products to be assembled correctly.

Screws and nuts

The simplified representations of a range of screws and nuts are shown below. Although you may not need to use many of the representations shown here, learning them builds your theoretical knowledge and enables you to read engineering drawings more accurately. Note that these are not actual representations, but are drawn to conventions. A convention is an agreed method that is accepted as common usage.













Hexagon head screw

Hexagon socket screw

Cylinder screw cross set













Countersunk screw

Hexagon nut

Square nut

Dimensional Tolerances

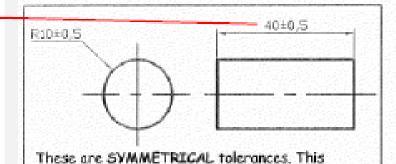
Tolerances

PDF File.

Tolerances are required during the manufacturing process. Anything which is required to fit or interact with another part must be manufactured to set tolerances. E.g. a tyre for a bicycle must be able to fit onto the bicycle wheel, an electrical plug must fit into the socket, batteries must be able to fit into the holders etc etc. Tolerances are also required in other situations. The position of a brick wall in a house, steel girders in roof structures etc.

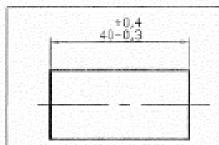
The tolerance required will vary from situation to situation. A ROLEX watch will be made to much "finer" tolerances than a childs TIMEX watch. The machinery and equipment required to produce a ROLEX will be much more expensive than the machinery required for the TIMEX.

How to show a TOLERANCE



means that the size could be anywhere between

0.5 bigger or 0.5 smaller than the nominal size.



This is an ASYMMETRICAL tolerance. This means that the size can be different above and below



Another method is to show the upper and lower sizes. The upper size should always appear on top.

This is referred to as the COMMON METHOD.

DTP



Crop Marks

Registration Marks

The desired layout page is usually printed within a sheet of larger paper than what is required. For example, an A4 page shall be on an A3 sheet.

PDF File.

and place signature on a

Register marks: When printing an image that has more than one colour, it is necessary to print each colour separately and ensure each colour overlaps the others precisely. If this is not done, the finished image will look fuzzy, blurred or "out of register" (see image to right). To help line the colours up correctly, a system of registration is necessary.



a mismatch of CMYK

registration

An example of registration misalignment, note the cyan and magenta plates are not in the exact place. Also halftones are visible on the top area.



A commonly used registration mark. Although it seems black in colour the actual value should be C=100,M=100,Y=100,K=100

re a issess er copy

Register marks and

crop marks

DTP techniques

Bleed

SPECIAL FEATURE

This main image bleeds off the printing area and through the margin. This creates an in formal feel to the page.

Colour fill

Contrast and harmony can be achieved by formatting the text box appropriately. These two text boxes use a blue/ grey fill which harmonises with the main picture, but con trasts with reds used in the headers.

This column rule gives this page a more formal look and separates these two sections

Reverse

Desktop Publishing

The body text colour is black. The text of the subheading has been reversed, and the box filled with a darker colour. This creates contrast and

Header

This is called a running header, and appears on every section of the mag azine.

Headline

The headline introduces the article. In this case, the bold fonts create emphasis. and the reverse text on the blue/ grey fill gives it visual impact.

Drop capital

This larger first letter sign i fies the start of the article. The use of reverse also attracts interest.

Margin

Margin—the space at the side and bottom of the page where there is no text or graphic.

Declaring war on the 'dull' music scene. KASABIA asabjan burst on to the British music scene in 2004 with the release of their eponymous debut album. Dis guisted with the clean living 'non' an tics of the current groups of the time-Coldplay, Keane, etc.—they vowed to bring back some of the excitement

and glamour that had been sorely

missing. They have since gone from

strength to strength, becoming the major attraction at festivals over the years. As guitarist Serge says: "Oasis have gone. We are the biggest band inBritain now. Kasablan are to head line the Isle of Wight and Rockness fe stiva is

Excitement...what it is all about

Column rule

The song "ylad the Impaler" was re leased as a free down bad for a period of 4 days, as a preview for the album. The promovideo for 'V ad the impaler' stars Noe | Fielding of The Mighty Boosh. The album's first official single was the track 'Fire", which was re leased on 1 June 2009, and the son g "Where Did All the Love Go?" was re leased as the second official single. The third single "Underdog" was used In the movie Takers (2010).

