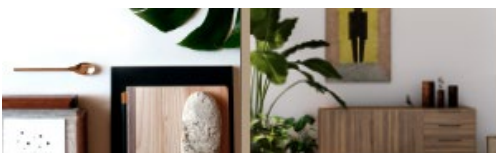
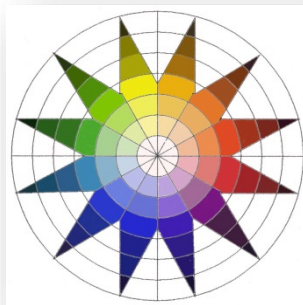




INTERIORDEZINE.COM

Are You an Undiscovered Interior Designer? Part 3

Color & Lighting



INTERIOR DESIGN
COURSES

[CLICK HERE TO LEARN ONLINE AT WILLOWCOLLEGE.COM](https://www.willowcollege.com)

GET
STARTED
TODAY



INTERIORDEZINE.COM

Contents

Color	4
Red	6
Orange	7
Yellow	8
Purple	9
Blue	10
Green	11
White	12
Grey	13
Black	14
Brown	15
Some Color Meaning Tips	15
Lighting	18
Candela:	20
Lumen:	20
Lux:	20
How We See Color	22
Color Appearance,	23
Color Rendering	24
COLOR and INTENSITY	25

This document is the copyright of Dezine Holdings Limited ©2020, All Rights Reserved
www.interiordezine.com however distribution of it is allowed and encouraged but it must be done so in its entirety and with all links intact. Not to do so is in breach of the copyright waiver granted by Dezine Holdings Limited ©2020 and www.interiordezine.com



INTERIORDEZINE.COM

Ebook Terms of Use

This book and its contents are copyrighted to Dezine Holdings Ltd.

The use of this book is governed by "[Our Website Terms of Use](#)" as contained on our website. Without limiting the application of those terms, the following provisions apply to the use of all books from this website.

The use of these books does not imply the provision of a contracted architectural or building consultancy service to the user except where specifically agreed in writing.

Book users are encouraged to seek assistance from correctly qualified and skilled professionals and trades people before undertaking any design and/or construction work.

Book users are also encouraged to check with their local regulatory authority to determine current standards for design and/or construction.

The liability of Dezine Holdings Ltd is limited in terms of the "Our Liability" provisions contained in "[Our Website Terms of Use](#)".

Make sure you keep in touch with us on social media

Follow Us:





INTERIORDEZINE.COM

Color



This is a topic that the Interior Designer and Decorator must know inside out. It is a core subject. There can be no short measures or shortcuts here and as such our eBook on this subject is very extensive. Interestingly color is so important that there have been many systems developed to help create color schemes that work however the best color consultants have “the eye” and imagination to be able to apply different pallets to different clients. One size does not fit all and having seen many designers stick to their tried and true scheme because a new client loves the last one they did is ok but leads to a very mundane ability. You will need to build an understanding of how colors work together to create successful schemes.



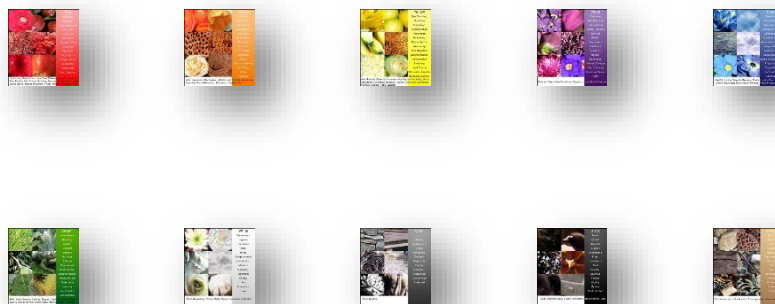
**INTERIOR DESIGN
COURSES**
[CLICK HERE TO LEARN ONLINE AT WILLOWCOLLEGE.COM](https://www.willowcollege.com)

GET
STARTED
TODAY



INTERIORDEZINE.COM

There are numerous factors that influence your decisions and understanding most of the points below will set you on your way.



- What color is and why it affects us so much. The personal side of Color, showing you colors and their meanings, how they can be interpreted and used to evoke mood.
- Basic Color Theory and the different systems. A free Color course [click here](#)
- The color wheel and how to use it. [click here](#)
- How to use colors to enhance a plain room. [click here](#)
- How colors give the appearance of depth, distance, definition, of hiding things and opposing contrasts.
- How color is merely a wavelength in light and the way light works





INTERIORDEZINE.COM

The following graphics represent the basic groups of colors in the spectrum (although there are literally millions) and their properties and effects on mood that each wavelength can have. Click on each graphic to be shown in depth information for that color.

