

# Converting Colors

XYZ(22.0840, 17.8202, 78.6196)

Have a look what the booklet for  
XYZ(22.0840, 17.8202, 78.6196)  
contains.

<b>XYZ(22.0840, 17.8202, 78.6196)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(22.0840, 17.8202,  
78.6196)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3F6DE8
RGB	63, 109, 232
RGB Percent	25%, 43%, 91%
CMY	0.7529, 0.5725, 0.0902
CMYK	0.73, 0.53, 0.00, 0.09
HSL	224°, 79%, 58%
HSV	224°, 73%, 91%
XYZ	22.0840, 17.8202, 78.6196
YIQ	109.2680, -66.8990, 28.5010

# Conversions

## Conversions Part 2

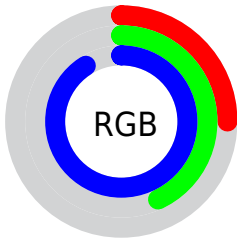
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	63, 99, 232
Decimal	4156904
CIE Lab	49.28, 26.02, -66.88
CIE LCh	49, 71.762, 291.257
Yxy	17.8202, 0.1863, 0.1504
Android (android.graphics.Color)	4282346984 (0xFF3F6DE8)
YUV	109.2680, 60.5069, -40.5770
Hunter-Lab	42.2140, 19.5068, -80.8723

# Details

The XYZ color **22.0840, 17.8202, 78.6196** is a dark color, and the websafe version is hex **3366CC**. The color can be described as dark washed azure. A complement of this color would be **51.7379, 52.6378, 12.1376**, and the grayscale version is **14.4602, 15.2133, 16.5673**.

A 20% lighter version of the original color is **39.9809, 37.1869, 99.6783**, and **9.5154, 6.6502, 41.3395** is the 20% darker color. If you saturate the color by 10%, you get **19.2703, 13.9476, 78.0209**, and if you desaturate by 10%, it is **25.8692, 22.7074, 79.3639**.

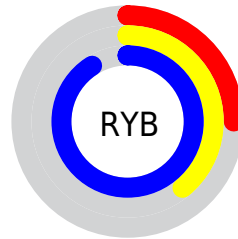
# Distribution



Red (25%)

Green (43%)

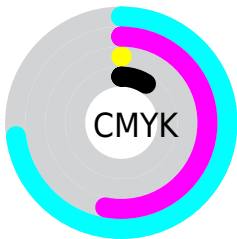
Blue (91%)



Red (25%)

Yellow (39%)

Blue (91%)

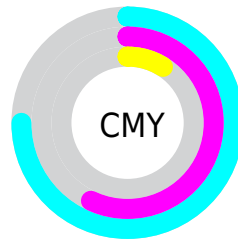


Cyan (73%)

Magenta (53%)

Yellow (0%)

Black (9%)



Cyan (75%)

Magenta (57%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.0840, 17.8202, 78.6196 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 22.0840, 17.8202, 78.6196 by changing the saturation by 10% instead.



