

Converting Colors

XYZ(8.4132, 10.0736, 44.7904)

Have a look what the booklet for
XYZ(8.4132, 10.0736, 44.7904)
contains.

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Color

**XYZ(12.7001, 12.2190,
44.8691)**

Conversions

Conversions Part 1

Format	Color
Hex	0063B4
RGB	0, 99, 180
RGB Percent	0%, 39%, 71%
CMY	0.9998, 0.6118, 0.2941
CMYK	1.00, 0.45, 0.00, 0.29
HSL	207°, 100%, 35%
HSV	207°, 100%, 71%
XYZ	12.7001, 12.2190, 44.8691
YIQ	78.6330, -85.0050, 4.2030

Conversions

Conversions Part 2

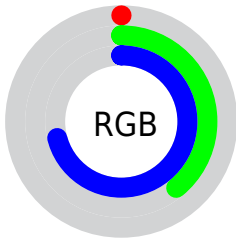
Format	Color
RYB	0, 64, 180
Decimal	25524
CIELab	41.56, 7.51, -49.59
CIELCh	42, 50.151, 278.608
Yxy	12.2190, 0.1820, 0.1751
Android (android.graphics.Color)	4278215604 (0xFF0063B4)
YUV	78.6330, 49.9739, -68.9611
Hunter-Lab	34.9557, 3.6802, -51.6356

Details

The XYZ color **12.7001, 12.2190, 44.8691** is a dark color, and the websafe version is hex **0066CC**. A complement of this color would be **21.7680, 15.5940, 1.8637**, and the grayscale version is **7.2834, 7.6627, 8.3447**.

A 20% lighter version of the original color is **30.3014, 29.8263, 83.5169**, and **5.0851, 4.1447, 20.2707** is the 20% darker color. If you saturate the color by 10%, you get **12.6985, 12.2158, 44.8689**, and if you desaturate by 10%, it is **13.7568, 13.9610, 45.1499**.

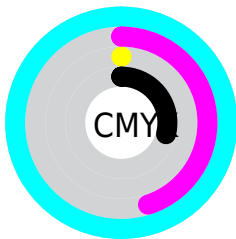
Distribution



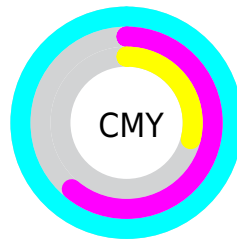
- Red (0%)
- Green (39%)
- Blue (71%)



- Red (0%)
- Yellow (25%)
- Blue (71%)



- Cyan (100%)
- Magenta (45%)
- Yellow (0%)
- Black (29%)



- Cyan (100%)
- Magenta (61%)
- Yellow (29%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7001, 12.2190, 44.8691 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 12.7001, 12.2190, 44.8691 by changing the saturation by 10% instead.

