

## Using Color Effectively

Terms to Learn
color
color spectrum
color wheel
primary colors
secondary colors
tertiary colors
hue
value
tint
shade
tone
intensity
complement
pigment
warm colors
cool colors
color harmony
monochromatic color harmony complementary color harmony split-complementary color harmony double-complementary color harmony analogous color harmony
triadic color harmony
neutral color harmonies
color scheme

## Chapter Objectives

After studying this chapter, you will be able to

- analyze the psychological impact and meaning of different colors.
- summarize how color influences human behavior
- analyze and describe the relationships between colors on the color wheel.
- evaluate the use of color harmonies in planning interior designs.


## Reading with Purpose

On a separate sheet of paper, write down the main headings from this chapter. Leave space for note-taking under from this chapter. Leave space for note-taking under each heading. As you read the chapter, write down three following: How does this information relate to what I already know about color?


Although there is no single specific system for identifying ways all people respond to color, some of the effects for each of the following colors may include:

- Red is associated with power, danger, fire, strength, and passion. It is bold aggressive, exciting, and warm. It demands attention. Red can make you feel energetic. However, too much red in a room can be overpowering.
- Orange is hopeful, cheerful, warm and less aggressive than red. It expresses courage and hospitality. It can make a room feel energetic and friendly.
- Yellow is friendly, happy, and warm. It is associated with sympathy, sunlight, prosperity, cowardice, and wisdom Yellow rooms are cheerful, light, and airy. However, pure yellow draws attention due to its brightness, so take care when using it in large amounts.
- Green is the color of nature. Consequently, it is refreshing, friendly, cool, and peaceful. Additional meanings include hope, good luck, and envy. Green mixes well with other colors and looks especially good next to white.
- Blue is cool, quiet, and reserved. It is associated with tranquility, serenity, and formality. Blue can be soothing and peaceful. It can be especially and peaceful. It can be especially pleasing whe much blue white However, too much blue in a room can be depressing.
- Violet is a royal color. It is dignified and dramatic. It works well with most other colors.
- Blackis sophisticated and mysterious. Itis associated with wisdom, evil, and death. Small amounts of black help ground a room, or may add a timeless, classic elegance. When used in large quantities, however, black may be oppressive.


## LINK TO SOCIAL STUDIES \& CULTURE

## Color Psychology at Work

Color is a vital tool for interior designers because it impacts how people feel. Vibrant colors, especially oranges and reds, enliven the seating areas of many fast-food restaurants. They tend to stimulate customers' appetites

Designers working for clients in various industries use color to achieve other goals. For example, designers of airplane interiors avoid using large expanses of fast-food reds and oranges. Their goal is not to stimulate appetites, but to create a relaxing environment for passengers. Neutrals and muted shades often work well. In hospital rooms, color is used to create spaces that do not raise anxiety or trigger depression among ill or injured people.

In residential settings, designers often use the color blue in bedrooms because it has a calming and peaceful effect.

- White is fresh, peaceful, and pure. It is associated with youth, innocence and faith. White can make room look crisper and livelier.
People feel most comfortable when colors in their surroundings reflect their personalities. For instance, outgoing people might choose bright red or yellow for the main color in a room Shy people might feel awkward in a red room. Instead, they might prefer a room that features a soft blue or green.

When making color decisions for your home or the home of a client, consider the preferences of each family member. No single color will satisfy everyone. However, the color and design of the social area of the home should make all members feel as comfortable as possible. Use individual color preferences in personalized sleeping areas and other private work or play spaces.

The Color Spectrum
The color spectrum is the full range of all existing colors. A beam of white light produces spectral colors as it passe through a prism. Although limit less in number, more than 10 million colors have been identified in the color
spectrum. Each distinct color derives from a few basic colors. The rainbow in 11-2 is the ideal example in nature of how sunlight can separate into a continuous band of colors, or a spectrum. In the case of a rainbow, the raindrops themselves serve as tiny prisms separating the light.

The variety of colors possible in nature is virtually limitless. Paint manufacturers have translated the spectrum into several hundreds of different paint colors, 11-3.

## Activity <br> Borrow a prism from the science departme Experiment windividing light into its component <br> colors. <br> Discuss <br> Why do you think a person feels most comfortable when surrounded by colo personality?



