

Converting Colors

XYZ(12.2595, 14.7581, 32.9987)

Have a look what the booklet for
XYZ(12.2595, 14.7581, 32.9987)
contains.

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Color

**XYZ(12.2966, 14.7566,
33.2106)**

Conversions

Conversions Part 1	
Format	Color
Hex	12739B
RGB	18, 115, 155
RGB Percent	7%, 45%, 61%
CMY	0.9293, 0.5490, 0.3922
CMYK	0.88, 0.26, 0.00, 0.39
HSL	198°, 79%, 34%
HSV	198°, 88%, 61%
XYZ	12.2966, 14.7566, 33.2106
YIQ	90.5570, -70.6520, -8.1240

Conversions

Conversions Part 2

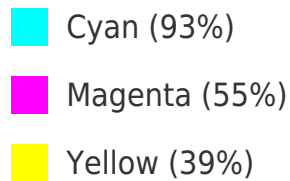
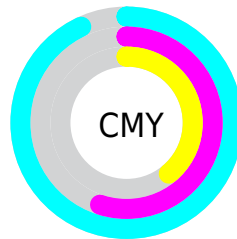
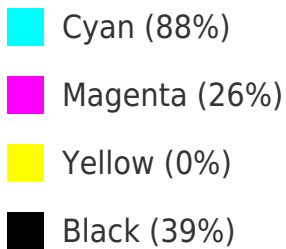
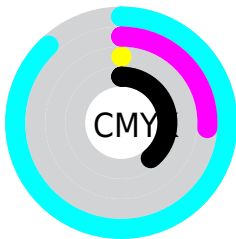
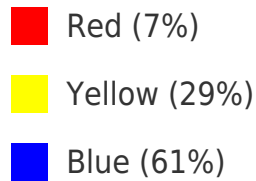
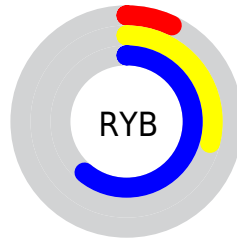
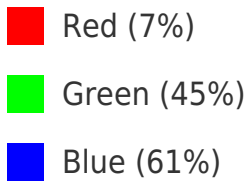
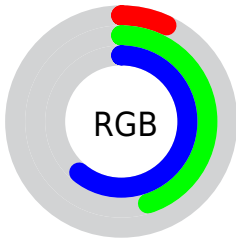
Format	Color
RYB	18, 75, 155
Decimal	1209243
CIELab	45.30, -11.34, -28.94
CIELCh	45, 31.082, 248.607
Yxy	14.7566, 0.2040, 0.2449
Android (android.graphics.Color)	4279399323 (0xFF12739B)
YUV	90.5570, 31.7704, -63.6325
Hunter-Lab	38.4143, -10.0864, -24.3684

Details

The XYZ color **12.2966, 14.7566, 33.2106** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **15.1410, 10.0403, 1.7130**, and the grayscale version is **9.7869, 10.2966, 11.2130**.

A 20% lighter version of the original color is **29.6680, 34.4642, 66.0614**, and **4.5058, 5.0138, 13.8270** is the 20% darker color. If you saturate the color by 10%, you get **11.5753, 13.6375, 33.0329**, and if you desaturate by 10%, it is **13.2201, 16.0181, 33.4057**.

Distribution



Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2966, 14.7566, 33.2106 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 12.2966, 14.7566, 33.2106 by changing the saturation by 10% instead.