■ 12.7001, 12.2190,
44.8691

■ 12.7001, 12.2190,
44.8691

202.6633,
205.8498, 382.3878

■ 7.2979, 6.8930,
31.0121

■ 30.3699, 29.8933,
83.8403

■ 3.6971, 3.3953,
20.3495

■ 43.3682, 43.0105,
109.7916

■ 1.5322, 1.3414,
12.4628

■ 59.6292, 59.4935,
140.6115

■ 0.3476, 0.1729,
6.9333

■ 79.5184, 79.7267,
176.7185

■ 0.0000, 0.0000,
3.3426

■ 103.4010,
104.0945, 218.5310

■ 0.0000, 0.0000,
1.2721

■ 131.6425,

■ 0.0000, 0.0000,

132.9814, 266.4677

0.0388

164.6081,
166.7717, 320.9472

■ 0.0000, 0.0000,
0.0000

■ 12.7001, 12.2190,
44.8691

■ 12.7001, 12.2190,
44.8691

■ 12.6985, 12.2158,
44.8689

■ 13.7568, 13.9610,
45.1499

■ 15.1212, 15.9791,
45.4676

■ 16.8826, 18.3225,
45.8271

■ 19.0848, 21.0168,
46.2310

■ 21.7650, 24.0839,
46.6818

■ 24.9563, 27.5438,
47.1814

■ 28.6884, 31.4144,
47.7318

■ 32.9889, 35.7126,
48.3348

■ 37.8830, 40.4538,
48.9920

Harmonies

Analogous

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



9.2298, 12.2190, 42.3057



12.7001, 12.2190, 44.8691



16.5858, 12.2190, 36.1078

Triad

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



12.7001, 12.2190, 44.8691



18.0320, 12.2190, 4.2704



6.2132, 12.2190, 7.2205

Complementary

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



12.7001, 12.2190, 44.8691



21.7680, 15.5940, 1.8637

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.



7.7503, 12.2190, 2.9480



12.7001, 12.2190, 44.8691



14.3765, 12.2190, 1.9750

Square

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



12.7001, 12.2190, 44.8691



20.0612, 12.2190, 10.5081



10.5913, 12.2190, 1.6668



5.9496, 12.2190, 16.5574

Rectangle

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



12.7001, 12.2190, 44.8691



18.7223, 12.2190, 26.8181



10.5913, 12.2190, 1.6668



6.5798, 12.2190, 5.3213

Sweetspot

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



12.7006, 12.2193, 44.8694



51.6306, 56.5662, 86.4918



17.8078, 33.2373, 13.2657



10.5310, 11.5806, 18.6025



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



12.7006, 12.2193, 44.8694



22.7890, 21.6777, 81.2777



8.3368, 3.4917, 43.4148



8.4163, 8.9789, 10.7958



8.9306, 8.6616, 31.3382



0.3383, 0.3870, 1.0051

Inverse Universe

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



21.0751, 10.6050, 12.7407



38.0920, 19.1793, 22.4660



33.3861, 38.8301, 5.7364



8.6853, 8.5809, 9.8414



14.7424, 7.4145, 9.0695



0.4928, 0.2449, 0.4376

Previews

White Background



This preview shows how the XYZ color 12.7001, 12.2190, 44.8691 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 12.7001, 12.2190, 44.8691 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

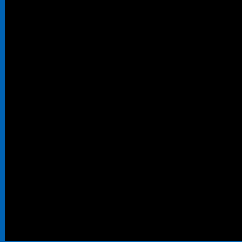
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7001, 12.2190, 44.8691

Background



This preview shows how black text looks on a background with the XYZ color 12.7001, 12.2190, 44.8691.



This preview shows how white text looks on a background with the XYZ color 12.7001, 12.2190,

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

12.7001, 12.2190, 44.8691

Protanopia

13.7323, 12.2488, 42.7148

Deuteranopia

12.3936, 12.2489, 42.7854



Tritanopia

8.6210, 12.1982, 18.4231

Trichromacy



Original Color

12.7001, 12.2190, 44.8691

Protanomaly

12.9180, 11.9521, 43.2211

Deuteranomaly

12.4930, 12.2887, 43.3085

Tritanomaly

9.7118, 11.9672, 26.2241

Monochromacy



Original Color

12.7001, 12.2190, 44.8691

Achromatopsia

7.4317, 7.8187, 8.5146

Achromatomaly

7.7956, 8.5946, 17.7711

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7001, 12.2190, 44.8691 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(0, 99, 180)` looks like.

```
.text, #text, p{  
    color:rgb(0, 99, 180)  
}
```

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(0, 99, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 99, 180) }
```

Border

The CSS property to change the border of an element to XYZ 12.7001, 12.2190, 44.8691 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(0, 99, 180) }
```


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

```
.border{ border-color:rgb(0, 99, 180) }
```

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

Here you see how a box with a 4 pixel rgb(0, 99, 180) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 99, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 99, 180);  
box-shadow:4px 4px 4px 4px rgb(0, 99, 180)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.7001, 12.2190, 44.8691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 99, 180) }
```

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

```
.background{ background-color: rgb(0, 99,  
180) }
```

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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