What are the dominant
colors in the school's interior
and the sports teams? Why
were chosen?

## Activity

Borrow a palette of paints
from the art department.
Notice how they are
arranged. Why do you think
they are in this order? Are all palettes arranged in the
same
same order?

## Vocabulary

Define hue and value by using both terms
same sentence.

## The Color Wheel

Color relationships are easy to understand when you learn a few basic principles. The standard color wheel is the tool used to best illustrate these principles. The color wheel, 11-4, is the most commonly used tool to understand the basis of all color relationships. It is made of three concentric rings: an outer, middle, and inner ring. The middle ring of the color wheel consists of three types of colors: primary, secondary, and tertiary.

Yellow, red, and blue are the primary colors. They are the basic colors and you cannot create them by mixing other colors. However, mixing, lightening, or darkening the primary colors can make all other colors.

Orange, green, and violet are the secondary colors. Mixingequal amounts of two primary colors produces these colors. Orange is a mixture of red and yellow. Green is a mixture of yellow and blue. Violet is a mixture of blue and red. Look again at the color wheel. Notice each secondary color is located halfway between the two primary colors used to make it.

The other colors in the middle ring of the color wheel-yellow-green, blue-green, blue-violet, red-violet, redorange, and yellow-orange-are the tertiary colors, or the third level of colors. Another name for the tertiary colors is intermediate colors. The names of tertiary colors reflect the names of the two colors used to make them-an equal mixture of a primary color with a secondary color adjacent to it on the color wheel. Note that their names always have the primary color listed first. For example, blue-green is correct but not "green-blue."

The lightest color on the color wheel is yellow and it is always at the top of the wheel for that reason. Violet is the dark est color on the color wheel. It is directly opposite from yellow at the bottom of the wheel.
Color Characteristics
Each color has three characteris tics: hue, value, and intensity. Various tools illustrate these characteristics For example, the color wheel shows hues and some values. Separate scales, such as the color rendering index (CRI), how color values more completely as well as color intensity. You will learn more about the color rendering index in Chapter 17
Hue
A hue, or color name, is the color in its purest form, with no added black gray, or white. It is the one characteristic that makes a color unique. It is what makes red different from blue and green different from yellow. It is the specific, individual nature of each color.

## Value

The value of a hue is the relative lightness or darkness of a hue. The middle ring of the color wheel shows the normal values of hues. The normal values of some hues are lighter than the

## LINK TO SCIENCE \& TECHNOLOGY

Visible Light and the Electromagnetic Spectrum
Light is a form of energy called electromagnetic radiation. It travels through space as oscillating waves. From crest to trough, these waves range in size from large as a building to small as a microscopic particle. Wavelength is the distance between the crests of two adjoining waves. Frequency is the rate at which a wave oscillates or fluctuates and is measured in hertz. The chart shows the electromagnetic spectrum arranged according to wavelength and frequency in hertz. As the length of a wave increases, its frequency decreases.


Visible light makes up a small part of the electromagnetic spectrum and it's the only part you can see. Visible light consists of the colors you see in a rainbow-red, orange, yellow, green, blue, and violet. These colors form the basis for the color wheel interior designers use for creating color schemes

The spectrum also includes other forms of energy you encounter every day: infrared, radio waves, microwaves, X-rays, gamma rays, and ultraviolet rays. Many consumer electronics products utilize the electromagnetic spectrum. Can you identify a few of them?
normal values of others. For instance yellow has the lightest normal value of any color in the middle ring of the wheel. As you move away from yellow on the color wheel, the normal value of hues become darker. Violet has the darkest normal value.

Adding white to a hue makes its lighter. The addition of white to a hue produces a tint. For instance, pink is tint of red. Adding white to red create pink. Adding white to blue creates baby blue, a tint of blue. Peach is a tint of orange. Lavender is a tint of violet. The innermost ring of the color wheel show the tints. Lighter tints require the addition of more white

You can make the value of a hue darker by adding black. The additio of black to a hue produces a shade. For
instance, burgundy is a shade of red. Adding black to red creates this shade. Navy blue is a shade of blue and is created by adding black to blue. Darker shades require the addition of more black. The outer ring of the color wheel shows the shades. Refer again to the color wheel to identify the normal value of hues, tints, and shades.

