## S2 Manual Graphics

## Graphic Technology

#### MEASURING

Throughout the school you will measure in many different units. Most of the school will measure in Centimetres (cm), however, in the Design and Technology department; we measure in Millimetres (mm).

Occasionally, some rulers you will use work in cm, therefore it is very important we are able to convert all measurements to mm.



#### TASK 1

Using what we have learned, read the millimetre ruler and identify the given values.



#### TASK 2

Read the centimetre ruler and identify the given values. Write your answer down in **mm**.

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#### MEASURING

Dimensions are essential in most production and technical drawings because they enable an engineer or builder to manufacture products and construct buildings accurately.

You will be required to show some dimensions on drawings you complete in any units or assessments. Learn the conventions and rues for dimensioning shown on this page and practice them in your work.



## MEASUREMENT

#### TASK 1

Using the standards and dimensioning techniques we have learned, measure accurately and fully dimension the following lines on the page. Two examples are given.

Remember: think about leader lines, small arrow heads, and accuracy.

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## **ORTHOGRAPHIC DRAWING**

Orthographic drawing is a 2 Dimensional drawing of a 3 Dimensional object.

Orthographic drawings show different dimensions of an object that wouldn't necessarily be seen on a 3D view;



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# STREET VIEW

#### **COLOUR THEORY**

The knowledge of colour is an important part of Graphic Communication, as we must be able to understand the significance and purpose of the colour wheel and understand the relationship between colours.

The colour wheel demonstrates the relationship between colours and is split up into three sections, **PRIMARY**, **SECONDARY** and **TERTIARY** colours.



#### **COLOUR THEORY**

Colours can be separated into different categories;

- Warm and Cool colours
- Harmonising and Contrasting
- Warm colours, Yellow, Red and Orange are colours which give a feeling of warmth, an example of this can be found on taps to identify warm water.
- Cool colours, Blue, Green and Violet do the opposite and give a feeling of coldness, again it can be seen on taps to identify cold water.
- **Harmony** is created when colours close on the colour wheel are used together. It is an effective way of using colour to blend with the background or another object.
- Contrast is created when there are two colours opposite on the colour wheel. It is an effective way of using colour to make objects stand out from the background or other objects.

**Contrasting Colours** 

**Harmonising Colours** 

### **COLOUR THEORY**

**TONE** is the word used to describe how intense a colour is. A weak tone is a very light colour and a strong tone is a very strong colour.







## Title Text

Eh... The title. It names the article... What can we say.

# Students of the DMDT Program learn to usecom-W RUBEN A RODRIGLEZ, DADT

# **Body Text**

Signifies the start

of the article

Drop Cap

The main article text

(Digital Media Design Technology), we teach our shop. We teach them to understand their audience to produce the right type of art for them.

stes artists, not technicians," according to automent Chairman, J.J. Vavra, "In DMDT students to create art using tools like Photo-

here is one program of study at TSTC that

labs are filled with industry standard Apple iMac photography. The department's four computer computers, Canon 60D and T3i digital cameras

for photography and videography.

animate 3D images. They also learn different techniques for digital drawing, painting and

puter software to create or manipulate still images, createand edit digital videos, and

# Depth of Field

packages can now edit images to add focus, drawing the the effect. Images have one point of eye and creating technique, but Okay, really a photography many DTP depth.



Left Aligned

# Centre Fold

If a double page spread, it needs a fold point.



improve student learning. DMDT currently hi also gather an incredible amount of data abo their classes to determine which student pr always looking for new methods to improve ects or techniques need to be updated to 92.5 percent placement rate and they are that -

One hundred percent of our grad during their last semester. They are instructed either as a graphic designer or continuing the ber one goal is to place students, olio class is taken by DMDT studen work experience because of our velopment class"Vavra said. education. Portfolic The Port leave wi Our nu

A stray word, sitting

of the page.

Drop Shadow

A shadow added

An image that extends beyond the boundary

Bleed

#### depth within a layout under an image or graphic to create

This can create unity between text and the image, showing they Text wrapped to the shape of an image. are related.

Text Wrap

Area around a Margin

he real world has given me confidence for my

future," said Monasmith.

ob. Finding out I could meet the demands of

client. I quickly learned I could really do the

sional environment today. Instead of turning in a project to an instructor, I am turning it in to a

meet the standard of the industry in a profes-

evel. I quickly found out that I am prepared to

because the real-world operates on another currently an intern at CM Graphics in Harlin gen. "At first I was terrified of the internship

document.

equipment, techniques taught by their up-to

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ime writing, creating an organizer iowcasing their artwork which is

proper

date instructors and the experience gained during the internship, graduates leave TSTC confident about their future success.

