

Converting Colors

XYZ(12.0092, 15.8102, 22.6687)

Have a look what the booklet for
XYZ(12.0092, 15.8102, 22.6687)
contains.

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Color

**XYZ(12.0989, 15.9371,
22.8606)**

Conversions

Conversions Part 1

Format	Color
Hex	337980
RGB	51, 121, 128
RGB Percent	20%, 47%, 50%
CMY	0.8000, 0.5255, 0.4980
CMYK	0.60, 0.05, 0.00, 0.50
HSL	185°, 43%, 35%
HSV	185°, 60%, 50%
XYZ	12.0989, 15.9371, 22.8606
YIQ	100.8680, -43.9670, -12.6630

Conversions

Conversions Part 2

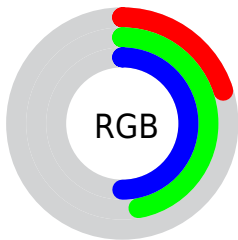
Format	Color
RYB	51, 88, 128
Decimal	3373440
CIELab	46.89, -19.57, -10.44
CIELCh	47, 22.175, 208.074
Yxy	15.9371, 0.2377, 0.3131
Android (android.graphics.Color)	4281563520 (0xFF337980)
YUV	100.8680, 13.3761, -43.7342
Hunter-Lab	39.9213, -15.7645, -6.0070




Details

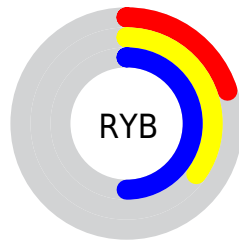
The XYZ color **12.0989, 15.9371, 22.8606** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.0130, 7.8546, 4.0680**, and the grayscale version is **12.3108, 12.9519, 14.1047**.


A 20% lighter version of the original color is **29.4204, 36.6725, 49.2439**, and **3.7286, 5.1992, 8.2042** is the 20% darker color. If you saturate the color by 10%, you get **11.4003, 15.3687, 22.7880**, and if you desaturate by 10%, it is **12.9778, 16.6017, 22.9429**.

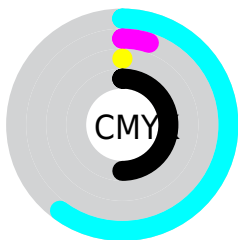
Distribution







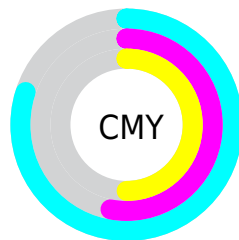
-  Red (20%)
-  Green (47%)
-  Blue (50%)






-  Red (20%)
-  Yellow (35%)
-  Blue (50%)



-  Cyan (60%)
-  Magenta (5%)
-  Yellow (0%)
-  Black (50%)



-  Cyan (80%)
-  Magenta (53%)
-  Yellow (50%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0989, 15.9371, 22.8606 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 12.0989, 15.9371, 22.8606 by changing the saturation by 10% instead.

