

Converting Colors

XYZ(22.8523, 18.6605, 78.0417)

Have a look what the booklet for
XYZ(22.8523, 18.6605, 78.0417)
contains.

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Color

**XYZ(22.8905, 18.7356,
78.0112)**

Conversions

Conversions Part 1

Format	Color
Hex	4870E7
RGB	72, 112, 231
RGB Percent	28%, 44%, 91%
CMY	0.7176, 0.5608, 0.0941
CMYK	0.69, 0.52, 0.00, 0.09
HSL	225°, 77%, 59%
HSV	225°, 69%, 91%
XYZ	22.8905, 18.7356, 78.0112
YIQ	113.6060, -62.0390, 28.5290

Conversions

Conversions Part 2

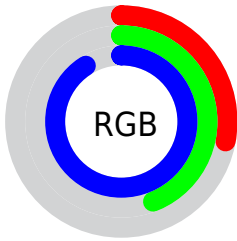
Format	Color
R _Y B	72, 104, 231
Decimal	4747495
CIE Lab	50.38, 24.98, -64.52
CIE LCh	50, 69.186, 291.162
Yxy	18.7356, 0.1913, 0.1566
Android (android.graphics.Color)	4282937575 (0xFF4870E7)
YUV	113.6060, 57.8752, -36.4885
Hunter-Lab	43.2846, 18.6492, -76.5582

Details

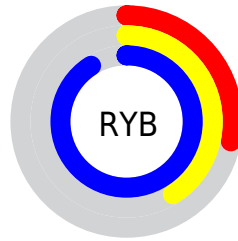
The XYZ color **22.8905, 18.7356, 78.0112** is a dark color, and the websafe version is hex **3366CC**. The color can be described as middle muted azure. A complement of this color would be **52.7583, 54.7232, 13.9146**, and the grayscale version is **15.7236, 16.5424, 18.0147**.

A 20% lighter version of the original color is **41.4637, 38.7328, 99.8985**, and **9.5303, 6.8366, 40.8617** is the 20% darker color. If you saturate the color by 10%, you get **19.7524, 14.5527, 77.3697**, and if you desaturate by 10%, it is **27.0432, 23.9855, 78.8061**.

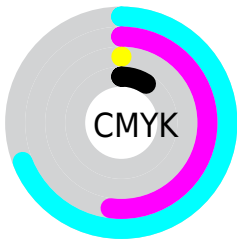
Distribution



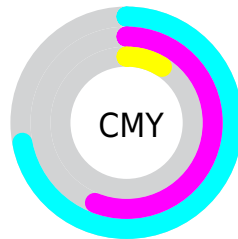
- Red (28%)
- Green (44%)
- Blue (91%)



- Red (28%)
- Yellow (41%)
- Blue (91%)



- Cyan (69%)
- Magenta (52%)
- Yellow (0%)
- Black (9%)



- Cyan (72%)
- Magenta (56%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 22.8905, 18.7356, 78.0112 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 22.8905, 18.7356, 78.0112 by changing the saturation by 10% instead.