Adding gray softens the value of a hue, which produces a tone. Rose is a tone of red. Wedgwood blue is a tone of blue, created by adding gray to blue. Note that adding light gray to a hue causes confusion with a tint. Likewise, adding dark gray to a hue can cause confusion with a shade. However, there confusion with a shade. However, there
is a difference. Medium grays, of course, are the easiest to recognize as tones when mixed with hues


11-4
The arrangement in a color wheel provides a basis for all color relationships

Figure 11-5 pictures a valuescale. The left column shows the range of tints obtained by adding greater amounts of white to the blue color. The right column shows the range of shades obtained by adding greater amounts of black to the blue.

## Intensity

Intensity refers to the brightness or dullness of a hue. The middle ring of the color wheel shows the normal intensity of each hue.

One way to dull a hue, or lower its intensity, is to add some of its complement. The complement of a hue is the


11-5
Values for the color blue, ranging from tints to shades, are shown on this value scale.
hue opposite it on the color wheel. For instance, blue is the complement of orange. To lower the intensity of orange, you add varying amounts of blue, as shown in 11-6. To lower the intensity of red, you add small amounts of its complement, green. Examples of highintensity colors include hot pink and fire-engine red. Smoky blue and rust are examples of low-intensity colors. Another way to lower the intensity of a hue is to add gray, making the color a tone.
Neutrals
Although neutrals are not really colors, they are usually classified as colors, they are usually classified as colors when discussing design. Black, white, and gray all collrals. Black is the combination of all as a pigment. A pigment is a coloring agent used in paint and printed materials. In contrast to black, white used as a pigmen of black and white Brown and nation of black and white. Brown and tombining shades are also neutrals. Combining equal amounts of complementary colors forms a brown color
By adding a neutral color to a hue, the value of the hue changes to either a tint or a shade. This makes the hue less intense. With any of these changes, neutralization of the hue occurs. Neutralized hues blend better with other colors


11-6
Adding blue to orange reduces the intensity of orange, making it a duller color.

## Discuss

What impact do you think
color has on attitudes?
see very intense colors?

## Art Activity

Use tempera paints to
create various intensities a
Discuss $\qquad$ Discuss How do you make a color
less intense?
Activity
Use tempera paints to
Use temperap paints to
change the intensity of a hue by combining it with a neutral pigment.
iscuss
If you wanted a very large
room to feel cozier, wha
would be a choice for its walls? Why?

## Reflect

Is there a room in your
school, home, or some
other place you frequent that always makes you fed
cold? What color is the room? How could a possib change in color help you feel warmer?

## Discuss

Study the photos of Figure 11-7. Why do you think color makes so much difference in the feel of temperature in
a room?

11-7
By comparing
these two living
rooms, you can sense the warmth created by the use of yellow and red ( A ) and the feeling of coolness generated by the use of green and blue (B).

## Warm and Cool Colors

Colors can be classified as either warm or cool. Although the actual temperature may be the same through out an entire home, some rooms may seem cooler or warmer due to the usage of certain colors in decorating.

Warm colors include yellow, orange, red, and the colors near them on the color wheel, with red being the warmest They are called warm colors becaus they remind us of fire and the sun.

Warm colors are the advancing colors. Warm-colored objects appear closer to you. Warm-colored walls look closer together. For example, a room painted red, yellow, or orange appears smaller than its actual size.

Warm colors attract your attention. They can make you feel happy, energetic, and full of excitement. Research shows the color red actually stimulates the nervous system and can increase blood pressure, heartbeats, and breathing rate. Many advertisements use warm colors to make you notice them Restaurants use warm colors to increase your appetite. Locker rooms use them to generate excitement. Warm colors in homes make household members feel lively and cheerful. An overuse of warm colors, however, may make people feel nervous or tense, especially if they are full-intensity colors.

Cool colors are opposite the warm colors on the color wheel. These include blue, green, violet, and the colors near them. They are cool colors because they remind people of water, grass, and trees. Cool colors are receding colors. They make objects seem smaller and walls seem farther away than they really are Decorating a small room in cool colors can make it appear larger than actuality.

Cool colors are quiet and rest ful. Hospitals often use them to help patients relax and feel calm. They are also popular for bedrooms. With overuse, however, cool colors may make people feel depressed.

