

Converting Colors

XYZ(13.1777, 16.4671, 34.8768)

Have a look what the booklet for
XYZ(13.1777, 16.4671, 34.8768)
contains.

XYZ(13.1311, 16.3877, 34.8188)	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(13.1311, 16.3877,
34.8188)**

Conversions

Conversions Part 1

Format	Color
Hex	007A9E
RGB	0, 122, 158
RGB Percent	0%, 48%, 62%
CMY	0.9999, 0.5216, 0.3804
CMYK	1.00, 0.23, 0.00, 0.38
HSL	194°, 100%, 31%
HSV	194°, 100%, 62%
XYZ	13.1311, 16.3877, 34.8188
YIQ	89.6260, -84.2680, -14.6680

Conversions

Conversions Part 2

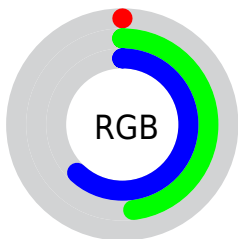
Format	Color
RYB	0, 69, 158
Decimal	31390
CIELab	47.48, -15.14, -27.32
CIELCh	47, 31.234, 241.009
Yxy	16.3877, 0.2041, 0.2547
Android (android.graphics.Color)	4278221470 (0xFF007A9E)
YUV	89.6260, 33.7084, -78.6020
Hunter-Lab	40.4817, -12.9428, -22.6588

Details

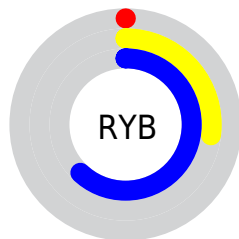
The XYZ color **13.1311, 16.3877, 34.8188** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **14.7325, 8.5326, 0.8712**, and the grayscale version is **9.5772, 10.0760, 10.9727**.

A 20% lighter version of the original color is **31.0768, 37.1024, 68.4744**, and **4.9841, 5.8057, 14.4936** is the 20% darker color. If you saturate the color by 10%, you get **13.1306, 16.3866, 34.8189**, and if you desaturate by 10%, it is **13.7924, 17.3974, 34.9792**.

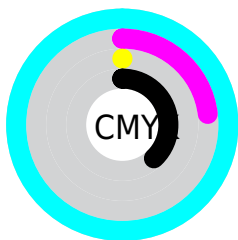
Distribution



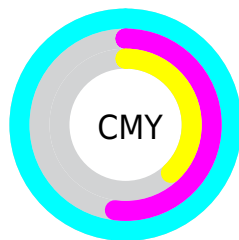
- Red (0%)
- Green (48%)
- Blue (62%)



- Red (0%)
- Yellow (27%)
- Blue (62%)



- Cyan (100%)
- Magenta (23%)
- Yellow (0%)
- Black (38%)



- Cyan (100%)
- Magenta (52%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.1311, 16.3877, 34.8188 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 13.1311, 16.3877, 34.8188 by changing the saturation by 10% instead.

