

Converting Colors

XYZ(8.3156, 20.1443, 15.1968)

Have a look what the booklet for
XYZ(8.3156, 20.1443, 15.1968)
contains.

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Color

**XYZ(13.1585, 22.7135,
15.4950)**

Conversions

Conversions Part 1

Format	Color
Hex	009663
RGB	0, 150, 99
RGB Percent	0%, 59%, 39%
CMY	0.9999, 0.4118, 0.6118
CMYK	1.00, 0.00, 0.34, 0.41
HSL	160°, 100%, 29%
HSV	160°, 100%, 59%
XYZ	13.1585, 22.7135, 15.4950
YIQ	99.3360, -73.0290, -47.6610

Conversions

Conversions Part 2

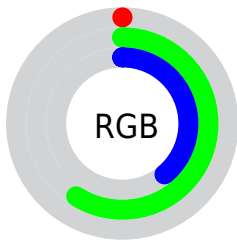
Format	Color
RYB	0, 90, 150
Decimal	38499
CIELab	54.78, -46.41, 17.61
CIElCh	55, 49.640, 159.221
Yxy	22.7135, 0.2562, 0.4422
Android (android.graphics.Color)	4278228579 (0xFF009663)
YUV	99.3360, -0.1656, -87.1177
Hunter-Lab	47.6587, -34.1191, 14.0845

Details

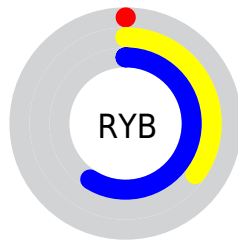
The XYZ color **13.1585, 22.7135, 15.4950** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.1761, 6.7237, 3.7371**, and the grayscale version is **11.9595, 12.5823, 13.7021**.

A 20% lighter version of the original color is **31.1741, 47.8431, 36.4458**, and **4.9875, 8.9833, 4.7199** is the 20% darker color. If you saturate the color by 10%, you get **13.1587, 22.7142, 15.4943**, and if you desaturate by 10%, it is **13.6078, 22.9167, 16.8301**.

Distribution



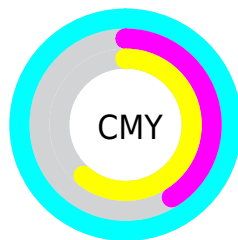
- Red (0%)
- Green (59%)
- Blue (39%)



- Red (0%)
- Yellow (35%)
- Blue (59%)



- Cyan (100%)
- Magenta (0%)
- Yellow (34%)
- Black (41%)



- Cyan (100%)
- Magenta (41%)
- Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.1585, 22.7135, 15.4950 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 13.1585, 22.7135, 15.4950 by changing the saturation by 10% instead.

■ 13.1585, 22.7135,
15.4950

■ 13.1585, 22.7135,
15.4950

205.5481,
266.2500, 238.0862

■ 7.6155, 14.3821,
9.0171

■ 31.1871, 47.9225,
36.4738

■ 3.8997, 8.3869,
4.6553

■ 44.4035, 65.5688,
51.8116

■ 1.6455, 4.3435,
1.9913

■ 60.9084, 87.0890,
70.9399

■ 0.4218, 1.8675,
0.5499

■ 81.0672, 112.8673,
94.2771

■ 0.0000, 0.5287,
0.0000

■ 105.2452,
143.2881, 122.2418

■ 0.0000, 0.0000,
0.0000

■ 133.8078,

178.7359, 155.2525

167.1203,
219.5951, 193.7278

■ 13.1585, 22.7135,
15.4950

■ 13.1585, 22.7135,
15.4950

■ 13.1587, 22.7142,
15.4943

■ 13.6078, 22.9167,
16.8301

■ 14.2138, 23.1982,
18.2538

■ 15.0441, 23.5935,
19.7713

■ 16.1252, 24.1162,
21.3852

■ 17.4797, 24.7779,
23.0978

■ 19.1275, 25.5890,
24.9114

■ 21.0867, 26.5586,
26.8280

■ 23.3740, 27.6954,
28.8498

■ 26.0047, 29.0071,
30.9787

Harmonies

Analogous

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



15.5870, 22.7135, 7.9441



13.1585, 22.7135, 15.4950



12.7676, 22.7135, 29.8898

Triad

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



13.1585, 22.7135, 15.4950



23.3217, 22.7135, 68.0853



30.8250, 22.7135, 10.1350

Complementary

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



13.1585, 22.7135, 15.4950



13.1761, 6.7237, 3.7371

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.



33.7508, 22.7135, 20.2030



13.1585, 22.7135, 15.4950



28.9612, 22.7135, 56.2552

Square

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



13.1585, 22.7135, 15.4950



18.0616, 22.7135, 65.0420



33.0164, 22.7135, 37.0575



25.5470, 22.7135, 5.8847

Rectangle

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



13.1585, 22.7135, 15.4950



13.6355, 22.7135, 42.5849



33.0164, 22.7135, 37.0575



32.1537, 22.7135, 12.7295

Sweetspot

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



13.1591, 22.7144, 15.4955



36.9885, 46.7576, 47.1356



12.3494, 22.5571, 3.7035



7.8943, 10.2121, 10.1574



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



13.1591, 22.7144, 15.4955



23.1371, 40.0505, 26.8993



13.1600, 17.5115, 31.5416



5.8811, 6.5291, 6.9850



10.9285, 18.8442, 12.9312



0.1476, 0.2362, 0.2311

Inverse Universe

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



13.1761, 6.7237, 3.7371



23.1772, 11.8350, 6.2014



12.8750, 7.0779, 0.6880



5.8773, 5.8460, 6.4602



10.9412, 5.5815, 3.1713



0.1467, 0.0734, 0.1060

Previews

White Background



This preview shows how the XYZ color 13.1585, 22.7135, 15.4950 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 13.1585, 22.7135, 15.4950 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 13.1585, 22.7135, 15.4950

Background



This preview shows how black text looks on a background with the XYZ color 13.1585, 22.7135, 15.4950.



This preview shows how white text looks on a background with the XYZ color 13.1585, 22.7135,

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

13.1585, 22.7135, 15.4950

Protanopia

20.8555, 22.3833, 13.1187

Deuteranopia

22.8323, 22.3626, 16.4776



Tritanopia

17.1550, 22.7415, 34.4957

Trichromacy



Original Color

13.1585, 22.7135, 15.4950



Protanomaly

15.1825, 20.8731, 13.8184



Deuteranomaly

15.9030, 20.5709, 15.9644



Tritanomaly

15.2793, 22.6304, 26.4845

Monochromacy



Original Color

13.1585, 22.7135, 15.4950



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

10.7805, 14.9145, 14.1150

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.1585, 22.7135, 15.4950 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, 150, 99)` looks like.

```
.text, #text, p{  
    color:rgb(0, 150, 99)  
}
```

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, 150, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 150, 99) }
```

Border

The CSS property to change the border of an element to XYZ 13.1585, 22.7135, 15.4950 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, 150, 99) }
```


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

```
.border{ border-color:rgb(0, 150, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 150, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 150, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 150, 99);  
box-shadow:4px 4px 4px 4px rgb(0, 150, 99)  
}
```

Background

The CSS property to change the background color of an element to XYZ 13.1585, 22.7135, 15.4950 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 150, 99) }
```

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

```
.background{ background-color: rgb(0, 150,  
99) }
```

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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