

# Converting Colors

XYZ(22.3112, 16.8126, 4.9975)

Have a look what the booklet for  
XYZ(22.3112, 16.8126, 4.9975)  
contains.

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# Color

**XYZ(22.3420, 16.8812,  
4.9866)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B15A31
RGB	177, 90, 49
RGB Percent	69%, 35%, 19%
CMY	0.3059, 0.6470, 0.8078
CMYK	0.00, 0.49, 0.72, 0.31
HSL	19°, 57%, 44%
HSV	19°, 72%, 69%
XYZ	22.3420, 16.8812, 4.9866
YIQ	111.3390, 65.0130, 5.6930

# Conversions

## Conversions Part 2

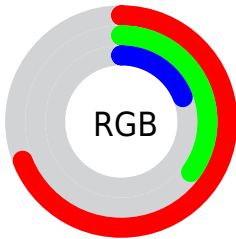
Format	Color
R <sub>Y</sub> B	177, 109, 49
Decimal	11622961
CIE Lab	48.11, 32.24, 38.98
CIE LCh	48, 50.585, 50.404
Yxy	16.8812, 0.5054, 0.3818
Android (android.graphics.Color)	4289813041 (0xFFB15A31)
YUV	111.3390, -30.7331, 57.5847
Hunter-Lab	41.0867, 25.1623, 21.5648

# Details

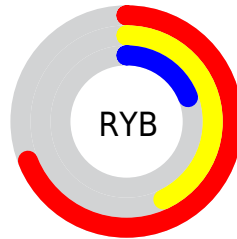
The XYZ color **22.3420, 16.8812, 4.9866** is a dark color, and the websafe version is hex **CC6633**. A complement of this color would be **18.0059, 21.4343, 44.7829**, and the grayscale version is **15.2819, 16.0778, 17.5087**.

A 20% lighter version of the original color is **46.7557, 38.2136, 16.2209**, and **8.4062, 5.5100, 0.6492** is the 20% darker color. If you saturate the color by 10%, you get **21.1053, 14.8929, 3.0795**, and if you desaturate by 10%, it is **23.8904, 19.2584, 7.7214**.

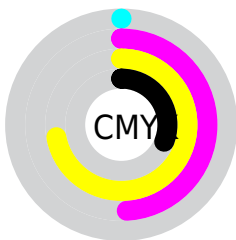
# Distribution



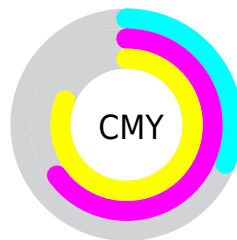
- Red (69%)
- Green (35%)
- Blue (19%)



- Red (69%)
- Yellow (43%)
- Blue (19%)



- Cyan (0%)
- Magenta (49%)
- Yellow (72%)
- Black (31%)




- Cyan (31%)
- Magenta (65%)
- Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.3420, 16.8812, 4.9866 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 22.3420, 16.8812, 4.9866 by changing the saturation by 10% instead.