Red

click on the image

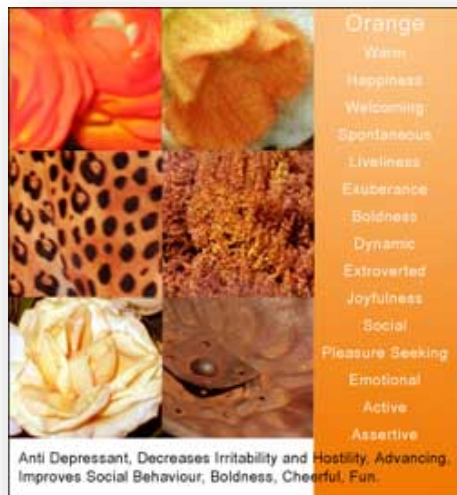




INTERIORDEZINE.COM

Orange

click on the image





INTERIORDEZINE.COM

Yellow

click on the image





INTERIORDEZINE.COM

Purple

click on the image







**INTERIOR DESIGN
COURSES**

CLICK HERE TO LEARN ONLINE AT WILLOWCOLLEGE.COM

GET
STARTED
TODAY



INTERIORDEZINE.COM

Blue

Click on the image





INTERIORDEZINE.COM

Green

Click on the image





INTERIORDEZINE.COM

White

Click on the image





INTERIORDEZINE.COM

Grey

Click on the image





INTERIORDEZINE.COM

Black

Click on the image







**INTERIOR DESIGN
COURSES**

CLICK HERE TO LEARN ONLINE AT WILLOWCOLLEGE.COM

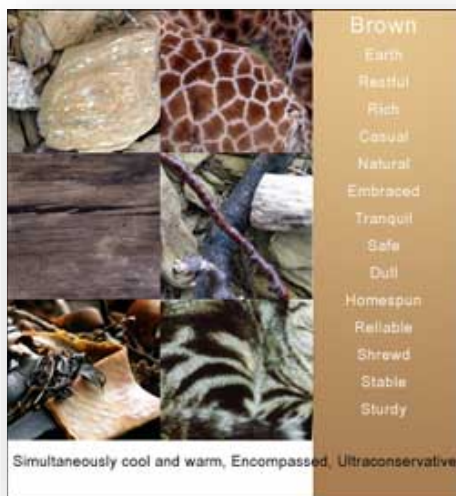
GET
STARTED
TODAY



INTERIORDEZINE.COM

Brown

Click on the image



Some Color Meaning Tips

Orange in a classroom creates a cheerful, sociable environment with minimal hostility and irritation. Dull, white, brown, and black in a classroom is not stimulating or productive; the positive classroom colors are yellow, yellow green, orange and light blue.

Some effects of color on workplace performance; people will tend to spend less time in an area that is red than one that is blue, therefore red partitions in the locker rooms and WC's could stop staff lingering in these spaces.

Changing the color of the walls in a cold workplace from blue to peach will stop workers complaining about the temperature and save the employer from having to increase the heating, therefore saving on electricity bills.

Green is a good color to use backstage for actors, as it is calming and meant to ease their nerves before their performance.





INTERIORDEZINE.COM

Red flatters the skin so is an ideal background color to use in rooms that are used for social functions.

If you are interested in this topic, we have a free color course on the site that is sent out to you via email. [Free Color Courses](#)

Click on these links for further free information on color

[Home Color](#)

[Color Articles](#)

[Free Color Course](#)

[Color Ideas](#)

[Color Meanings](#)

[Color Information](#)

[Color Resources](#)

[Color Schemes](#)

[Color Theory](#)

[Decorating Paint Effects](#)

[Feature Walls](#)

[How to Choose a Color Scheme](#)

[How to Use Color Wheel](#)

[Paint](#)

[Popular Color Schemes](#)





INTERIORDEZINE.COM

Click on the links below to subscribe to the free Courses

[Decorating Course](#)

[Curtain Design Course](#)

[Color Course](#)

InteriordeZine.com has been online for over 17 years providing free Interior Design and Decorating information. We have also set up a new Interior Design College which offers interactive online courses. To learn [How to Become a Color Consultant](#) more visit [WillowCollege.com](#) today.