■ 22.0840, 17.8202,  
78.6196

■ 22.0840, 17.8202,  
78.6196

255.6088,  
239.8556, 509.8521

■ 14.0356, 10.8210,  
58.0636

■ 46.3626, 39.7307,  
133.2170

■ 8.2273, 5.9466,  
41.4448

■ 63.3235, 55.4108,  
168.0955

■ 4.2938, 2.8126,  
28.3445

■ 83.9860, 74.7533,  
208.5853

■ 1.8696, 1.0347,  
18.3442

■ 108.7153, 98.1426,  
255.1049

■ 0.5591, 0.0000,  
11.0254

137.8769,  
125.9631, 308.0728

■ 0.0000, 0.0000,  
5.9695

171.8361,

■ 0.0000, 0.0000,

158.5991, 367.9076

2.7581

210.9583,  
196.4352, 435.0279

■ 0.0000, 0.0000,  
0.9725

■ 0.0000, 0.0000,  
0.0000

■ 22.0840, 17.8202,  
78.6196

■ 22.0840, 17.8202,  
78.6196

■ 19.2703, 13.9476,  
78.0209

■ 25.8692, 22.7074,  
79.3639

■ 17.3214, 11.0049,  
77.5556

■ 30.7114, 28.6804,  
80.2616

■ 16.3506, 9.3964,  
77.2963

■ 36.6891, 35.8049,  
81.3217

■ 43.8721, 44.1405,  
82.5520

■ 52.3244, 53.7427,  
83.9599

■ 62.1055, 64.6631,  
85.5523

■ 73.2707, 76.9505,  
87.3355

■ 85.8726, 90.6512,  
89.3158

■ 91.5656, 98.6062,  
90.5512

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



15.0431, 17.8202, 84.0626



22.0840, 17.8202, 78.6196



29.1897, 17.8202, 53.1326

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



22.0840, 17.8202, 78.6196



26.4115, 17.8202, 2.4646



7.0861, 17.8202, 14.2907

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



22.0840, 17.8202, 78.6196



51.7379, 52.6378, 12.1376

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



8.7070, 17.8202, 4.2113



22.0840, 17.8202, 78.6196



18.9848, 17.8202, 0.9812

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



22.0840, 17.8202, 78.6196



32.1138, 17.8202, 8.8178



12.6601, 17.8202, 1.2963



7.5031, 17.8202, 36.2100



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



22.0840, 17.8202, 78.6196



32.4126, 17.8202, 33.9394



12.6601, 17.8202, 1.2963



7.3906, 17.8202, 9.7537

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



22.0849, 17.8207, 78.6201



65.6655, 67.5261, 104.1806



39.5718, 62.2364, 55.3408



13.4028, 13.7182, 22.1914



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



22.0849, 17.8207, 78.6201



22.6425, 15.4668, 96.3997



21.5580, 12.0706, 77.5380



13.9004, 14.5222, 18.2148



9.1669, 5.3959, 42.9415



0.7530, 0.5498, 3.1984



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



37.8174, 21.8163, 16.6858



43.7871, 23.1557, 12.6397



52.3599, 69.7262, 15.4032



14.5373, 14.4321, 15.7639



19.0205, 9.7424, 3.7371



1.4437, 0.7352, 0.4770



# Previews

## White Background



This preview shows how the XYZ color 22.0840, 17.8202, 78.6196 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 22.0840, 17.8202, 78.6196 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

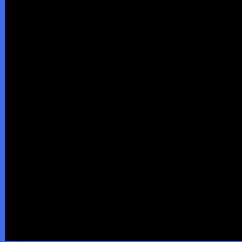
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 22.0840, 17.8202, 78.6196**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.0840, 17.8202, 78.6196.



This preview shows how white text looks on a background with the XYZ color 22.0840, 17.8202,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

22.0840, 17.8202, 78.6196

### Protanopia

21.2156, 17.8061, 80.9160

### Deuteranopia

17.8593, 17.6986, 61.5064



## Tritanopia

12.5105, 17.5646, 27.1570

# Trichromacy



## Original Color

22.0840, 17.8202, 78.6196

## Protanomaly

21.3724, 17.7407, 80.1398

## Deuteranomaly

18.8788, 17.4015, 67.3296

## Tritanomaly

14.8557, 17.1184, 42.0564

# Monochromacy



## Original Color

22.0840, 17.8202, 78.6196

## Achromatopsia

14.5356, 15.2926, 16.6537

## Achromatomaly

15.7150, 15.5457, 32.7442

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.0840, 17.8202, 78.6196 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(63, 109, 232)` looks like.

```
.text, #text, p{  
    color:rgb(63, 109, 232)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(63, 109, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 109, 232) }
```

## Border

The CSS property to change the border of an element to XYZ 22.0840, 17.8202, 78.6196 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(63, 109, 232) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(63, 109, 232) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(63, 109, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 109, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 109, 232);  
box-shadow:4px 4px 4px 4px rgb(63, 109,  
232) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.0840, 17.8202, 78.6196 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 109, 232) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(63, 109,  
232) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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