

Converting Colors

XYZ(12.8879, 16.5101, 20.8090)

Have a look what the booklet for
XYZ(12.8879, 16.5101, 20.8090)
contains.

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Color

**XYZ(12.9266, 16.5894,
20.9331)**

Conversions

Conversions Part 1

Format	Color
Hex	457A7A
RGB	69, 122, 122
RGB Percent	27%, 48%, 48%
CMY	0.7294, 0.5216, 0.5216
CMYK	0.43, 0.00, 0.00, 0.52
HSL	180°, 28%, 37%
HSV	180°, 43%, 48%
XYZ	12.9266, 16.5894, 20.9331
YIQ	106.1530, -31.5880, -11.2360

Conversions

Conversions Part 2

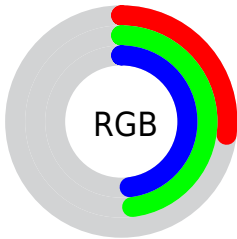
Format	Color
RYB	69, 96, 122
Decimal	4553338
CIELab	47.74, -17.61, -5.54
CIELCh	48, 18.455, 197.458
Yxy	16.5894, 0.2562, 0.3288
Android (android.graphics.Color)	4282743418 (0xFF457A7A)
YUV	106.1530, 7.8126, -32.5832
Hunter-Lab	40.7301, -14.6267, -1.9608

Details

The XYZ color **12.9266, 16.5894, 20.9331** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.2289, 8.8239, 6.7421**, and the grayscale version is **13.7274, 14.4423, 15.7276**.

A 20% lighter version of the original color is **30.8551, 37.7809, 45.7106**, and **3.7821, 5.3477, 7.1362** is the 20% darker color. If you saturate the color by 10%, you get **12.1487, 16.1888, 20.8970**, and if you desaturate by 10%, it is **13.8834, 17.0831, 20.9783**.

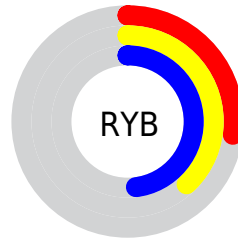
Distribution



Red (27%)

Green (48%)

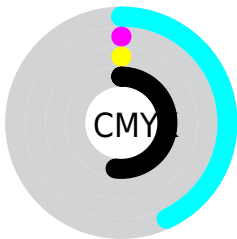
Blue (48%)



Red (27%)

Yellow (38%)

Blue (48%)

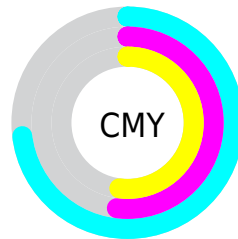


Cyan (43%)

Magenta (0%)

Yellow (0%)

Black (52%)



Cyan (73%)

Magenta (52%)

Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9266, 16.5894, 20.9331 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 12.9266, 16.5894, 20.9331 by changing the saturation by 10% instead.