Warm and cool colors create different moods that make people feel differently, 11-7. For example, workers in an office complained their lunchroom was always cold. When the employer changed the light blue room to orange, the complaints stopped even though the temperature never changed.

## Color Harmonies

The surest and easiest way to achieve success when using color is to follow one of the standard color harmonies. A color harmony is a pleasing combination of colors based on their respective positions on the color wheel. There are seven basic color harmonies: monochromatic basic color harmonies: monochromatic,


A

B



Activity
Create a brochure showing all of the color harmonies by using magazine pictures or fabric swatches as examples.

11-8


B

Green is the basis for this monochromatic color harmony.
Photography Courtesy of Kohler

Although such a sharp contrast is fine for some rooms, most rooms are more comfortable with less contrast. Varying the values and intensities of the colors can do this along with varying the amounts of the colors, 11-9. The more one color dominates the other, the less noticeable the contrast.
Split-Complementary Color Harmony

Using one hue with the two hues adjacent to its complement creates a split-complementary color harmony. For example, if you choose the blue hue first, you would look directly across the color wheel to find orange, its complement. You would then select the colors on both sides of orange to establish your split-complementary color harmony. The resulting color harmony uses blue, yellow-orange, and red-orange, 11-10. With this color selection, blue will likely be the dominant color, while yellow-orange and redorange provide lively contrast.

Double-Complementary Color Harmony
Selecting two colors and their complements from the standard color wheel creates a double-complementary color harmony. In this way, you use four colors to create the color harmony. One example of a double-complementary color harmony results from pairing red and green with violet and yellow, 11-11. As long as each pair is composed of complementary colors, you may use any combination of pairs.
Analogous Color Harmony
Selecting related hues from the standard color wheel creates an analogous color harmony. These are hues that are next to each other on the color wheel In an analogous color harmony, usually three to five hues are used. Since they are related, they blend together well One color seems to merge into another Even when the colors in an analogous

Shades of green and red are used in this contemporary bedroom to create a complementary color harmony.


11-10
A split-complementary color harmony uses a main color with the colors on both sides of its complement.
color harmony are all warm, the room will be more restful than one that uses colors from both sides of the color wheel. Figure 11-12 shows an example of an analogous color harmony.

An analogous color harmony will look best if you choose one color as the best if you choose one color as amounts of the others to use smaller and variety. You may also want to use a tiny amount of an unrelated color as an accent.
Triadic Color Harmony
A triadic color harmony uses any three colors that are equally distant from each other on the standard color wheel. The triadic color harmony will follow a The triadic color harmony will follow a pattern of using every fourth color on the color wheel. For example, yellow,
blue, and red-the primary colorsblue, and red-the primary colorsform a triadic color harmony, 11-13. The secondary colors-green, orange,
and violet-also create a triadic color harmony. The two other possible color harmony. The two other possible color combinations are: yellow-orange, redviolet, and blue-green; or red-orange,
blue-violet, and yellow-green. Designers use great care and skill to achieve pleasing triadic harmonies Changing pleasing triadic harmonies. Changing values and inten sharp contrasts.

Discuss<br>How does the<br>complementary color Figure 11-9 prevent a feeling of sharp contrast?

## Activity

Research how businesse decide what colors to use
in their interior spaces. Use in their interior spaces. Use
the keyword color analysis to search the Internet. Write an essay on the guidelines
you find.

## Refiect <br> Picture the uniforms of sports teams that you

 harmonies of their uniforms?

11-12
An analogous color harmony using yellow, yellow-orange, orange, red-orange, and red, gives this room a vibrant appearance.

Neutral Color Harmony
Although black and white are not hues on the standard color wheel, they are the basis for neutral color harmonies. Combinations of black, white, and gray create neutral color harmonies. Brown tan, and beige can also be used. Sometimes adding small amounts of other colors to neutral color schemes gives the room more interest, 11-14.

## Using Color

 HarmoniesNow that you have learned about color and the color harmonies, you can begin to use this information to create interior design color schemes for a home. A color scheme is the combination of colors selected for the design

## LINK TO SCIENCE \& TECHNOLOGY

The Anatomy of Color
Objects absorb and reflect light. The color that you see depends on the wavelength and frequency of the reflected waves. Red has the longest wavelength; violet has the shortest.