INTERIORDEZINE.COM

Lighting

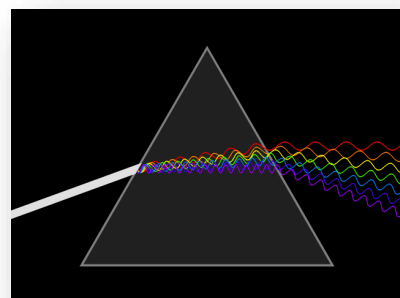


What is Light?

This is a question that baffled scientists for centuries but as our knowledge of the energies that surround us evolved so did our knowledge of the electromagnetic spectrum and energy. Light is a form of electromagnetic energy and visible light is part of that electromagnetic spectrum.

It is transmitted in waves the same as radio, radar and TV but is of a particular size or wavelength.....[more](#)

This is a fantastic topic. Lighting, without doing anything else to the room, can enhance a room incredibly. It can change colors without painting, make you feel alert, make you feel relaxed, create focus, create intimacy, and even change the appearance of the room's size and height.







**INTERIOR DESIGN
COURSES**
CLICK HERE TO LEARN ONLINE AT WILLOWCOLLEGE.COM

GET
STARTED
TODAY



INTERIORDEZINE.COM

In my experience it is one of the most important elements in Interior Design. Without it you will never get the full benefit of all the other elements that you have incorporated into your design. The link below will take you directly to www.interiordesign.com and the introduction to lighting [.....more](#)



Low Voltage Tungsten Halogen: Gives a crisp white light, excellent for bringing out or enhancing the colour. The effect can be softened using gold back reflectors or reflected off other areas rather than direct.

These can be used in discreet areas because of the size however they need a transformer (and this has to be mounted somewhere close by e.g. in the ceiling) as they usually run on a 12-volt system.



Heat can be a problem with them and the lamp needs to be well ventilated and have a heat sink to the back of them to draw the heat away from the lamp itself into a ventilated area.





**INTERIOR DESIGN
COURSES**
CLICK HERE TO LEARN ONLINE AT WILLOWCOLLEGE.COM

GET
STARTED
TODAY



INTERIORDEZINE.COM

Led lighting which until a few years ago was in its infancy is fast becoming a viable alternative to the halogen.



Led Lighting has become so advanced nowadays that it rivals and even surpasses most domestic lighting and even commercial interior and outdoor lighting.



Candela:

This is the initial unit of light specification. It is the luminous intensity. One candela is defined as a small white-hot cavity. It is equal to about 1 large wax candle. (Hence candela /candle) [.....more](#)

Lumen:

This expresses the quantity of the light. (Luminous flux) eg 1 Candle gives of 1 candela of light but that goes in all directions, so the total quantity of light is measured by the amount that is given in all directions

Lux:

This is the measurement that is used to measure the illumination of a surface. (Light on the surface). Eg 1 lux is provided when a luminous flux of 1 lumen falls on each square meter. [.....more](#)

Each color of light has its own wavelength in the electromagnetic spectrum. When all the colors are combined we get a mixture recognized as white light. If this light is shone through a glass prism then the white light is separated into the colors of the spectrum.





INTERIORDEZINE . COM

It's important to understand this when dealing with lighting as different types of light gives off different colors or combinations of colors. The average midday sun appears to have all the colors in it while artificial light can only approximate it. (Note the different types of light that you get at varying times of the day such as early morning or dusk).

All visible artificial light is within the violet to red spectrum range however varying types of artificial light concentrate on different parts of the spectrum.

For example, low-pressure sodium lamps ([see types of lighting](#)) emit their light in the narrow part of the spectrum that gives an intense orange yellow light and therefore distorts the colour of all non-yellow objects.

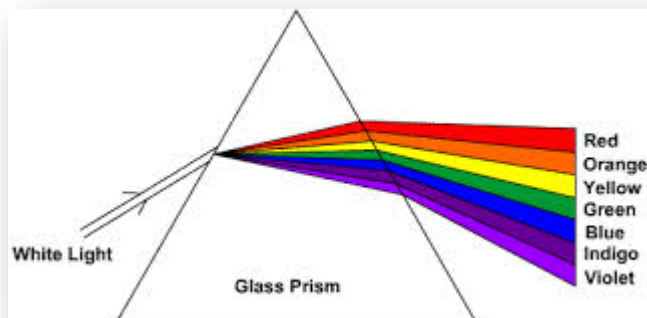
To conclude, when designing a harmonious and balanced environment, it is important that the correct lamp specification for the situation is selected.





