

Converting Colors

XYZ(10.8463, 17.1215, 44.0713)

Have a look what the booklet for
XYZ(10.8463, 17.1215, 44.0713)
contains.

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Color

**XYZ(16.3233, 19.9494,
44.5853)**

Conversions

Conversions Part 1

Format	Color
Hex	0085B1
RGB	0, 133, 177
RGB Percent	0%, 52%, 69%
CMY	0.9999, 0.4784, 0.3059
CMYK	1.00, 0.25, 0.00, 0.31
HSL	195°, 100%, 35%
HSV	195°, 100%, 69%
XYZ	16.3233, 19.9494, 44.5853
YIQ	98.2490, -93.3920, -14.5120

Conversions

Conversions Part 2

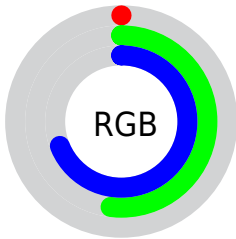
Format	Color
RYB	0, 76, 177
Decimal	34225
CIELab	51.78, -14.23, -31.65
CIELCh	52, 34.706, 245.793
Yxy	19.9494, 0.2019, 0.2467
Android (android.graphics.Color)	4278224305 (0xFF0085B1)
YUV	98.2490, 38.8242, -86.1644
Hunter-Lab	44.6648, -12.9282, -27.9192

Details

The XYZ color **16.3233, 19.9494, 44.5853** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **19.0335, 11.1506, 1.1499**, and the grayscale version is **11.5967, 12.2006, 13.2865**.

A 20% lighter version of the original color is **36.6805, 43.2763, 83.5107**, and **6.7313, 7.6417, 20.1890** is the 20% darker color. If you saturate the color by 10%, you get **16.3227, 19.9480, 44.5855**, and if you desaturate by 10%, it is **17.1833, 21.3063, 44.8023**.

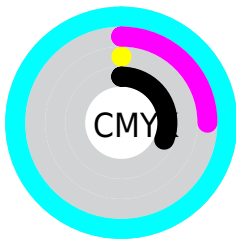
Distribution



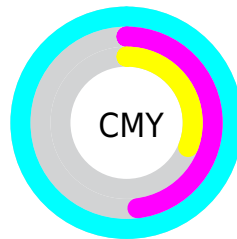
- Red (0%)
- Green (52%)
- Blue (69%)



- Red (0%)
- Yellow (30%)
- Blue (69%)



- Cyan (100%)
- Magenta (25%)
- Yellow (0%)
- Black (31%)



- Cyan (100%)
- Magenta (48%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.3233, 19.9494, 44.5853 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 16.3233, 19.9494, 44.5853 by changing the saturation by 10% instead.

■ 16.3233, 19.9494,
44.5853

■ 16.3233, 19.9494,
44.5853

224.4750,
251.6411, 381.2024

■ 9.8455, 12.3583,
30.7903

■ 36.7115, 43.3323,
83.4096

■ 5.3581, 6.9882,
20.1821

■ 51.3526, 59.8929,
109.2760

■ 2.4958, 3.4547,
12.3421

■ 69.4456, 80.2121,
140.0034

■ 0.8931, 1.3735,
6.8518

■ 91.3557, 104.6743,
176.0101

■ 0.0000, 0.1971,
3.2925

■ 117.4483,
133.6639, 217.7149

■ 0.0000, 0.0000,
1.2459

■ 148.0889,

■ 0.0000, 0.0000,

167.5653, 265.5362

0.0168

183.6427,
206.7629, 319.8925

■ 0.0000, 0.0000,
0.0000

■ 16.3233, 19.9494,
44.5853

■ 16.3233, 19.9494,
44.5853

■ 16.3227, 19.9480,
44.5855

■ 17.1833, 21.3063,
44.8023

■ 18.2873, 22.8266,
45.0376

■ 19.7211, 24.5553,
45.2957

■ 21.5248, 26.5135,
45.5786

■ 23.7327, 28.7192,
45.8879

■ 26.3749, 31.1884,
46.2253

■ 29.4785, 33.9356,
46.5920

■ 33.0683, 36.9739,
46.9892

■ 37.1675, 40.3156,
47.4182

Harmonies

Analogous

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



13.9913, 19.9494, 35.1199



16.3233, 19.9494, 44.5853



19.6516, 19.9494, 47.2245

Triad

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



16.3233, 19.9494, 44.5853



26.5101, 19.9494, 19.8261



15.2774, 19.9494, 9.5016

Complementary

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



16.3233, 19.9494, 44.5853



19.0335, 11.1506, 1.1499

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.