■ 13.1311, 16.3877,
34.8188

■ 13.1311, 16.3877,
34.8188

■ 205.3768,
231.6187, 338.6477

■ 7.5965, 9.7989,
23.2409

■ 31.1384, 37.2700,
68.3533

■ 3.8875, 5.2658,
14.5645

■ 44.3419, 52.3322,
91.1471

■ 1.6387, 2.4041,
8.3711

■ 60.8323, 70.9878,
118.5165

■ 0.4174, 0.8280,
4.2422

■ 80.9751, 93.6210,
150.8801

■ 0.0000, 0.0000,
1.7591

■ 105.1356,
120.6164, 188.6565

■ 0.0000, 0.0000,
0.4008

■ 133.6791,

■ 0.0000, 0.0000,

152.3582, 232.2642

0.0000

166.9711,
189.2308, 282.1218

■ 13.1311, 16.3877,
34.8188

■ 13.1311, 16.3877,
34.8188

■ 13.1306, 16.3866,
34.8189

■ 13.7924, 17.3974,
34.9792

■ 14.6327, 18.5237,
35.1523

■ 15.7243, 19.8044,
35.3419

■ 17.0972, 21.2551,
35.5496

■ 18.7770, 22.8895,
35.7765

■ 20.7865, 24.7193,
36.0238

■ 23.1460, 26.7554,
36.2924

■ 25.8744, 29.0076,
36.5834

■ 28.9888, 31.4851,
36.8974

Harmonies

Analogous

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



11.4369, 16.3877, 26.9272



13.1311, 16.3877, 34.8188



15.6701, 16.3877, 37.8904

Triad

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



13.1311, 16.3877, 34.8188



21.5412, 16.3877, 17.5758



12.9865, 16.3877, 7.6916

Complementary

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



13.1311, 16.3877, 34.8188



14.7325, 8.5326, 0.8712

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.



15.4823, 16.3877, 6.5130



13.1311, 16.3877, 34.8188



20.6097, 16.3877, 11.0737

Square

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



13.1311, 16.3877, 34.8188



20.7231, 16.3877, 26.3189



18.3070, 16.3877, 7.5391



11.3606, 16.3877, 11.4162

Rectangle

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



13.1311, 16.3877, 34.8188



17.5677, 16.3877, 36.2411



18.3070, 16.3877, 7.5391



13.7409, 16.3877, 7.0443

Sweetspot

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



13.1317, 16.3883, 34.8192



41.7556, 48.3532, 65.8758



12.5197, 24.5711, 5.6155



9.0158, 10.5617, 14.8071



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



13.1317, 16.3883, 34.8192



23.6886, 29.4451, 63.1784



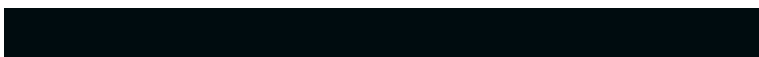
7.1022, 4.3293, 32.8094



6.6936, 7.2529, 8.4538



10.5467, 13.1849, 27.8963



0.2176, 0.2938, 0.5085

Inverse Universe

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



17.6139, 8.6749, 19.1589



31.9064, 15.7206, 34.3730



20.0329, 19.1334, 2.6380



6.8394, 6.7287, 8.0056



14.1217, 6.9532, 15.4236



0.2671, 0.1302, 0.3529

Previews

White Background



This preview shows how the XYZ color 13.1311, 16.3877, 34.8188 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 13.1311, 16.3877, 34.8188 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 13.1311, 16.3877, 34.8188

Background



This preview shows how black text looks on a background with the XYZ color 13.1311, 16.3877, 34.8188.

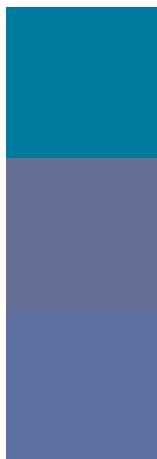


This preview shows how white text looks on a background with the XYZ color 13.1311, 16.3877,

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

13.1311, 16.3877, 34.8188

Protanopia

16.5887, 16.3636, 30.7179

Deuteranopia

16.7336, 16.3218, 35.9867



Tritanopia

11.6367, 16.3885, 25.1042

Trichromacy



Original Color

13.1311, 16.3877, 34.8188

Protanomaly

13.9782, 15.6523, 31.9902

Deuteranomaly

14.3394, 15.7602, 35.5440

Tritanomaly

12.1656, 16.3985, 28.5106

Monochromacy



Original Color

13.1311, 16.3877, 34.8188

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

9.5332, 11.6104, 17.9582

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.1311, 16.3877, 34.8188 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, 122, 158)` looks like.

```
.text, #text, p{  
    color:rgb(0, 122, 158)  
}
```

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, 122, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 122, 158) }
```

Border

The CSS property to change the border of an element to XYZ 13.1311, 16.3877, 34.8188 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, 122, 158) }
```


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

```
.border{ border-color:rgb(0, 122, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 122, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 122, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 122, 158);  
box-shadow:4px 4px 4px 4px rgb(0, 122,  
158) }
```

Background

The CSS property to change the background color of an element to XYZ 13.1311, 16.3877, 34.8188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 122, 158) }
```

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

```
.background{ background-color: rgb(0, 122,  
158) }
```

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