On 14 June 2009, West Ryder Pauper Lunatic Asylum reached number one in the UK top 40 charts, spending two weeks there. West Ryder Pauper Lunatic Asylum was shortlisted for the 2009 Mercury Prize, and was named 'Best Album' at the 2009 Q Awards. The band won "Best Group" at the 2010 Brit Awards, At the 2010 Q Awards the band won the "Best Act in The World

The song "Fire" was dised as the Barclays Premier League theme so fig for

Lead singer Tom explains the Kasabian philosophy

Where do you prefer to per form?

Scottand-the crowds are al ways up for t and go mental.

Why do you hate other bands' boring attitudes?

> All rock bands have a respo bility to live the life of a roo star-who wants to hear about Chris Martin's vegan diet or the Fratellis going to bed early? People want an escape from the grinding routine of life, and we'll give th

> > Favou KASABIAN

use of the accent colour

Page number (folio)

Today".

Festivalseason.com

Gutter

Text wrap

As it suggests, the text wraps around the image.

Cropped image

This is an image with the background removed. It gre ates a more interesting shape.

Festivalseason.com

This separates columns, and helps to de-clutter the page.

HIGHER NOTES

SPECIAL FEATURE

gives the page interest.

Heading

This introduces a separate section of the article.

Tilt

This image is tilted, which catches the reader's atten tion. It creates a modern feel, which will appeal to the youthful target market.

Caption

Gives information about the image.

Sub-headings

These break up the large section of body text. The produces a visual rhythm.

Desktop Publishing

Desktop Publishing (DTP)



Desktop Publishing (DTP) enables the production of magazines, newspapers, books, pro motional literature etc. to be created on a desktop computer or laptop. The publishing in dustry creates these documents and the physical paper documents are produced by the printing industry. The design is the result of the work of the graphic designer.

You Tube

Benefits of DTP to the Graphic Designer

Graphic designers nowadays operate on a very flexible basis— work can be produced any where and any time using modern technology and sent to the office via the internet.

Modern DTP packages allow exciting and imaginative displays to be very quickly and easily created. The main benefits DTP so ftware brings to the graphic designer are:

- It is simple to make modifications to images such as colour, shape and formatting.
- Further modifications to the design can easily be implemented on behalf of the editor or client.
- The grid structure templates within DTP software enables designs to be created accountable and quickly.
- Design proposals can be sent to the editor or client electronically to save time. Their responses can be returned this way.
- The graphic designer can work from home. This saves travel costs and environmental impact of their journey.

Benefits of DTP to the graphics industries

As there is great competition among newspapers and magazines in the market and the cir culation of most printed newspapers is declining, DTP provides many advantages to the in dustry:

- Proposals and final editions with full designs and images can be sent quickly electronically. These can then be forwarded onto the printer in this way.
- News reports can be sent from anywhere in the world email.
- The time it takes to design and publish a document is greatly reduced. Modifications
 can easily be made by the editor and sent to printer.
- Common features within a publication can be quickly produced via templates such as footers, running headers etc.

Benefits of modern printing methods to society

The advent of modern methods has had a major impact on the printing industry. Traditional methods were very labour intensive and large numbers of people were employed in various roles such as print -setters, labourers and engineers. The amount of semi-skilled workers has been reduced, although there is now great demand for highly skilled operators as more reliance is placed on computer con trolled design and production. The new technology has also had an effect on the industry's en viron mental impact:

- Modern printing methods are more energy efficient than previous means.
- Many publications provide an electronic or online edition. This reduces the amount of paper and ink required
- Most publications use paper which can be 100% recycled as a result of modern printing tech 09/99X;
- Modern inks are more environmentally friendly and less quantity is required. Inks are now based on vegetable oil rather than on petro-chemicals.
- The quantity of paper and inks required is digitally controlled. This reduces waste.



Font Styles - Serif / Sans Serif

Desktop Publishing



Text

Text is obviously used throughout a publication, and it is put to different uses to the satisfy particular requirements of the piece. Headers and footers appear at the top and bottom of the page respectively, and give information, such as date, page, the feature concerned, etc. Headings and titles give an introduction to the article, and subheadings divide the article into smaller sections. Pull-quotes draw the reader's attention to the article and cap tions explain an image or photo. The main body of text is called body type, or body copy.