12.2966, 14.7566,
33.2106

12.2966, 14.7566,
33.2106

200.0892,
221.8882, 331.2587

7.0196, 8.6487,
22.0154

29.6464, 34.4256,
65.8240

3.5208, 4.5128,
13.6698

42.4499, 48.7556,
88.0792

1.4348, 1.9643,
7.7552

58.4929, 66.5950,
114.8583

0.2808, 0.5866,
3.8532

78.1409, 88.3283,
146.5796

0.0000, 0.0000,
1.5452

101.7592,
114.3399, 183.6617

0.0000, 0.0000,
0.2512

129.7131,

0.0000, 0.0000,

145.0141, 226.5233

0.0000

162.3679,
180.7354, 275.5828

■ 12.2966, 14.7566,
33.2106

■ 12.2966, 14.7566,
33.2106

■ 11.5753, 13.6375,
33.0329

■ 13.2201, 16.0181,
33.4057

■ 11.4644, 13.4624,
33.0050

■ 14.3983, 17.4487,
33.6198

■ 15.8597, 19.0640,
33.8545

■ 17.6283, 20.8769,
34.1112

■ 19.7256, 22.8988,
34.3910

■ 22.1709, 25.1403,
34.6947

■ 24.9820, 27.6110,
35.0235

■ 28.1755, 30.3199,
35.3780

■ 31.7668, 33.2755,
35.7592

Harmonies

Analogous

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



10.5024, 14.7566, 26.6352



12.2966, 14.7566, 33.2106



14.7796, 14.7566, 34.5541

Triad

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



12.2966, 14.7566, 33.2106



19.5110, 14.7566, 14.0379



11.1583, 14.7566, 7.3407

Complementary

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



12.2966, 14.7566, 33.2106



15.1410, 10.0403, 1.7130

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.



13.2979, 14.7566, 5.7319



12.2966, 14.7566, 33.2106



18.2601, 14.7566, 8.7460

Square

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



12.2966, 14.7566, 33.2106



19.1577, 14.7566, 21.8127



15.9098, 14.7566, 6.1527



9.9033, 14.7566, 11.4315

Rectangle

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



12.2966, 14.7566, 33.2106



16.5317, 14.7566, 32.0023



15.9098, 14.7566, 6.1527



11.7867, 14.7566, 6.5589

Sweetspot

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



12.2971, 14.7571, 33.2110



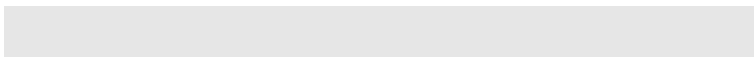
40.1067, 45.3825, 62.1821



12.7056, 23.8654, 7.7855



8.7460, 9.9735, 14.0345



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



12.2971, 14.7571, 33.2110



20.3620, 23.7709, 59.0514



7.2109, 4.5846, 31.5156



6.2322, 6.7217, 7.8979



9.2420, 10.8808, 26.5208



0.1690, 0.2244, 0.4068

Inverse Universe

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



16.8289, 8.6397, 17.0007



29.1382, 14.4518, 27.0919



21.0014, 21.7611, 3.6665



6.3843, 6.2929, 7.4038



13.1237, 6.5037, 12.4424



0.2118, 0.1035, 0.2680

Previews

White Background



This preview shows how the XYZ color 12.2966, 14.7566, 33.2106 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 12.2966, 14.7566, 33.2106 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 12.2966, 14.7566, 33.2106

Background



This preview shows how black text looks on a background with the XYZ color 12.2966, 14.7566, 33.2106.

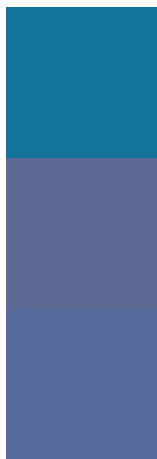


This preview shows how white text looks on a background with the XYZ color 12.2966, 14.7566,

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

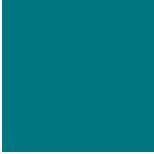
12.2966, 14.7566, 33.2106

Protanopia

14.9341, 14.5894, 29.6327

Deuteranopia

14.9861, 14.6737, 33.9407



Tritanopia

10.4931, 14.7522, 22.7165

Trichromacy

	Original Color 12.2966, 14.7566, 33.2106
	Protanomaly 13.2204, 14.2975, 30.9171
	Deuteranomaly 13.3939, 14.3297, 33.5125
	Tritanomaly 11.1535, 14.8370, 26.3207

Monochromacy

	Original Color 12.2966, 14.7566, 33.2106
	Achromatopsia 9.9438, 10.4616, 11.3927
	Achromatomaly 9.7088, 11.4192, 17.6120

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2966, 14.7566, 33.2106 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(18, 115, 155)` looks like.

```
.text, #text, p{  
    color:rgb(18, 115, 155)  
}
```

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(18, 115, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 115, 155) }
```

Border

The CSS property to change the border of an element to XYZ 12.2966, 14.7566, 33.2106 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(18, 115, 155) }
```


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

```
.border{ border-color:rgb(18, 115, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 115, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 115, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 115, 155);  
box-shadow:4px 4px 4px 4px rgb(18, 115,  
155) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2966, 14.7566, 33.2106 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 115, 155) }
```

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

```
.background{ background-color: rgb(18, 115,  
155) }
```

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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