

# Converting Colors

XYZ(22.2478, 17.1040, 52.9969)

Have a look what the booklet for  
XYZ(22.2478, 17.1040, 52.9969)  
contains.

<b>XYZ(22.3208, 17.1470, 53.1722)</b>	3
<i><b>Conversions</b></i>	4
<i><b>Details</b></i>	6
<i><b>Harmonies</b></i>	12
<i><b>Previews</b></i>	24
<i><b>Color Blindness Simulation</b></i>	28
<i><b>CSS Examples</b></i>	31

# Color

**XYZ(22.3208, 17.1470,  
53.1722)**

# Conversions

Conversions Part 1	
Format	Color
Hex	7A64C2
RGB	122, 100, 194
RGB Percent	48%, 39%, 76%
CMY	0.5216, 0.6078, 0.2392
CMYK	0.37, 0.48, 0.00, 0.24
HSL	254°, 44%, 58%
HSV	254°, 48%, 76%
XYZ	22.3208, 17.1470, 53.1722
YIQ	117.2940, -17.0620, 33.8980

# Conversions

## Conversions Part 2

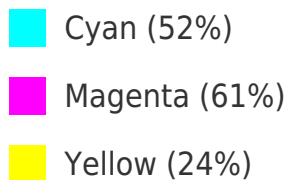
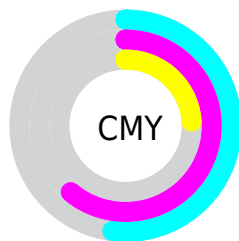
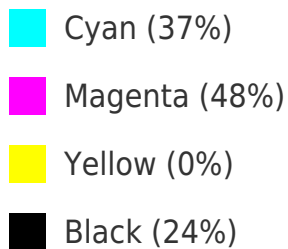
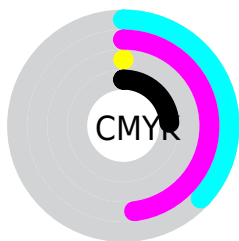
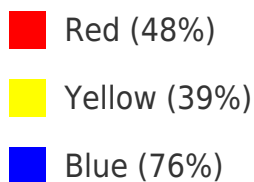
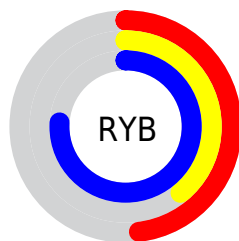
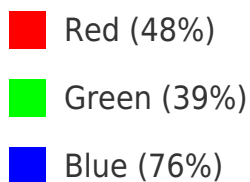
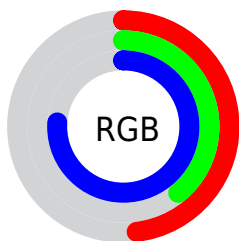
Format	Color
<a href="#">RYB</a>	<a href="#">122, 100, 194</a>
Decimal	<a href="#">8021186</a>
CIELab	<a href="#">48.44, 30.70, -46.39</a>
CIELCh	<a href="#">48, 55.625, 303.500</a>
Yxy	<a href="#">17.1470, 0.2409, 0.1851</a>
Android (android.graphics.Color)	<a href="#">4286211266</a> <a href="#">(0xFF7A64C2)</a>
YUV	<a href="#">117.2940, 37.8161, 4.1272</a>
Hunter-Lab	<a href="#">41.4089, 23.7518, -47.1466</a>

# Details

The XYZ color **22.3208, 17.1470, 53.1722** is a dark color, and the websafe version is hex **6666CC**. A complement of this color would be **38.6055, 48.2746, 19.3404**, and the grayscale version is **16.8904, 17.7700, 19.3516**.

A 20% lighter version of the original color is **46.6107, 38.4454, 96.2308**, and **8.3906, 5.6686, 25.4629** is the 20% darker color. If you saturate the color by 10%, you get **18.7313, 12.8557, 52.5334**, and if you desaturate by 10%, it is **26.6764, 22.4914, 53.9745**.

# Distribution





# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.3208, 17.1470, 53.1722 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 22.3208, 17.1470, 53.1722 by changing the saturation by 10% instead.





