

Converting Colors

XYZ(23.8784, 30.8763, 16.6521)

Have a look what the booklet for
XYZ(23.8784, 30.8763, 16.6521)
contains.

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Color

**XYZ(23.9472, 30.9990,
16.7779)**

Conversions

Conversions Part 1

Format	Color
Hex	80A164
RGB	128, 161, 100
RGB Percent	50%, 63%, 39%
CMY	0.4980, 0.3686, 0.6078
CMYK	0.20, 0.00, 0.38, 0.37
HSL	92°, 24%, 51%
HSV	92°, 38%, 63%
XYZ	23.9472, 30.9990, 16.7779
YIQ	144.1790, -0.0870, -25.9670

Conversions

Conversions Part 2

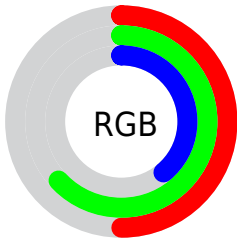
Format	Color
RYB	100, 161, 133
Decimal	8429924
CIELab	62.51, -22.59, 28.13
CIELCh	63, 36.083, 128.768
Yxy	30.9990, 0.3339, 0.4322
Android (android.graphics.Color)	4286620004 (0xFF80A164)
YUV	144.1790, -21.7802, -14.1890
Hunter-Lab	55.6767, -20.6594, 21.1070

Details

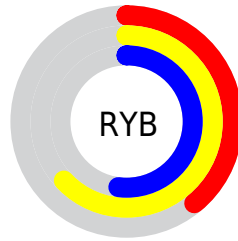
The XYZ color **23.9472, 30.9990, 16.7779** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **20.6644, 16.6750, 35.8493**, and the grayscale version is **26.6672, 28.0559, 30.5529**.

A 20% lighter version of the original color is **49.5148, 61.3238, 38.9327**, and **9.1490, 12.7630, 5.2301** is the 20% darker color. If you saturate the color by 10%, you get **21.9894, 30.0720, 13.0128**, and if you desaturate by 10%, it is **26.1731, 32.0483, 21.3607**.

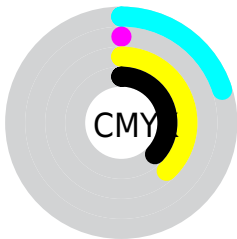
Distribution



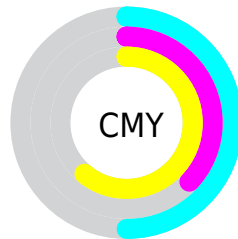
- Red (50%)
- Green (63%)
- Blue (39%)



- Red (39%)
- Yellow (63%)
- Blue (52%)



- Cyan (20%)
- Magenta (0%)
- Yellow (38%)
- Black (37%)



- Cyan (50%)
- Magenta (37%)
- Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.9472, 30.9990, 16.7779 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 23.9472, 30.9990, 16.7779 by changing the saturation by 10% instead.

