

Converting Colors

XYZ(9.9508, 20.9960, 16.1235)

Have a look what the booklet for
XYZ(9.9508, 20.9960, 16.1235)
contains.

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Color

**XYZ(13.3046, 22.7720,
16.2646)**

Conversions

Conversions Part 1

Format	Color
Hex	009666
RGB	0, 150, 102
RGB Percent	0%, 59%, 40%
CMY	1.0000, 0.4118, 0.6000
CMYK	1.00, 0.00, 0.32, 0.41
HSL	161°, 100%, 29%
HSV	161°, 100%, 59%
XYZ	13.3046, 22.7720, 16.2646
YIQ	99.6780, -73.9920, -46.7280

Conversions

Conversions Part 2

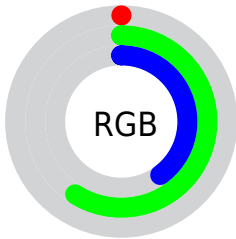
Format	Color
RYB	0, 89, 150
Decimal	38502
CIELab	54.84, -45.72, 16.01
CIELCh	55, 48.442, 160.696
Yxy	22.7720, 0.2542, 0.4351
Android (android.graphics.Color)	4278228582 (0xFF009666)
YUV	99.6780, 1.1447, -87.4176
Hunter-Lab	47.7200, -33.7433, 13.1960

Details

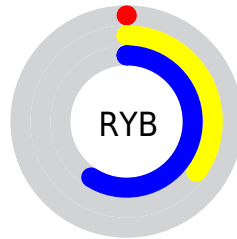
The XYZ color **13.3046, 22.7720, 16.2646** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.1119, 6.6979, 3.3990**, and the grayscale version is **12.0427, 12.6699, 13.7975**.

A 20% lighter version of the original color is **31.4188, 47.9410, 37.7346**, and **5.0573, 9.0112, 5.0872** is the 20% darker color. If you saturate the color by 10%, you get **13.3050, 22.7728, 16.2645**, and if you desaturate by 10%, it is **13.7473, 22.9725, 17.5649**.

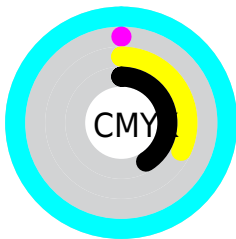
Distribution



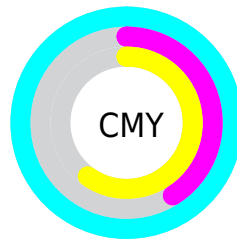
- Red (0%)
- Green (59%)
- Blue (40%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (32%)
- Black (41%)



- Cyan (100%)
- Magenta (41%)
- Yellow (60%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.3046, 22.7720, 16.2646 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 13.3046, 22.7720, 16.2646 by changing the saturation by 10% instead.