■ 12.0989, 15.9371,
22.8606

■ 12.0989, 15.9371,
22.8606

■ 198.8155,
228.9703, 280.1069

■ 6.8837, 9.4797,
14.2863

■ 29.2904, 36.4890,
49.0846

■ 3.4352, 5.0553,
8.1790

■ 41.9975, 51.3522,
67.5714

■ 1.3879, 2.2798,
4.1203

■ 57.9325, 69.7861,
90.1994

■ 0.2476, 0.7630,
1.6916

■ 77.4610, 92.1752,
117.3872

■ 0.0000, 0.0000,
0.3549

■ 100.9481,
118.9037, 149.5533

■ 0.0000, 0.0000,
0.0000

■ 128.7594,

150.3561, 187.1162

161.2600,
186.9169, 230.4946

■ 12.0989, 15.9371,
22.8606

■ 12.0989, 15.9371,
22.8606

■ 11.4003, 15.3687,
22.7880

■ 12.9778, 16.6017,
22.9429

■ 10.8655, 14.8868,
22.7232

■ 14.0489, 17.3676,
23.0342

■ 10.4776, 14.4833,
22.6657

■ 15.3246, 18.2415,
23.1357

■ 10.1840, 14.1339,
22.6138

■ 16.8159, 19.2291,
23.2477

■ 18.5332, 20.3358,
23.3708

■ 20.4859, 21.5665,
23.5054

■ 22.6832, 22.9258,
23.6520

■ 25.1336, 24.4181,
23.8109

■ 27.8451, 26.0477,
23.9825

Harmonies

Analogous

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



11.7280, 15.9371, 16.9975



12.0989, 15.9371, 22.8606



13.2658, 15.9371, 28.0474

Triad

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



12.0989, 15.9371, 22.8606



18.5268, 15.9371, 23.6133



15.2730, 15.9371, 8.7394

Complementary

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



12.0989, 15.9371, 22.8606



11.0130, 7.8546, 4.0680

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.



17.1997, 15.9371, 9.7948



12.0989, 15.9371, 22.8606



19.1749, 15.9371, 17.7130

Square

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



12.0989, 15.9371, 22.8606



16.9653, 15.9371, 28.5429



18.6700, 15.9371, 12.8094



13.4648, 15.9371, 9.5525

Rectangle

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



12.0989, 15.9371, 22.8606



14.3925, 15.9371, 29.9921



18.6700, 15.9371, 12.8094



15.9289, 15.9371, 8.8818

Sweetspot

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



12.0994, 15.9377, 22.8610



30.1035, 34.1791, 40.9669



9.8337, 16.4421, 6.5814



6.8812, 7.8934, 9.5792



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.0994, 15.9377, 22.8610



19.7104, 26.7446, 40.0797



8.3616, 8.4621, 21.6150



4.4141, 4.8222, 5.5114



10.0985, 14.0156, 22.4230



0.0000, 0.0000, 0.0000

Inverse Universe

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



13.5375, 8.3377, 18.9857



22.5748, 12.4295, 32.1767



13.6753, 13.1792, 4.9554



4.4818, 4.4059, 5.3419



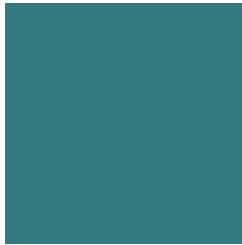
11.9743, 5.8094, 16.9860



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.0989, 15.9371, 22.8606 looks on a white background.

Color Contrast Check

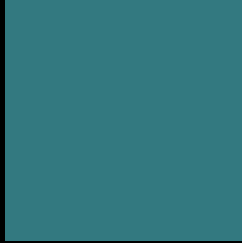
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.0989, 15.9371, 22.8606 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 12.0989, 15.9371, 22.8606

Background



This preview shows how black text looks on a background with the XYZ color 12.0989, 15.9371, 22.8606.



This preview shows how white text looks on a background with the XYZ color 12.0989, 15.9371,

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

12.0989, 15.9371, 22.8606

Protanopia

15.4575, 15.8473, 20.3333

Deuteranopia

16.0148, 15.7433, 23.6674



Tritanopia

12.2828, 16.0165, 23.5632

Trichromacy



Original Color

12.0989, 15.9371, 22.8606

Protanomaly

13.7752, 15.6137, 21.3565

Deuteranomaly

14.0542, 15.5458, 23.3790

Tritanomaly

12.2160, 15.9898, 23.2114

Monochromacy



Original Color

12.0989, 15.9371, 22.8606

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

11.7991, 13.7118, 17.0637

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0989, 15.9371, 22.8606 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(51, 121, 128)` looks like.

```
.text, #text, p{  
    color:rgb(51, 121, 128)  
}
```

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(51, 121, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 121, 128) }
```

Border

The CSS property to change the border of an element to XYZ 12.0989, 15.9371, 22.8606 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(51, 121, 128) }
```


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

```
.border{ border-color:rgb(51, 121, 128) }
```

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

Here you see how a box with a 4 pixel rgb(51, 121, 128) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 121, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 121, 128);  
box-shadow:4px 4px 4px 4px rgb(51, 121,  
128) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0989, 15.9371, 22.8606 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 121, 128) }
```

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

```
.background{ background-color: rgb(51, 121,  
128) }
```

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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