■ 12.9266, 16.5894,
20.9331

■ 12.9266, 16.5894,
20.9331

204.0938,
232.7950, 269.6921

■ 7.4547, 9.9422,
12.8843

■ 30.7743, 37.6185,
45.8555

■ 3.7969, 5.3606,
7.2192

■ 43.8808, 52.7691,
63.5662

■ 1.5879, 2.4604,
3.5190

■ 60.2628, 71.5229,
85.3347

■ 0.3845, 0.8567,
1.3654

■ 80.2858, 94.2645,
111.5795

■ 0.0000, 0.0000,
0.1145

■ 104.3150,
121.3780, 142.7191

■ 0.0000, 0.0000,
0.0000

132.7158,

153.2481, 179.1720

165.8537,
190.2589, 221.3568

■ 12.9266, 16.5894,
20.9331

■ 12.9266, 16.5894,
20.9331

■ 12.1487, 16.1888,
20.8970

■ 13.8834, 17.0831,
20.9783

■ 11.5374, 15.8736,
20.8682

■ 15.0278, 17.6730,
21.0320

■ 11.0809, 15.6383,
20.8468

■ 16.3695, 18.3647,
21.0949

■ 10.7652, 15.4756,
20.8319

■ 17.9173, 19.1626,
21.1674

■ 10.5728, 15.3764,
20.8228

■ 19.6792, 20.0709,
21.2500

■ 10.4726, 15.3247,
20.8180

■ 21.6631, 21.0936,
21.3429

■ 23.8762, 22.2345,
21.4466

■ 26.3256, 23.4972,
21.5614

■ 29.0180, 24.8852,
21.6875

Harmonies

Analogous

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



12.8649, 16.5894, 16.1581



12.9266, 16.5894, 20.9331



13.7154, 16.5894, 25.6319

Triad

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



12.9266, 16.5894, 20.9331



18.2267, 16.5894, 24.9412



16.4679, 16.5894, 10.5565

Complementary

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



12.9266, 16.5894, 20.9331



11.2289, 8.8239, 6.7421

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.



18.0152, 16.5894, 12.1534



12.9266, 16.5894, 20.9331



19.0773, 16.5894, 20.1122

Square

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



12.9266, 16.5894, 20.9331



16.7404, 16.5894, 28.2092



18.9973, 16.5894, 15.4681



14.8335, 16.5894, 10.6983

Rectangle

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



12.9266, 16.5894, 20.9331



14.5807, 16.5894, 27.8392



18.9973, 16.5894, 15.4681



17.0175, 16.5894, 10.8942

Sweetspot

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



12.9271, 16.5901, 20.9335



28.8305, 32.3246, 37.1124



10.5516, 15.6471, 8.0946



6.4866, 7.3367, 8.4809



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.9271, 16.5901, 20.9335



21.3955, 28.4918, 36.7637



10.1855, 11.1067, 20.0200



4.1071, 4.5124, 5.0977



11.0256, 16.1339, 21.9172



52.5929, 76.9602, 104.5472

Inverse Universe

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



11.2289, 8.8239, 6.7421



17.9977, 12.9530, 8.3691



13.1585, 12.6833, 7.3852



3.9983, 4.0150, 4.1888



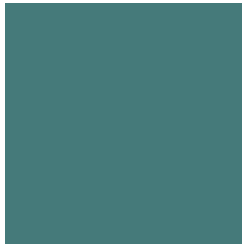
8.4502, 4.3562, 0.3956



40.3081, 20.7796, 1.8866

Previews

White Background



This preview shows how the XYZ color 12.9266, 16.5894, 20.9331 looks on a white 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

Black Background



This preview shows how the XYZ color 12.9266, 16.5894, 20.9331 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

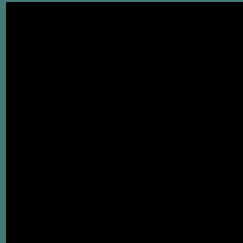
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9266, 16.5894, 20.9331

Background



This preview shows how black text looks on a background with the XYZ color 12.9266, 16.5894, 20.9331.



This preview shows how white text looks on a background with the XYZ color 12.9266, 16.5894,

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

12.9266, 16.5894, 20.9331

Protanopia

15.8860, 16.4267, 18.8564

Deuteranopia

16.7488, 16.4841, 21.7010



Tritanopia

13.5391, 16.6642, 23.6220

Trichromacy



Original Color

12.9266, 16.5894, 20.9331

Protanomaly

14.5524, 16.3955, 19.5372

Deuteranomaly

14.9109, 16.1992, 21.4096

Tritanomaly

13.2667, 16.5466, 22.5733

Monochromacy



Original Color

12.9266, 16.5894, 20.9331

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

13.2330, 15.0853, 17.5435

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9266, 16.5894, 20.9331 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(69, 122, 122)` looks like.

```
.text, #text, p{  
    color:rgb(69, 122, 122)  
}
```

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(69, 122, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 122, 122) }
```

Border

The CSS property to change the border of an element to XYZ 12.9266, 16.5894, 20.9331 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(69, 122, 122) }
```


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

```
.border{ border-color:rgb(69, 122, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 122, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 122, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 122, 122);  
box-shadow:4px 4px 4px 4px rgb(69, 122,  
122) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9266, 16.5894, 20.9331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 122, 122) }
```

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

```
.background{ background-color: rgb(69, 122,  
122) }
```

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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