 22.3420, 16.8812,  
4.9866


 22.3420, 16.8812,  
4.9866


256.9260,  
234.4868, 158.6305


 14.2264, 10.1498,  
2.1808


 46.7853, 38.1214,  
16.2279


 8.3611, 5.4984,  
0.6633


 63.8436, 53.3990,  
25.5004

 4.3806, 2.5426,  
0.0000

 84.6137, 72.2942,  
37.7656

 1.9196, 0.8979,  
0.0000

 109.4607, 95.1913,  
53.4420

 0.5882, 0.0000,  
0.0000

 138.7501,  
122.4747, 72.9482

 0.0000, 0.0000,  
0.0000

 172.8472,

154.5288, 96.7026

212.1174,  
191.7381, 125.1239

■ 22.3420, 16.8812,  
4.9866

■ 22.3420, 16.8812,  
4.9866

■ 21.1053, 14.8929,  
3.0795

■ 23.8904, 19.2584,  
7.7214

■ 20.1530, 13.2678,  
1.9002

■ 25.7720, 22.0428,  
11.3665

■ 19.5798, 12.2439,  
1.3313

■ 28.0076, 25.2544,  
15.9952

■ 30.6158, 28.9111,  
21.6729

■ 33.6137, 33.0296,  
28.4596

■ 37.0174, 37.6260,  
36.4105

■ 40.8420, 42.7152,  
45.5773

■ 45.1017, 48.3117,  
56.0083

■ 49.8102, 54.4292,  
67.7494

# Harmonies

## Analogous

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



25.8017, 16.8812, 10.9119



22.3420, 16.8812, 4.9866



17.5592, 16.8812, 3.0375

# Triad

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



22.3420, 16.8812, 4.9866



8.8307, 16.8812, 14.4867



19.3173, 16.8812, 53.6283

# Complementary

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



22.3420, 16.8812, 4.9866



18.0059, 21.4343, 44.7829

# 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.



14.6206, 16.8812, 56.1796



22.3420, 16.8812, 4.9866



9.1224, 16.8812, 28.6571

# Square

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



22.3420, 16.8812, 4.9866



10.1680, 16.8812, 6.5319



11.0587, 16.8812, 45.4892



23.8376, 16.8812, 39.6128



# Rectangle

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



22.3420, 16.8812, 4.9866



14.5059, 16.8812, 3.0561



11.0587, 16.8812, 45.4892



17.6895, 16.8812, 56.0496

# Sweetspot

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



22.3424, 16.8821, 4.9869



60.1671, 59.1084, 50.8910



23.7069, 13.3347, 24.7912



12.7186, 12.3722, 10.2944



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



22.3424, 16.8821, 4.9869



36.6899, 24.8028, 4.0709



30.1644, 32.5262, 7.5942



8.7112, 8.9350, 8.9180



14.2358, 8.9701, 0.9811



0.5020, 0.3904, 0.0489



# Inverse Universe

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



18.0059, 21.4343, 44.7829



28.2956, 33.0631, 79.3858



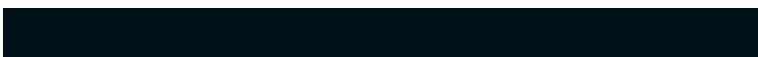
11.5502, 8.5228, 42.6310



8.5086, 9.1633, 10.8266



10.6987, 12.1978, 31.9275



0.3865, 0.4836, 1.0212



# Previews

## White Background



This preview shows how the XYZ color 22.3420, 16.8812, 4.9866 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 22.3420, 16.8812, 4.9866 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 22.3420, 16.8812, 4.9866**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.3420, 16.8812, 4.9866.



This preview shows how white text looks on a background with the XYZ color 22.3420, 16.8812,



# 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

22.3420, 16.8812, 4.9866

### Protanopia

15.6216, 17.0689, 6.3422

### Deuteranopia

17.2510, 16.9588, 4.7470



## Tritanopia

23.7272, 16.8360, 11.8966

# Trichromacy



## Original Color

22.3420, 16.8812, 4.9866

## Protanomaly

17.4969, 16.5942, 5.7708

## Deuteranomaly

18.7621, 16.6686, 4.8133

## Tritanomaly

23.0728, 16.8032, 8.8647

# Monochromacy



## Original Color

22.3420, 16.8812, 4.9866

## Achromatopsia

15.1092, 15.8961, 17.3108

## Achromatomaly

16.6034, 15.5560, 11.3600

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.3420, 16.8812, 4.9866 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(177, 90, 49)` looks like.

```
.text, #text, p{  
    color:rgb(177, 90, 49)  
}
```

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(177, 90, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 90, 49) }
```

## Border

The CSS property to change the border of an element to XYZ 22.3420, 16.8812, 4.9866 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(177, 90, 49) }
```



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

```
.border{ border-color:rgb(177, 90, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 90, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 90, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 90, 49);  
box-shadow:4px 4px 4px 4px rgb(177, 90,  
49) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.3420, 16.8812, 4.9866 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 90, 49) }
```

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

```
.background{ background-color: rgb(177, 90,  
49) }
```

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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