

Converting Colors

XYZ(4.9630, 14.8466, 44.6037)

Have a look what the booklet for
XYZ(4.9630, 14.8466, 44.6037)
contains.

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Color

**XYZ(16.9815, 21.1057,
45.2983)**

Conversions

Conversions Part 1

Format	Color
Hex	0089B2
RGB	0, 137, 178
RGB Percent	0%, 54%, 70%
CMY	0.9999, 0.4627, 0.3020
CMYK	1.00, 0.23, 0.00, 0.30
HSL	194°, 100%, 35%
HSV	194°, 100%, 70%
XYZ	16.9815, 21.1057, 45.2983
YIQ	100.7110, -94.8130, -16.2930

Conversions

Conversions Part 2

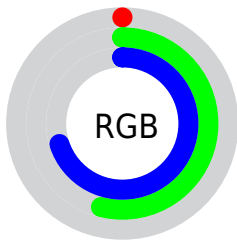
Format	Color
RYB	0, 77, 178
Decimal	35250
CIELab	53.06, -16.08, -30.23
CIELCh	53, 34.239, 241.983
Yxy	21.1057, 0.2037, 0.2531
Android (android.graphics.Color)	4278225330 (0xFF0089B2)
YUV	100.7110, 38.1035, -88.3235
Hunter-Lab	45.9409, -14.4163, -26.3020

Details

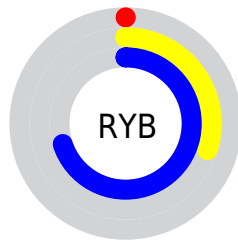
The XYZ color **16.9815, 21.1057, 45.2983** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **19.1543, 11.0529, 1.1247**, and the grayscale version is **12.2202, 12.8566, 14.0008**.

A 20% lighter version of the original color is **37.7789, 45.0946, 84.5549**, and **7.1099, 8.2971, 20.6288** is the 20% darker color. If you saturate the color by 10%, you get **16.9810, 21.1044, 45.2985**, and if you desaturate by 10%, it is **17.8222, 22.4213, 45.5084**.

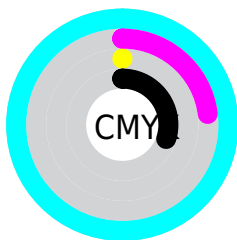
Distribution



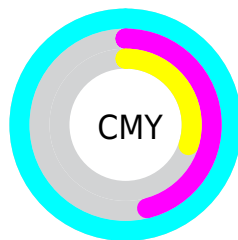
- Red (0%)
- Green (54%)
- Blue (70%)



- Red (0%)
- Yellow (30%)
- Blue (70%)



- Cyan (100%)
- Magenta (23%)
- Yellow (0%)
- Black (30%)



- Cyan (100%)
- Magenta (46%)
- Yellow (30%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.9815, 21.1057, 45.2983 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 16.9815, 21.1057, 45.2983 by changing the saturation by 10% instead.

■ 16.9815, 21.1057,
45.2983

■ 16.9815, 21.1057,
45.2983

■ 228.2241,
257.8397, 384.1756

■ 10.3165, 13.2013,
31.3478

■ 37.8378, 45.2634,
84.4910

■ 5.6732, 7.5673,
20.6031

■ 52.7599, 62.2854,
110.5704

■ 2.6862, 3.8193,
12.6458

■ 71.1650, 83.1155,
141.5297

■ 0.9901, 1.5730,
7.0573

■ 93.4185, 108.1380,
177.7876

■ 0.0000, 0.3393,
3.4189

■ 119.8859,
137.7372, 219.7626

■ 0.0000, 0.0000,
1.3123

■ 150.9323,

■ 0.0000, 0.0000,

172.2977, 267.8733

0.0719

186.9233,
212.2037, 322.5381

■ 0.0000, 0.0000,
0.0000

■ 16.9815, 21.1057,
45.2983

■ 16.9815, 21.1057,
45.2983

■ 16.9810, 21.1044,
45.2985

■ 17.8222, 22.4213,
45.5084

■ 18.9070, 23.8957,
45.7358

■ 20.3223, 25.5740,
45.9851

■ 22.1087, 27.4776,
46.2584

■ 24.3010, 29.6246,
46.5573

■ 26.9296, 32.0313,
46.8833

■ 30.0220, 34.7119,
47.2377

■ 33.6033, 37.6799,
47.6218

■ 37.6969, 40.9476,
48.0368

Harmonies

Analogous

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



14.7435, 21.1057, 35.1603



16.9815, 21.1057, 45.2983



20.3008, 21.1057, 49.0298

Triad

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



16.9815, 21.1057, 45.2983



27.8034, 21.1057, 22.3014



16.6130, 21.1057, 9.9339

Complementary

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



16.9815, 21.1057, 45.2983



19.1543, 11.0529, 1.1247

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.