INTERIORDEZINE.COM

How We See Color (the theory....[more](#))



The eye responds differently to different colors. It responds best to the green yellow area of the spectrum and less to the blue violet or red ends. (If you think about it this also relates to moods. A bright room creates a sense of well-being and happiness while the dark creates a different mood all together).

To understand how color is seen, take the view that colors are in the light and not the object. When light falls on an object its surface will absorb some colors and reflect the rest. The colors that we see are those that are reflected. E.g. green objects reflect green light but absorb the rest and blue objects blue light while absorbing the rest. Black objects absorb all light and white objects reflect all light. You will note that it is almost impossible to get a true black or a true white. (Not to be confused with mirror which forms images by reflection)

If you focus on light and colour this way then you will understand the importance of illumination and how it renders and colors an object or the space it is illuminating.





INTERIORDEZINE.COM

Color Appearance.

Color appearance of light is usually expressed as a cool light or warm light. Color temperature is a way of describing the color appearance of the lamp. Color temperature is measured in degrees Kelvin. (Celsius is converted to Kelvin by adding 273) The coldest temperature that we know of is absolute zero and that is -273 degrees Celsius (or 0 degrees Kelvin). I.e. 100 degrees Celsius is 373 degrees Kelvin.

Note that the color temperature of a light source rises with its thermal temperature paradoxically, therefore the higher the temperature, the cooler the light. (The main point here is that color temperature and thermal temperature although related are not the same thing). For example, a candles color temperature may be 2000 degrees Kelvin and it gives a warm yellow light however some fluorescent tubes color temperature may be at 4000 to 6000 degrees Kelvin and generate a very cool light.

A photograph of a modern interior space featuring a wooden cabinet, a potted plant, and a framed abstract painting.



**INTERIOR DESIGN
COURSES**

CLICK HERE TO LEARN ONLINE AT WILLOWCOLLEGE.COM

GET
STARTED
TODAY



INTERIORDEZINE.COM



Color Rendering

This refers to the appearance given to an object by the light source. This is important, in interior environments much of the light is reflected back off the surrounding objects and surfaces, therefore these objects and surfaces don't have a true color (because it is artificial light) so, knowing the light source's true color rendering capability is important.

The international commission on illumination (CIE) has developed a color-rendering index (CRI) by averaging spectral light source from 0-100.

The higher the number, the truer the color rendition at its color temperature.

When comparing lamps, to give a fair comparison, the color temperature must be the same.





INTERIORDEZINE.COM

Light consists of two main elements:



COLOR and INTENSITY

Color is the part of the spectrum being used.

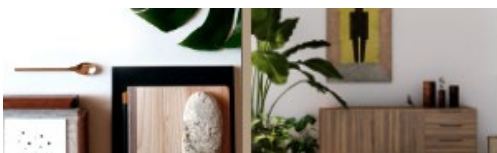
The spectrum is the range of colors from red having the longest wavelength to violet with the shortest wavelength that is produced when a beam of light is passed through a prism.

Intensity is the amount of light being used.

Within this section of design we will explore many of the elements of light including sources, fittings, types and uses and a basic system of designing lighting.

As always, in all aspects of design, as you think about the design of the lighting you need to be aware of all the other elements within the room and what you are trying to achieve.

Every room's shape, size and mood are directly dependent on the type and quality of light that illuminates it. The source can be from a single incandescent bulb in a batten fitting, to a complex set of uplights, downlights and task lights.



**INTERIOR DESIGN
COURSES**

[CLICK HERE TO LEARN ONLINE AT WILLOWCOLLEGE.COM](http://WILLOWCOLLEGE.COM)

**GET
STARTED
TODAY**



INTERIORDEZINE.COM



[Candela, Lux, Lumen](#)

[Color Rendering](#)

[Lighting Checklist](#)

[Design Tips](#)

[Design](#)

[Lighting Existing Rooms](#)



INTERIORDEZONE.COM

[Lighting New Rooms](#)

[Lighting Planning](#)

[Lighting Terms](#)

[Types of Lighting](#)

[What is Lighting](#)

Click on the links below to subscribe to the free courses

[Decorating Course](#)

[Curtain Design Course](#)

[Color Course](#)

For the other parts of Are You an Undiscovered Interior Designer in the series
Visit [Free Downloads](#)

Interiordezone.com has been online for over 17 years providing free Interior Design and Decorating information. We have also set up a new Interior Design College which offers interactive online courses. To learn more visit WillowCollege.com today.