Combining their creative abilities with latest

The space between

Gutter

two columns.

A stray item of text carrying over from the previous column.

Widow

on its own.

Orphan

Text or graphic aligned to the left..

# ar )err $\bigcirc$ leets

The first woman to win the Pritzker Prize for Architecture in its 26 year history, ZAHA HADID (1950-) has defined a radically new approach to architecture.

A sub-standard was single-minded from an set and year born in style and the challend of the challend of the challend of the challendood was allend, reflected that at the character of the challendood was allend, set and where her longhoots maletural at the character of the challendood was allend or the challendood was allend or the challendood was allend at the challendood was allend or the challendood was allendood was

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form. Her architectural merely exercises in

obsession with shadow and ambiguity is deeply cooled in listance achieverular androx, mike its fluid, open nature is a politically charged riposte increasingly for filled and undernocratic modern urban landscapes. Chiomrad islinocd all throse who said Zaha

Hadrd's achitecture was repossible to build, when the index eventsport for chromen activity this preserve that the disks are hexXXX1 chromen provide area by the provident in the provident provident control in Rome (due to open next year) the Science Centre in Worksburg (path projects in Central age and the activity chromen Science Centre in Worksburg (path projects in Central age and the activity in the Science Centre in Worksburg (path projects in Central age and the activity in the state of Central age and the activity in the state in Nagles's public activity. In the activity in the astream of commissions in Moscow and the Centre and the activity in the state in Nagles's public activity. In the activity is activity and comparison in Nagles's public activity. In the activity and state for the Model East, Even in Ribao, Islandu and the Model East, Even in Conservative Bata, Inte adord the contro-and and the Model East. Even in Conservative Bata, Inte adord the contro-and the Model East. Even in Conservative Bata, Inte adord the contro-dent production in Conservative and the adord the science in Kindley at a dia pletricity in Scienticut, and advectoment in Conservative and the advector and the advectoment in Conservative added the condon 2012 Optimol And the advector and the London 2012 Optimol And the advector and the london 2012 Optimol And the advector and the condon advectoment in the condition and the advector and the other prodes model and the advector and the advectoment in the advector and the advector and the other prodes model and the advector and the advector and the other advector advector and the advector and the other advector and the advector and and advector and the other advector advector and the advector and the other advector advector

Guangzhou Opera House, Guangzhou, China, 2003-ongoing on site Cbjects and furniture Design and archio-ture differ in scale, motoria, structure and purpose. Hadd's designs include and furnitorial tuminare and furnitorial tuminare and furnitorial tuminare and furnitorial tuminare and structure pertnereent and an design.

subject to servere criti-cism as being a vumby project which could do nothing but look good. Stank proved her manerick agent her manerick agent her manerick agent frem an and active Monaco who ginns to make the three wheel art road worthy

Abu Dhabi Perform-ing Arts Centre, Abu Dhabi, UAE, 2007-ongoing current project The Opus' Office Tower, Dubal, UAE, 2007-ongoing current project

Z car is a concept which fuses art and transport. The design has however been





## DESK TOP PUBLISHING

Considering the DTP terms you have identified and discussed as a class, create three different thumbnail sketches for your own magazine articles.



## DESK TOP PUBLISHING

You now have to produce a desk top published page which promotes one of the projects (display stand, tip box, sweetie holder or clock) that you have made. It is better to choose the item that you have made as you now know what it looks like. You can use a photograph of the projects item, the model, the image created on inventor, or the model you made using cardboard and neoprene. Look at the examples below. (but yours will be better!) It should be planned on an A4/A5 sheet before it is put on to computer. You must use the "ANATOMY OF A PAGE" to help you plan it. It should include the "PAGE STRUCTURE", "PAGE CONTENTS" and other "DESK TOP PUBLISHING" terms.



Refreshers<sup>-</sup> Reinvent how you refresh.

STARBUCKS

(B) Recharge with green coffee extract.

Very Berry Hibiscus



Complete manual isometric drawing Complete CAD model to create isometric drawing Dimension an isometric drawing to BS888

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ACTICE 3 & 4	CHNICAL GRAPHICS		COMMUNICATION				ALL SIZES IN MM   DO NOT SCALE
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