Typeface

Fonts are in two styles—serif and sans serif.



Serif text—they have a line crossing or tail between the two free ends of the stroke.

This creates a serious/ for mal look and is often used for the body text in quality

MHS

Sans serif—a typeface without serifs.

This creates a less serious,

Examples of fonts

Times New Roman Baskerville Old Face Century Schoolbook

Serif fonts

Arial

Europa

Sans serif fonts

Arnold <u>Bocklin</u> Gospel

Serifs

Fun fonts

Contrast can be created in a publication by using a sans serif font for the title, and a serif font for the main body text. A good 'rule of thumb' when deciding on font styles is keep it simple - use 1 sans serif font for headings, subheadings and captions, and 1

Text formatting

Text size is measured in points.

22 point bold text

14 point regular text

A drop capital indicates the start of the article and in dents the main body copy next to the drop capital:

ast year, the presence of the mighty <u>Kasabian</u>, global superstar <u>JayZee</u> and even Madness kept up the festival's reputation as

Bullet points can make the piece more 'snappy', especial

ROOMS

- En suite WC
- SkyTV

drop capital, but indents the rest of the column under neath:

Ahanging indent uses a

ast year, the presence
of the mighty Kasabian,
global superstar JayZee and even Madness
kept up the festival's
reputation as one of

Left-aligned text can make

the publication appear more

sophisticated. It is the most

Last year, the presence of

the mighty Kasabian, global

superstar JayZee and even

Madness kept up the festi

val's reputation as one of

An indent is a good way of signifying the beginning of a

This year's T in the Park may have one of the lowest key line ups in recent years, with few major stars of note.

Last year, the presence of the mighty <u>Kasabian</u>, global superstar <u>JayZee</u> and even Madness kept up Desktop Publishing

Justified text produces vertical lines on each side. It gives the text a strong visual shape, but can create unwanted by phenation and exaggerated word spacing.

Last year, the presence of the mighty Kasablan, gbbal superstar Jay Zee and even Madness kept up the festi yal's reputation as one of the best.

Right-aligned text can look sophisticated and is often used for subheadings and

Last year, the presence of the mighty Kasabian, global super star JayZee and even Mad ness kept up the festival's rep utation as one of the best.

Centred text creates a symmetrical column of text, but is difficult to read and

Last year, the presence of the mighty <u>Kasabian</u>, global superstar <u>JayZee</u> and even Madness kept up the festival's reputation

Text wrapping allows text to be placed around an im

Last year, the pres ence of the mighty Kasabian, global

superstar JayZee Madness kept up the

and even Madness kept up the festival's reputation as one of the best.



Text/Typeface/Font

There are different ways of organizing text which are used globally. This is referred to justification or alignment.

Aligned Left

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aligua. Ut enim ad minim veniam, quis nostrud exercitation villamos laboris nisi ut aliguip ex ea commodo conseguat.

Aligned Right

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad min im xeniam, xuis nostrud exercitation ullamoo laboris nisi yt aliquip ex ea commodo consequat.

Justified

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamoo laboris nisi ut aliquip ex ea commodo consequat.

Centered

Lorem ipsum dolor sit amet, con sectetur adipisicing elit, sed do ei usmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exerci tator ullamoo laboris nisi ut aliquip ex ea commodo conseguat.

Copy/cut/paste

When you take an image/piece of text etc. and copy it from one place to another. Cut is when you delete something from its original location and paste it somewhere else.

Shortcuts: Ctrl C / Ctrl X / Ctrl C

Text Box

A text box is what you would insert into a page in order to in out text into your document. It should look some thing like the image shown



Handles are the parts — which appear when you select an image. By moving these you can manipulate the image in many ways i.e. changing the size or ro tating an image.



Colour Fill

This is when you take a shape with an outline and fill it in with a colour this is shown in the images below.



Before col



After colour

Guidelines

Guidelines are guides which you access via your rulers on you page. They act as a guideline for aligning images/text etc.

You can select Snep to Guidelines which will allow your image to automatically jump to meet with guidelines you have gogitioned on the page



A=

Draw

Tost Box

FIMISH