■ 23.9472, 30.9990,
16.7779

■ 23.9472, 30.9990,
16.7779

264.9989,
306.5337, 245.8897

■ 15.4190, 20.5981,
9.9160

■ 49.3993, 61.2385,
38.7289

■ 9.2022, 12.8305,
5.2384

■ 67.0539, 81.8459,
54.6551

■ 4.9315, 7.3120,
2.3266

■ 88.4814, 106.6242,
74.4398

■ 2.2414, 3.6580,
0.7461

■ 114.0471,
135.9578, 98.5015

■ 0.7644, 1.4841,
0.0000

144.1163,
170.2312, 127.2588

■ 0.0000, 0.2775,
0.0000

179.0544,

■ 0.0000, 0.0000,

209.8287, 161.1303

0.0000

219.2268,
255.1348, 200.5344

■ 23.9472, 30.9990,
16.7779

■ 23.9472, 30.9990,
16.7779

■ 21.9894, 30.0720,
13.0128

■ 26.1731, 32.0483,
21.3607

■ 20.2855, 29.2582,
10.0153

■ 28.6757, 33.2206,
26.8034

■ 18.8232, 28.5533,
7.7329

■ 31.4664, 34.5217,
33.1478

■ 17.5880, 27.9513,
6.1054

■ 34.5550, 35.9559,
40.4322

■ 16.5637, 27.4452,
5.0632

■ 37.9506, 37.5271,
48.6928

■ 15.7237, 27.0242,
4.4851

■ 41.6622, 39.2391,
57.9639

■ 15.5616, 26.9428,
4.3803

■ 45.6983, 41.0957,
68.2780

■ 50.0670, 43.1003,
79.6663

■ 54.7762, 45.2564,
92.1587

Harmonies

Analogous

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



28.0502, 30.9990, 13.4864



23.9472, 30.9990, 16.7779



21.5225, 30.9990, 24.8906

Triad

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



23.9472, 30.9990, 16.7779



26.1805, 30.9990, 65.6829



39.7947, 30.9990, 29.8030

Complementary

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



23.9472, 30.9990, 16.7779



20.6644, 16.6750, 35.8493

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.



39.1511, 30.9990, 44.5021



23.9472, 30.9990, 16.7779



30.9238, 30.9990, 68.0757

Square

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



23.9472, 30.9990, 16.7779



22.7090, 30.9990, 53.6329



35.7681, 30.9990, 59.4760



37.4402, 30.9990, 19.5149

Rectangle

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



23.9472, 30.9990, 16.7779



21.0095, 30.9990, 33.1756



35.7681, 30.9990, 59.4760



39.9268, 30.9990, 34.3364

Sweetspot

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



23.9480, 31.0003, 16.7786



54.6344, 61.0233, 55.4087



25.3232, 25.1459, 15.5761



11.8431, 13.3185, 11.8347



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.



23.9480, 31.0003, 16.7786



40.0583, 54.1766, 24.5670



20.4013, 29.1604, 17.1328



7.2800, 8.0468, 7.5496



12.4740, 21.5411, 3.5004



0.3164, 0.4806, 0.0761

Inverse Universe

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



20.6644, 16.6750, 35.8493



33.3599, 24.9686, 63.4477



25.5114, 19.1943, 35.1476



7.0494, 7.0398, 8.8903



8.3323, 3.7019, 27.2052



0.2288, 0.1055, 0.5742

Previews

White Background



This preview shows how the XYZ color 23.9472, 30.9990, 16.7779 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 23.9472, 30.9990, 16.7779 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 ✓ Pass

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

XYZ 23.9472, 30.9990, 16.7779

Background



This preview shows how black text looks on a background with the XYZ color 23.9472, 30.9990, 16.7779.



This preview shows how white text looks on a background with the XYZ color 23.9472, 30.9990,

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

23.9472, 30.9990, 16.7779

Protanopia

28.4878, 30.8703, 15.5234

Deuteranopia

31.2943, 30.6493, 17.3632



Tritanopia

28.6640, 30.9024, 40.0513

Trichromacy



Original Color

23.9472, 30.9990, 16.7779

Protanomaly

26.6415, 30.8851, 15.8665

Deuteranomaly

28.0525, 30.3690, 17.2152

Tritanomaly

26.5277, 30.7684, 29.7400

Monochromacy



Original Color

23.9472, 30.9990, 16.7779

Achromatopsia

26.5089, 27.8894, 30.3716

Achromatomaly

25.2839, 28.7745, 24.6435

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.9472, 30.9990, 16.7779 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(128, 161, 100)` looks like.

```
.text, #text, p{  
    color:rgb(128, 161, 100)  
}
```

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(128, 161, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 161, 100) }
```

Border

The CSS property to change the border of an element to XYZ 23.9472, 30.9990, 16.7779 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(128, 161, 100) }
```


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

```
.border{ border-color:rgb(128, 161, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 161, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 161, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 161, 100);  
box-shadow:4px 4px 4px 4px rgb(128, 161,  
100) }
```

Background

The CSS property to change the background color of an element to XYZ 23.9472, 30.9990, 16.7779 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 161, 100) }
```

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

```
.background{ background-color: rgb(128,  
161, 100) }
```

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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