■ 22.8905, 18.7356,
78.0112

■ 22.8905, 18.7356,
78.0112

259.7079,
244.9852, 507.7338

■ 14.6329, 11.4794,
57.5667

■ 47.6814, 41.2868,
132.3519

■ 8.6468, 6.3902,
41.0480

■ 64.9455, 57.3507,
167.0852

■ 4.5668, 3.0838,
28.0366

■ 85.9425, 77.1191,
207.4185

■ 2.0275, 1.1756,
18.1140

■ 111.0377,
100.9767, 253.7703

■ 0.6493, 0.0417,
10.8616

140.5965,
129.3077, 306.5592

■ 0.0000, 0.0000,
5.8608

174.9842,

■ 0.0000, 0.0000,

162.4965, 366.2037

2.6932

214.5662,
200.9275, 433.1224

■ 0.0000, 0.0000,
0.9400

■ 0.0000, 0.0000,
0.0000

■ 22.8905, 18.7356,
78.0112

■ 22.8905, 18.7356,
78.0112

■ 19.7524, 14.5527,
77.3697

■ 27.0432, 23.9855,
78.8061

■ 17.5285, 11.3535,
76.8694

■ 32.2923, 30.3730,
79.7624

■ 16.0806, 9.0325,
76.4977

■ 38.7135, 37.9639,
80.8891

■ 15.9421, 8.8060,
76.4613

■ 46.3750, 46.8186,
82.1944

■ 55.3396, 56.9929,
83.6858

■ 65.6656, 68.5393,
85.3702

■ 77.4079, 81.5074,
87.2545

■ 89.9487, 95.5992,
89.3135

■ 91.4239, 98.5496,
89.8052

Harmonies

Analogous

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



15.8957, 18.7356, 83.1475



22.8905, 18.7356, 78.0112



29.8849, 18.7356, 53.5103

Triad

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



22.8905, 18.7356, 78.0112



27.1999, 18.7356, 3.0216



7.8495, 18.7356, 15.2273

Complementary

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



22.8905, 18.7356, 78.0112



52.7583, 54.7232, 13.9146

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.



9.5213, 18.7356, 4.8825



22.8905, 18.7356, 78.0112



19.8670, 18.7356, 1.3315

Square

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



22.8905, 18.7356, 78.0112



32.7763, 18.7356, 9.7460



13.5391, 18.7356, 1.6933



8.2727, 18.7356, 36.8841

Rectangle

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



22.8905, 18.7356, 78.0112



33.0463, 18.7356, 34.8298



13.5391, 18.7356, 1.6933



8.1656, 18.7356, 10.6338

Sweetspot

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



22.8914, 18.7361, 78.0117



66.5384, 68.2597, 104.2762



40.3916, 62.1872, 57.7931



13.5623, 13.8407, 22.2067



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.



22.8914, 18.7361, 78.0117



23.2975, 16.2142, 96.5095



23.0619, 13.6637, 77.0236



13.8759, 14.4732, 18.2066



9.0207, 5.1034, 42.8928



0.7393, 0.5225, 3.1939

Inverse Universe

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



38.1979, 22.7950, 17.7160



44.2550, 23.8687, 13.4828



51.9694, 69.0767, 16.7267



14.5250, 14.4272, 15.6989



18.9467, 9.7129, 3.3484



1.4368, 0.7324, 0.4406

Previews

White Background



This preview shows how the XYZ color 22.8905, 18.7356, 78.0112 looks on a white 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

Black Background



This preview shows how the XYZ color 22.8905, 18.7356, 78.0112 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

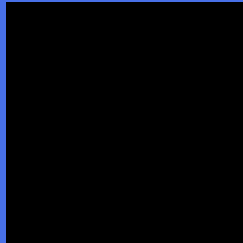
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 22.8905, 18.7356, 78.0112

Background



This preview shows how black text looks on a background with the XYZ color 22.8905, 18.7356, 78.0112.



This preview shows how white text looks on a background with the XYZ color 22.8905, 18.7356,

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

22.8905, 18.7356, 78.0112

Protanopia

22.0207, 18.7375, 80.2980

Deuteranopia

18.9698, 18.7232, 65.5649



Tritanopia

13.2092, 18.4857, 28.8585

Trichromacy



Original Color

22.8905, 18.7356, 78.0112

Protanomaly

22.2466, 18.7021, 79.5281

Deuteranomaly

19.8227, 18.3438, 70.2061

Tritanomaly

15.4975, 17.9820, 43.2115

Monochromacy



Original Color

22.8905, 18.7356, 78.0112

Achromatopsia

15.9940, 16.8269, 18.3245

Achromatomaly

17.1365, 16.8972, 34.2566

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.8905, 18.7356, 78.0112 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(72, 112, 231)` looks like.

```
.text, #text, p{  
    color:rgb(72, 112, 231)  
}
```

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(72, 112, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 112, 231) }
```

Border

The CSS property to change the border of an element to XYZ 22.8905, 18.7356, 78.0112 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(72, 112, 231) }
```


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

```
.border{ border-color:rgb(72, 112, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 112, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 112, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 112, 231);  
box-shadow:4px 4px 4px 4px rgb(72, 112,  
231) }
```

Background

The CSS property to change the background color of an element to XYZ 22.8905, 18.7356, 78.0112 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 112, 231) }
```

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

```
.background{ background-color: rgb(72, 112,  
231) }
```

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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