Humans have trichromatic color vision. The key part of the eye responsible for color vision is the retina. This area, at the back of the eye, contains millions of light sensitive nerve cells called rod and cone cells. Rod cells enable you to see in low light. Cone cells enable you to see color and detail.

The tri in trichromatic refers to the three types of cone cells Each type is sensitive to waves of a different part of the visible light spectrum. "Blue cone cells" react to the shorter waves on the blue end of the color spectrum. "Red cone cells" react on the blue end of the color spectrum. "Red cone cells" react
to longer waves on the red end of the spectrum. "Green cone cells" react to medium-length waves in the green spectrum.

When light enters the eyes and hits the retina, it stimulates the cone cells and sends electronic impulses to the brain.


The signals from the cone cells are transmitted to the brain.
In a complex process that researchers are still trying to understand, the human brain collects and processes this and other information to produce a color image.

or style a person wants, the lifestyle of the family members, the function or the way the occupants will use the room, the items in the room, and the room's ocation.
Moods and Styles
You can create a variety of moods in a room through the use of color. For example, you may want a room to feel restful, or you may want it to appear exciting. Choosing cool colors that have similar values will create a restful mood in the room, such as in 11-16. Choosing warm colors with contrasting values will make the room feel exciting.
You can also choose colors that will create a certain style in a room. Different styles, such as southwestern or country, often suggest the use of specific colors. You can use these colors in different color harmonies to achieve the style you want.
In a southwestern-style room, for example, you may choose warm desert colors, such as rust, sunset orange, brick and sand. In a country-style room, you may choose low-intensity shades of reds, blues, oranges, and yellows.

## Lifestyles

Some people have active lifestyles while others lead quieter lives. The colors you choose depend on the lifestyles of household members. For instance, with small children, give consideration to darker colors and shades that do not show dirt easily. In contrast, a household of adults may choose lighter colors for the walls and upholstery because upkeep is less of a concern.

The colors you choose for each room also depend upon how they are used. Primary and secondary colors of normal intensity are fine for a child's room, such as in 11-17. If you use the same hues in an adult's bedroom, however, softer tints or tones at lower intensity levels are preferable.


Discuss
After studying the CADD mage of Figure e11-16 What do you think was the
inspiration piece from which all colors were selected?

## Enrich

Take a virtual tour of a reputable furniture company to view the furriture groupings and color Print three room example and identify the color harmonies for the class.

11-16
By using a CADD program, you can test how a paint color will look in a room to see the warmth or coolness it creates.
Courtesy of Software by Chief Architect

## Function of the Room

While teens may sleep, study, and socialize in their bedrooms, most adults use their bedrooms for rest and relaxation. In this case, cooler colors and les drama are more conducive to good sleep. A den or family room where everyon meets and socializes is often more appropriate in warm colors. For a writer or an accountant that works alone from home the home office may be best in cool color In contrast, a salesperson who talks on the phone most of the day may perform best in warm colors. When choosing colors and color sches, give thought ful attention to colors that support th function and purpose of a room.

## Items in the Room

Another way to choose color harmonie is to consider the usage of all items in the room plan. For instance, plans for a room may include an area rug, couch, or favorit picture. To create a color scheme around any of these items, you need to select on color used in the object. This color become
the base, or main color. After choosing the base color, use your knowledge of color harmonies, values, and intensities to pick colors to go with it, 11-18

You also need to consider the type of lighting used in the room. The colors you select must work well during both day and night. This means you must view the intended colors during daylight hours in natural light and at night under the influence of artificial light. Always make your final color selections in the actual room and under


## 11-17

The use of primary and secondary colors in this child's room give the room a excitement. excitement.
Photography Courtesy of
JELD-W.WN Windows and
Doors
a color harmony that uses warm colors A southern exposure receives the mos sunlight and generally makes colors appear bright and warm. Sometimes cool colors are preferred for rooms with southern exposures, 11-20.

You cannot assume, however, the quality of light entering a room from a specific direction is always the same. The light entering a bedroom with a northern exposure will change significantly, for example, if it reflects off a bright white house next door. Also, a room with a southern exposure will not be sunny if a covered porch overhangs the windows and doors. Even the light that filters through trees outside a window can change the quality of sunlight entering the room. Consequently, the best rule of thumb is to view a color sample in the actual room at different times of day and night to examine all lighting factors.

When considering location, you also need to think about the colors used in adjoining rooms. The new colors you choose should blend with those used in adjoining rooms. In general, color should not change abruptly from room to room Instead it should make a gradual transition from one space to another.

If the location of a dining room is nex to the living room, you can use the same base color in both rooms. You might use an analogous color harmony with yellow as the base color of the color scheme in both rooms. In the living room, conside selecting yellow as the dominant color with the other analogous hues play ing secondary roles. Then use the same analogous color harmony in the dining room but expand the harmony from three to five hues and add interest by changing the tints or shades of the hues selected. You might also choose to have yellow play a less-dominant role in the dining room than it did in the living room. Introducing a color in the split complementary color harmony with yellow as an accent will add excitement


11-20
to the room. Since yellow is the base color of all the harmonies in both rooms, it provides a smooth transition.

There is an exception to the rule of blending colors in adjoining rooms. In homes using contemporary design, the walls of adjoining rooms may intentionally have different, bold colors. Devote special care, however, to applying the basic rules of color harmonies so the abrupt transitions result in good design.
Using Color Correctly
As you work with color, the following guidelines will help you use color well:

- Applying colors to large areas makes them appear to gain intensity. Because of this, a color you select from a paint chip may appear too intense or dark when painted on all four walls of a room. At other times, a paint chip that appears soft and easy on the eye will fade to nothing when you apply it to he four walls of a room. It is advisable to paint a large swatch of the color on the wall or piece of foam board to help visualize how a paint color will appear on a wall
- Using contrasting colors draws attention. For example, a white sofa against a dark wall will draw more attention than a white sofa against a white wall,

Because this bedroom has a southern exposure, the
designer chose designer chose decorate the roo These colors reom. this room looking serene, light, and airy.

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Reflect
Study the natural lighting room a home. Is it direct, fileered or reflected? What lighting type
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Vocabulary Describe what a smo Describe what a smo
transition means in reference to the color schemes of severa
adjoining rooms.

Discuss
Have you been in public color changes to send a special message or convey a certain feeling? Name some examples and give your opinions tor the use abrupt color changes.

| Enrich |
| :---: |
| Obtain a paint sample of a favorite hue from a paint store or home improvement store. Examine the color in at least three locations: near full sunlight, in a dark cormer or hallway, and under fluorescent lighting. How does the hue change under various lighting conditions? Is it your favorite in all lighting? |
| Discuss |
| How does color help to create a focal point in the room shown in Figure 11-22? |
| Activity |
| Using the guidelines in the text, create a checklist that would help people use color correctiy |
| Activity |
| Review several Web sites, such as those of paint manufacturers and interior design magazines, to identify the current color trends for housing. Report your findings to the class. |

## 11-22

The cabinetry and wicker seating use the same green color, but the chair texture makes the room look darker. Lexington Furniture Lexington
Industries

11-21. While you may want to avoid a totally neutral room, remember too many strong contrasts in a room can be confusing and tiring.

- Color harmonies are easier on the eye when one color, the base color, dominates. The dominant color should cover about two-thirds of the room area. When you use equal amounts of two or more colors in a room, your color selections can become a distraction and appear cluttered as each color competes for attention.
- When choosing colors for large areas, such as walls and floors, select lowintensity colors. If you use highintensity colors in large amounts, they can become overpowering. Instead, use high-intensity colors in small noull piece of furnitureor small pieces of furniture.
- Heavily textured surfaces make colors appear dark. This is because the light strikes the surface at different angles, making the item appear to have greater depth, 11-22. When trying to match


11-21
Color harmonies look best when your
base color dominates the room.
fabrics, it is important to have samples of the fabrics you are matching. For example, if you are matching drapery fabric to carpet, make sure you have samples of the carpet with you.

- If a room is very large, consider choosing colors that will make it look smaller. Shades, high-intensity colors,

and warm hues that have advancing qualities make a room appear smaller
- If a room is small, color can make the room appear larger. Tints, lowintensity colors, a monochromatic or analogous color scheme, or cool
hues that have receding qualities make a room look larger.
Choosing the right colors, creating color harmonies, and following the color guidelines is important, $11-23$. This will help you make color work well for you, your home, or your customer.


11-23
Using the color guidelines to choose the right oolors and creat pleasing colo mportant for you or a client.
Photography Courtesy of
Calico Corners-Calico
Calico Cormers
Home Stores


## Discuss

If a home's interior uses
color in a way that reflects the members' preferences and lifestyles, should ite about incorporating color about incorporating colo
trends?

Enrich
associated with housing interiors and exteriors during specific period in U.S. bsed inside and outside a fashionable home.

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Nore
For researching
color schemes, have
```

students explore www
housebeautiful.com.
Note

## CAREER FOCUS



Color Designer
If you share some of the following interests, you may want to consider a career as a color designer. Talents and Skills: Do you like to experiment with the colors of your clothing and accessories? Do you realize that color plays an important role by having a positive or negative impact on emotions? Do you enjoy being in spaces where to colors give you a sense of peace? Have you found enjoymentwors and paint throughout your aducation? Skill Skill requiremer for a color speciaist nclude. excellent eye for colr, horough understanding of color psychology, the color wheel, and how to use different color harmonies; and the ability to organize details and research information. In addition, excellent speaking, writing, and listening skills are needed to communicate with a client
Career Snapshot: Color designers work with manufacturers and interior designers They provide many different design services as well as marketing. A color designer must have a strong combination of the two. They consult manufacturers about colors that will work best for trends in new furniture, paint, wall coverings, fabrics, rugs, and other accessories. For example, a color designer may work for a textile firm and may recommend yarn colors that will be the most popular and marketable. Color designers must be able to recognize very subtle differences in colors. They must stay current in their research to predicting color trends.
Education/Training: A bachelor's or a master's degree is preferred. Courses include color theory, psychology of color, art, art history, interior design, and computer programs Licensing/Examinations: No license required.
Professional Associations: The Color Marketing Group (CMG)
(www.colormarketing.org/), The American Society of Interior Designers (ASID) (www.asid.org), the International Interior Design Association (IIDA) (www.iida.org), the Inter-Society Color Council (ISCC) (www.iscc.org)
Job Outlook: The many career possibilities for a color designer in interior design will grow faster than average through 2018. Color designers may work for a large firm that specializes in color design, an interior designer specializing in color design, or an individual company as a consultant. Some choose freelance work for projects of interest.

## Summary

Color is one of the most important elements of design. It can create and communicate different moods. Color has it own physiological and psychological effects on people.

The basis of all color relationships is the color wheel. Colors in the middle ring of the color wheel are primary, secondary, or intermediate colors. Color has three characteristics-hue, value and intensity. The cool colors are located on one side of the wheel, and the warm colors are on the other.

When colors are used together in a pleasing manner, color harmonies are created. They may be monochromatic, complementary, split-complementary, doublecomplementary, analogous, triadic, or neutral. Neutral colors are black, white, gray, tan, beige, and brown.

When choosing a color harmony for a personal color scheme, first choose the right colors for a home and the lifestyle of the occupants. Then following certain guidelines will coordinate the colors you select into good design.

## 

2. Summarize the feelings each of the following colors evokes in people: red, green, and violet.
3. Name the secondary colors. What primary colors, in what proportions, are used to make each?
4. Which color name is listed first in the name of a tertiary color?
5. Contrast value and intensity of color.
6. What are the differences between a tint, shade, and tone?
7. Summarize how to neutralize a hue.

8. Name two warm colors and two cool colors.
9. Identify an example of each of the seven color harmonies.
10. What factors influence the way color harmonies are used in planning an interior design?

Answer Key
age, gender, culture,
and life experiences
Red conveys power,
Red conveys pow
danger, strength, danger, , trengin,
excitement, and boldness. Green
conveys nature, conveys nature,
peace, friendiness, and coolness. Violet
conveys royalty, dignity conveys roy
and drama.
orange-equal amounts
orange-equal amou
of yellow and red; green-equal amounts green-equat amount violet-equal amounts of red and blue
11. Summarize the guidelines for using color correctly in a room design.

primary color


12. Draw conclusions. No two people perceive color in exactly the same way and indeed some people are unable to distinguish between certain colors at all. How could these behaviors pose an obstacle to an interior designer's presentation to a committee in charge of finalizing selections for new corporate offices? Draw conclusions about what techniques the designer could use to overcome objections.