■ 13.3046, 22.7720,
16.2646

■ 13.3046, 22.7720,
16.2646

206.4591,
266.5518, 242.7968

■ 7.7171, 14.4252,
9.5552

■ 31.4466, 48.0187,
37.8301

■ 3.9647, 8.4170,
5.0033

■ 44.7318, 65.6874,
53.5233

■ 1.6822, 4.3629,
2.1904

■ 61.3136, 87.2322,
73.0482

■ 0.4451, 1.8786,
0.6688

■ 81.5574, 113.0375,
96.8233

■ 0.0000, 0.5355,
0.0000

■ 105.8284,
143.4878, 125.2672

■ 0.0000, 0.0000,
0.0000

■ 134.4922,

178.9673, 158.7984

167.9139,
219.8605, 197.8354

■ 13.3046, 22.7720,
16.2646

■ 13.3046, 22.7720,
16.2646

■ 13.3050, 22.7728,
16.2645

■ 13.7473, 22.9725,
17.5649

■ 14.3449, 23.2507,
18.9451

■ 15.1652, 23.6419,
20.4101

■ 16.2344, 24.1599,
21.9622

■ 17.5752, 24.8162,
23.6035

■ 19.2076, 25.6210,
25.3360

■ 21.1494, 26.5837,
27.1617

■ 23.4174, 27.7127,
29.0824

■ 26.0267, 29.0159,
31.0998

Harmonies

Analogous

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



15.5977, 22.7720, 8.4784



13.3046, 22.7720, 16.2646



13.0174, 22.7720, 30.6839

Triad

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



13.3046, 22.7720, 16.2646



23.6130, 22.7720, 66.5530



30.4319, 22.7720, 10.1035

Complementary

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



13.3046, 22.7720, 16.2646



13.1119, 6.6979, 3.3990

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.



33.4271, 22.7720, 19.7121



13.3046, 22.7720, 16.2646



29.0803, 22.7720, 54.5649

Square

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



13.3046, 22.7720, 16.2646



18.4141, 22.7720, 64.3639



32.8953, 22.7720, 35.8827



25.2314, 22.7720, 6.0727

Rectangle

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



13.3046, 22.7720, 16.2646



13.9393, 22.7720, 43.1115



32.8953, 22.7720, 35.8827



31.7660, 22.7720, 12.5773

Sweetspot

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



13.3052, 22.7729, 16.2651



37.1025, 46.8032, 47.7359



12.2225, 22.4918, 3.6974



7.9222, 10.2232, 10.3043



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.



13.3052, 22.7729, 16.2651



23.3972, 40.1545, 28.2686



12.8394, 16.8702, 31.4348



5.8859, 6.5310, 7.0103



11.0495, 18.8926, 13.5679



0.1487, 0.2366, 0.2370

Inverse Universe

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



13.1119, 6.6979, 3.3990



23.0669, 11.7909, 5.6203



12.9260, 7.1798, 0.7048



5.8727, 5.8442, 6.4360



10.8875, 5.5601, 2.8888



0.1456, 0.0730, 0.1001

Previews

White Background



This preview shows how the XYZ color 13.3046, 22.7720, 16.2646 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 13.3046, 22.7720, 16.2646 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

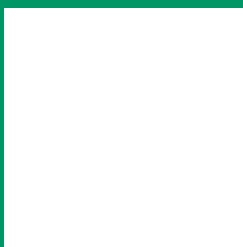
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 13.3046, 22.7720, 16.2646

Background



This preview shows how black text looks on a background with the XYZ color 13.3046, 22.7720, 16.2646.



This preview shows how white text looks on a background with the XYZ color 13.3046, 22.7720,

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

13.3046, 22.7720, 16.2646

Protanopia

20.9429, 22.4183, 13.5793

Deuteranopia

22.8029, 22.3293, 17.2955



Tritanopia

17.1041, 22.7153, 34.4934

Trichromacy



Original Color

13.3046, 22.7720, 16.2646



Protanomaly

15.2734, 20.9095, 14.2973



Deuteranomaly

15.9505, 20.5776, 16.7669



Tritanomaly

15.3185, 22.6424, 26.8556

Monochromacy



Original Color

13.3046, 22.7720, 16.2646



Achromatopsia

12.1130, 12.7438, 13.8780



Achromatomaly

10.9417, 14.9864, 14.6279

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.3046, 22.7720, 16.2646 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, 102)` looks like.

```
.text, #text, p{  
    color:rgb(0, 150, 102)  
}
```

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, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 150, 102) }
```

Border

The CSS property to change the border of an element to XYZ 13.3046, 22.7720, 16.2646 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, 102) }
```


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

```
.border{ border-color:rgb(0, 150, 102) }
```

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, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 150, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 150, 102);  
box-shadow:4px 4px 4px 4px rgb(0, 150,  
102) }
```

Background

The CSS property to change the background color of an element to XYZ 13.3046, 22.7720, 16.2646 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, 102) }
```

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

```
.background{ background-color: rgb(0, 150,  
102) }
```

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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