

Converting Colors

XYZ(12.7932, 14.6103, 38.1021)

Have a look what the booklet for
XYZ(12.7932, 14.6103, 38.1021)
contains.

XYZ(12.7881, 14.5634, 38.2134)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.7881, 14.5634,
38.2134)**

Conversions

Conversions Part 1

Format	Color
Hex	0071A6
RGB	0, 113, 166
RGB Percent	0%, 44%, 65%
CMY	0.9999, 0.5569, 0.3490
CMYK	1.00, 0.32, 0.00, 0.35
HSL	199°, 100%, 33%
HSV	199°, 100%, 65%
XYZ	12.7881, 14.5634, 38.2134
YIQ	85.2550, -84.3610, -7.4730

Conversions

Conversions Part 2

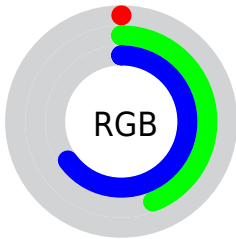
Format	Color
RYB	0, 67, 166
Decimal	29094
CIELab	45.03, -6.85, -35.85
CIELCh	45, 36.499, 259.177
Yxy	14.5634, 0.1950, 0.2221
Android (android.graphics.Color)	4278219174 (0xFF0071A6)
YUV	85.2550, 39.8073, -74.7686
Hunter-Lab	38.1620, -6.9682, -32.6564

Details

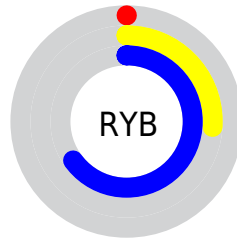
The XYZ color **12.7881, 14.5634, 38.2134** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **17.0009, 10.6565, 1.1619**, and the grayscale version is **8.6222, 9.0712, 9.8785**.

A 20% lighter version of the original color is **30.5308, 34.2054, 73.3998**, and **4.9276, 4.9955, 16.6241** is the 20% darker color. If you saturate the color by 10%, you get **12.7870, 14.5612, 38.2133**, and if you desaturate by 10%, it is **13.6217, 15.8971, 38.4272**.

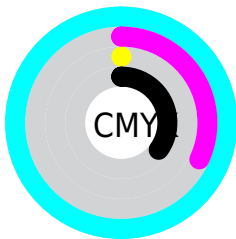
Distribution



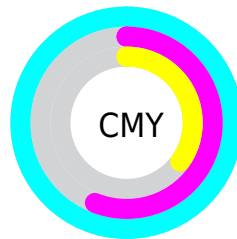
- Red (0%)
- Green (44%)
- Blue (65%)



- Red (0%)
- Yellow (26%)
- Blue (65%)



- Cyan (100%)
- Magenta (32%)
- Yellow (0%)
- Black (35%)



- Cyan (100%)
- Magenta (56%)
- Yellow (35%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7881, 14.5634, 38.2134 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 12.7881, 14.5634, 38.2134 by changing the saturation by 10% instead.