13. Identify alternatives. Assume you are working with two clients who want to redesign the master bedroom in their home. The room has a northern exposure with little natural lighting. One client prefers warm, intense hues while the other prefers cool hues. In addition to sleeping, your clients also use the room for reading. What color alternatives would you suggest that both clients will find pleasing? How can lighting impact your color choices?

Value is the lightness
or darkness. Intensity
or darkness. Intensity dulliness.
6. Adding white to a hue makes it lighter, which produces a tint. Adding
black makes the value darker, which produce a shade. Adding gray softens the value, which produces a tone.
8. (List two warm colors:) yellow, orange, red, o yellow, orange, red, o
other colors near them oiner colors near them
on the color wheel; LLis two cool colors:) blue, green, violet, or other colors near them on the color wheel
9. (Student response. See
pages $298-302$ of the text.)
10. moods anc styles, lifestyles, function of the room, items in the room
location of the room
(See pages 309-311 o
the text.)
ext.)

14. Model home tour. Visit a model home and observe the use of color. Record your observations. Did the colors match your preferences? Did the colors reflect urrent trends? How were colors used to create mood in various rooms? Identify everal psychological impacts the colors may have on some people. Summarize your findings in a brief report to the class.
15. Analyze color. Analyze the color scheme of your bedroom or other room in you home, or in the home of someone you know. Which of the colors used is your favorite? How long has this room had this appearance? What color scheme was used before? If you could redecorate next week, what colors would you select? What do you think your color preferences reveal about your personality? Take ne or more pictures of this room with a digital camera to place in an electronic presentation. Include examples and colors you might want to use in the future. Share your electronic presentation with the class.
16. Color comparison. Locate a home or business in the community whose exterior has a pleasing combination of colors. Identify the colors used and how they were used. Also, identify a building's exterior that represents the opposite of pleasing to you. What colors are used? Which colors would you change if you had the job of updating the look of the building on a budget?

## Academic Connections

17. Social studies. Search the Internet for current color trends in residential design What cultural influences, elements of nature, or other factors inspire the new color rends? How strongly does culture influence color? Which of the new color trends do you find most appealing? Share your findings during a small group discussion.
18. Science. Use Internet or print resources to investigate how light reflectance value (LRV) can influence an interior designer's choice of colors for a room design. How might LRV influence the aesthetics and function of a room design? Write a summary of your findings to share with the class.
19. Ans Applications that display good interior design. (Perhaps some are in your home or in historica homes that you have visited.) For each room, identify the type of color harmony that predominates. Also, analyze possible reasons for the color harmonies selected, given the purpose of each room. Using presentation software, combine your photographs and explanations to share with the class.
20. Computer design project. Using CADD or another popular interior-design software program, create two small rooms of the same dimensions. Cover the walls of one room with light, dull, cool colors. Cover the walls of the other room with dark, bright, warm colors. Analyze which room looks larger and which looks smaller. Why? Print a copy of the room colors for each room. Write a brief report summarizing your analysis.

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21. Color consulting. Imagine you are a professional color consultant who has been hired to help select the room colors for a new community center in your neighborhood. Based on your knowledge of the psychological effect color has on people, what colors would you use in each of the following spaces? Why?

- children's recreation room
- reading room for older adults
- hospitality room with a snack bar
- small nature museum room
- drama room for theatrical rehearsal

22. Portfolio. Continue the storyboard for the elements of design you started in Chapter 10. Add color as a design element and provide samples of all color harmonies, labeling the colors used. Keep a copy of your storyboard in your portfolio.

## Leading the Way with Colo

Do you find the psychology of color fascinating? Are your interested in the impact of color on overall room design? If you are, consider joining forces with a community organization, such as Rebuilding Togethere. Such groups repair and modify homes for people with limited incomes, including older adults, people with disabilities, and veterans. For an FCCLA Community Service project, consult a leader in the organization about working with one or more clients to create a functional and aesthetically pleasing color palette for a room or entire home.
Use the FCCLA Planning Process and the Community Service Project Sheet to plan, carry out, and evaluate your project. See your adviser for information as needed.