19.8218, 21.1057, 8.3171



16.9815, 21.1057, 45.2983



26.5227, 21.1057, 13.9989

Square

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



16.9815, 21.1057, 45.2983



26.8122, 21.1057, 33.6064



23.4905, 21.1057, 9.5469



14.5493, 21.1057, 14.8700

Rectangle

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



16.9815, 21.1057, 45.2983



22.7644, 21.1057, 46.6989



23.4905, 21.1057, 9.5469



17.5793, 21.1057, 9.0643

Sweetspot

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



16.9822, 21.1064, 45.2988



54.1206, 62.6745, 85.6261



16.2803, 31.9851, 7.1996



11.4534, 13.4253, 18.9099



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.



16.9822, 21.1064, 45.2988



30.6114, 37.9066, 82.0845



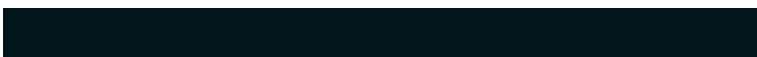
9.1964, 5.5347, 42.7035



8.5734, 9.2930, 10.8482



12.1993, 15.1989, 32.4277



0.4245, 0.5596, 1.0339

Inverse Universe

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



22.8761, 11.2719, 24.6376



41.3906, 20.4024, 44.1892



26.0243, 24.7929, 3.4147



8.7646, 8.6126, 10.2589



16.3923, 8.0745, 17.7576



0.5363, 0.2623, 0.6668

Previews

White Background



This preview shows how the XYZ color 16.9815, 21.1057, 45.2983 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 16.9815, 21.1057, 45.2983 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

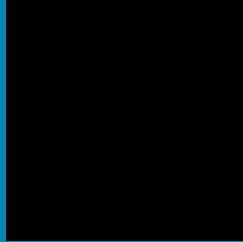
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 16.9815, 21.1057, 45.2983

Background



This preview shows how black text looks on a background with the XYZ color 16.9815, 21.1057, 45.2983.

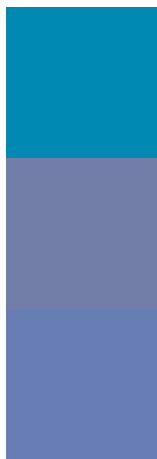


This preview shows how white text looks on a background with the XYZ color 16.9815, 21.1057,

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

16.9815, 21.1057, 45.2983

Protanopia

21.3409, 21.0718, 39.9883

Deuteranopia

21.4998, 21.0067, 46.6376



Tritanopia

14.9640, 20.9905, 32.5410

Trichromacy



Original Color

16.9815, 21.1057, 45.2983

Protanomaly

18.0443, 20.0955, 41.9575

Deuteranomaly

18.4032, 20.1891, 46.1069

Tritanomaly

15.6656, 21.0384, 36.9534

Monochromacy



Original Color

16.9815, 21.1057, 45.2983

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.0941, 14.7096, 22.9707

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.9815, 21.1057, 45.2983 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, 137, 178)` looks like.

```
.text, #text, p{  
    color:rgb(0, 137, 178)  
}
```

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, 137, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 137, 178) }
```

Border

The CSS property to change the border of an element to XYZ 16.9815, 21.1057, 45.2983 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, 137, 178) }
```


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

```
.border{ border-color:rgb(0, 137, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 137, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 137, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 137, 178);  
box-shadow:4px 4px 4px 4px rgb(0, 137,  
178) }
```

Background

The CSS property to change the background color of an element to XYZ 16.9815, 21.1057, 45.2983 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 137, 178) }
```

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

```
.background{ background-color: rgb(0, 137,  
178) }
```

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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