■ 12.7881, 14.5634,
38.2134

■ 12.7881, 14.5634,
38.2134

203.2203,
220.7082, 353.8601

■ 7.3588, 8.5135,
25.8452

■ 30.5271, 34.0854,
73.6422

■ 3.7358, 4.4253,
16.4832

■ 43.5676, 48.3264,
97.5398

■ 1.5538, 1.9142,
9.7087

■ 59.8757, 66.0665,
126.1178

■ 0.3620, 0.5569,
5.1031

■ 79.8170, 87.6901,
159.7945

■ 0.0000, 0.0000,
2.2481

■ 103.7568,
113.5817, 198.9885

■ 0.0000, 0.0000,
0.7019

■ 132.0603,

■ 0.0000, 0.0000,

144.1257, 244.1185

0.0000

165.0930,
179.7063, 295.6028

■ 12.7881, 14.5634,
38.2134

■ 12.7881, 14.5634,
38.2134

■ 12.7870, 14.5612,
38.2133

■ 13.6217, 15.8971,
38.4272

■ 14.6757, 17.3964,
38.6611

■ 16.0279, 19.1024,
38.9191

■ 17.7127, 21.0336,
39.2030

■ 19.7595, 23.2060,
39.5145

■ 22.1943, 25.6338,
39.8547

■ 25.0404, 28.3297,
40.2251

■ 28.3195, 31.3056,
40.6267

■ 32.0514, 34.5725,
41.0606

Harmonies

Analogous

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



10.4068, 14.5634, 31.9082



12.7881, 14.5634, 38.2134



15.8223, 14.5634, 37.1060

Triad

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



12.7881, 14.5634, 38.2134



20.0283, 14.5634, 11.0309



9.9238, 14.5634, 7.3311

Complementary

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



12.7881, 14.5634, 38.2134



17.0009, 10.6565, 1.1619

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.



12.0344, 14.5634, 4.8202



12.7881, 14.5634, 38.2134



17.9606, 14.5634, 6.3611

Square

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



12.7881, 14.5634, 38.2134



20.3075, 14.5634, 19.1618



14.9524, 14.5634, 4.5444



8.9191, 14.5634, 12.9560

Rectangle

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



12.7881, 14.5634, 38.2134



17.8101, 14.5634, 32.3964



14.9524, 14.5634, 4.5444



10.5120, 14.5634, 6.1968

Sweetspot

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



12.7887, 14.5639, 38.2138



45.1259, 51.1187, 72.9638



14.2700, 27.5262, 7.8800



9.6127, 10.9844, 16.2657



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656

Same Dimension

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



12.7887, 14.5639, 38.2138



23.0086, 26.0303, 69.2869



7.3595, 3.7055, 36.4041



7.5425, 8.1220, 9.5885



9.9590, 11.3782, 29.6468



0.2854, 0.3629, 0.7357

Inverse Universe

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



18.7071, 9.3001, 16.4322



33.8494, 16.8368, 29.2892



24.4704, 25.5956, 3.6517



7.7384, 7.6252, 8.9398



14.5275, 7.2197, 12.8550



0.3752, 0.1843, 0.4272

Previews

White Background



This preview shows how the XYZ color 12.7881, 14.5634, 38.2134 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 12.7881, 14.5634, 38.2134 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

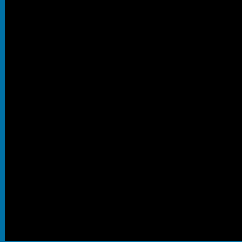
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7881, 14.5634, 38.2134

Background



This preview shows how black text looks on a background with the XYZ color 12.7881, 14.5634, 38.2134.



This preview shows how white text looks on a background with the XYZ color 12.7881, 14.5634,

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

12.7881, 14.5634, 38.2134

Protanopia

15.2328, 14.4785, 34.7927

Deuteranopia

14.9696, 14.5517, 39.0656



Tritanopia

10.3092, 14.4892, 22.3320

Trichromacy



Original Color

12.7881, 14.5634, 38.2134

Protanomaly

13.4102, 13.9648, 36.1711

Deuteranomaly

13.5704, 14.3081, 38.6057

Tritanomaly

11.0531, 14.4139, 27.3989

Monochromacy



Original Color

12.7881, 14.5634, 38.2134

Achromatopsia

8.6345, 9.0842, 9.8927

Achromatomaly

8.6508, 10.1836, 17.4293

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7881, 14.5634, 38.2134 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, 113, 166)` looks like.

```
.text, #text, p{  
    color:rgb(0, 113, 166)  
}
```

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, 113, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 113, 166) }
```

Border

The CSS property to change the border of an element to XYZ 12.7881, 14.5634, 38.2134 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, 113, 166) }
```


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

```
.border{ border-color:rgb(0, 113, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 113, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 113, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 113, 166);  
box-shadow:4px 4px 4px 4px rgb(0, 113,  
166) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7881, 14.5634, 38.2134 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 113, 166) }
```

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

```
.background{ background-color: rgb(0, 113,  
166) }
```

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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