18.2874, 19.9494, 7.5962



16.3233, 19.9494, 44.5853



24.9876, 19.9494, 12.2551

Square

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



16.3233, 19.9494, 44.5853



25.8164, 19.9494, 30.6623



21.8692, 19.9494, 8.4199



13.4417, 19.9494, 14.7133

Rectangle

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



16.3233, 19.9494, 44.5853



22.0562, 19.9494, 44.2207



21.8692, 19.9494, 8.4199



16.1704, 19.9494, 8.5408

Sweetspot

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



16.3240, 19.9501, 44.5858



52.4795, 60.5043, 83.4078



16.1285, 31.6071, 7.3781



10.8600, 12.6632, 18.0162



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



16.3240, 19.9501, 44.5858



29.0495, 35.3586, 79.7891



8.9616, 5.2252, 42.1317



8.5602, 9.2666, 10.8438



11.8761, 14.5525, 32.3200



0.4165, 0.5435, 1.0312

Inverse Universe

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



22.3657, 11.0413, 23.1433



39.9618, 19.7359, 40.9557



26.0889, 25.2615, 3.5017



8.7579, 8.6099, 10.2238



16.2291, 8.0092, 16.8985



0.5323, 0.2607, 0.6455

Previews

White Background



This preview shows how the XYZ color 16.3233, 19.9494, 44.5853 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 16.3233, 19.9494, 44.5853 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

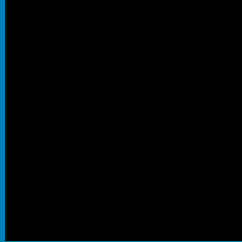
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 16.3233, 19.9494, 44.5853

Background



This preview shows how black text looks on a background with the XYZ color 16.3233, 19.9494, 44.5853.

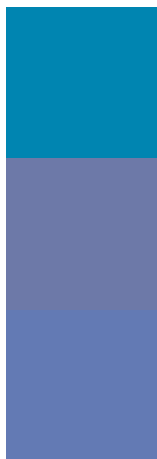


This preview shows how white text looks on a background with the XYZ color 16.3233, 19.9494,

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

16.3233, 19.9494, 44.5853

Protanopia

20.2119, 19.7531, 39.7932

Deuteranopia

20.3433, 19.8670, 45.9425



Tritanopia

14.2121, 19.9979, 30.7147

Trichromacy



Original Color

16.3233, 19.9494, 44.5853

Protanomaly

17.1385, 18.8727, 41.2676

Deuteranomaly

17.6474, 19.2331, 45.4301

Tritanomaly

14.9757, 20.0769, 35.4337

Monochromacy



Original Color

16.3233, 19.9494, 44.5853

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.5018, 13.9253, 22.1603

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.3233, 19.9494, 44.5853 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, 133, 177)` looks like.

```
.text, #text, p{  
    color:rgb(0, 133, 177)  
}
```

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, 133, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 133, 177) }
```

Border

The CSS property to change the border of an element to XYZ 16.3233, 19.9494, 44.5853 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, 133, 177) }
```


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

```
.border{ border-color:rgb(0, 133, 177) }
```

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

Here you see how a box with a 4 pixel rgb(0, 133, 177) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 133, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 133, 177);  
box-shadow:4px 4px 4px 4px rgb(0, 133,  
177) }
```

Background

The CSS property to change the background color of an element to XYZ 16.3233, 19.9494, 44.5853 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 133, 177) }
```

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

```
.background{ background-color: rgb(0, 133,  
177) }
```

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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