 22.3208, 17.1470,  
53.1722


 22.3208, 17.1470,  
53.1722


256.8180,  
236.0181, 416.0305


 14.2107, 10.3394,  
37.5516


 46.7506, 38.5783,  
96.3018

 8.3501, 5.6245,  
25.3357


 63.8010, 53.9708,  
124.6479

 4.3734, 2.6181,  
16.1061


 84.5622, 72.9937,  
158.0729

 1.9155, 0.9358,  
9.4441

 109.3996, 96.0314,  
196.9954

 0.5858, 0.0000,  
4.9312

138.6785,  
123.4683, 241.8338

 0.0000, 0.0000,  
2.1489

172.7643,


 0.0000, 0.0000,


155.6888, 293.0068


0.6447


212.0224,  
193.0772, 350.9328

 0.0000, 0.0000,  
0.0000


 22.3208, 17.1470,  
53.1722

 22.3208, 17.1470,  
53.1722


 18.7313, 12.8557,  
52.5334

 26.6764, 22.4914,  
53.9745


 15.8593, 9.5441,  
52.0456


 31.8385, 28.9517,  
54.9494

 13.6536, 7.1325,  
51.6963

 37.8471, 36.5878,  
56.1067

 12.0546, 5.5269,  
51.4707

 44.7386, 45.4550,  
57.4550

 10.9753, 4.5815,  
51.3451

 52.5475, 55.6047,  
59.0025

10.8378, 4.4622,  
51.3293

61.3064, 67.0858,  
60.7569

71.0462, 79.9441,  
62.7255

81.7317, 94.0944,  
64.8936

86.7377, 96.6751,  
65.1279

# Harmonies

## Analogous

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



16.9027, 17.1470, 62.9726



22.3208, 17.1470, 53.1722



26.7238, 17.1470, 34.1848

# Triad

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



22.3208, 17.1470, 53.1722



21.0684, 17.1470, 3.1399



8.3483, 17.1470, 20.4346

# Complementary

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



22.3208, 17.1470, 53.1722



38.6055, 48.2746, 19.3404

# 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.



9.0121, 17.1470, 8.7453



22.3208, 17.1470, 53.1722



15.7074, 17.1470, 2.3381

# Square

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



22.3208, 17.1470, 53.1722



25.9014, 17.1470, 7.0763



11.4691, 17.1470, 3.6908



9.4207, 17.1470, 38.8164



# Rectangle

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



22.3208, 17.1470, 53.1722



28.0894, 17.1470, 22.0279



11.4691, 17.1470, 3.6908



8.3770, 17.1470, 15.6722

# Sweetspot

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



22.3215, 17.1476, 53.1726



72.4052, 71.2042, 102.3974



29.7588, 36.1353, 56.4456



15.2899, 14.8671, 22.3137



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.



22.3215, 17.1476, 53.1726



33.6649, 22.9724, 95.1296



30.6432, 21.4376, 53.5621



9.7441, 9.8592, 12.6743



7.1869, 2.9654, 33.7502



0.3737, 0.1607, 1.4612



# Inverse Universe

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



34.2521, 23.5627, 41.7725



58.1435, 36.1650, 70.3691



30.0597, 43.8691, 18.9404



10.3932, 10.2059, 12.1611



18.2057, 8.9721, 19.5273

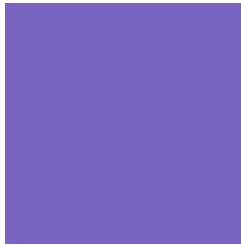


0.8117, 0.3977, 0.9760



# Previews

## White Background



This preview shows how the XYZ color 22.3208, 17.1470, 53.1722 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

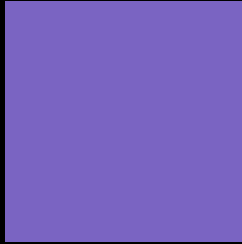
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 22.3208, 17.1470, 53.1722 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

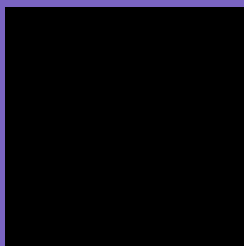
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 22.3208, 17.1470, 53.1722**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.3208, 17.1470, 53.1722.



This preview shows how white text looks on a background with the XYZ color 22.3208, 17.1470,



# 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

22.3208, 17.1470, 53.1722

### Protanopia

19.5333, 17.3842, 60.7185

### Deuteranopia

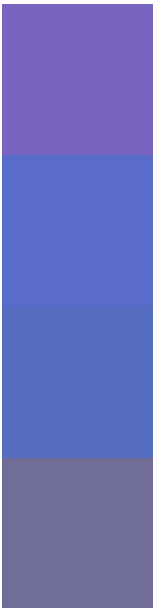
17.8961, 17.4106, 51.7076



## Tritanopia

16.0105, 17.0973, 21.8583

# Trichromacy



**Original Color**  
22.3208, 17.1470, 53.1722

**Protanomaly**  
20.2397, 17.1631, 58.1232

**Deuteranomaly**  
18.9281, 16.9361, 52.1405

**Tritanomaly**  
17.7630, 16.7986, 31.1604

# Monochromacy



**Original Color**  
22.3208, 17.1470, 53.1722

**Achromatopsia**  
16.9083, 17.7888, 19.3720

**Achromatomaly**  
18.4030, 17.3352, 29.1641

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.3208, 17.1470, 53.1722 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(122, 100, 194)` looks like.

```
.text, #text, p{  
    color:rgb(122, 100, 194)  
}
```

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(122, 100, 194) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 100, 194) }
```

## Border

The CSS property to change the border of an element to XYZ 22.3208, 17.1470, 53.1722 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(122, 100, 194) }
```



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

```
.border{ border-color:rgb(122, 100, 194) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 100, 194)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 100, 194); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 100, 194);  
box-shadow:4px 4px 4px 4px rgb(122, 100,  
194) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.3208, 17.1470, 53.1722 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 100, 194) }
```

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

```
.background{ background-color: rgb(122,  
100, 194) }
```

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](#).

Hey! You found this booklet  
interesting? Support Converting  
Colors with the new Membership  
Option!

The pro membership hides all ads, plus gives you  
double the colors in the color bucket, and more  
awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor