

Converting Colors

XYZ(12.4775, 20.8608, 10.3365)

Have a look what the booklet for
XYZ(12.4775, 20.8608, 10.3365)
contains.

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Color

**XYZ(12.4774, 20.8589,
10.3897)**

Conversions

Conversions Part 1

Format	Color
Hex	328F4D
RGB	50, 143, 77
RGB Percent	20%, 56%, 30%
CMY	0.8039, 0.4392, 0.6980
CMYK	0.65, 0.00, 0.46, 0.44
HSL	137°, 48%, 38%
HSV	137°, 65%, 56%
XYZ	12.4774, 20.8589, 10.3897
YIQ	107.6690, -34.2420, -40.2420

Conversions

Conversions Part 2

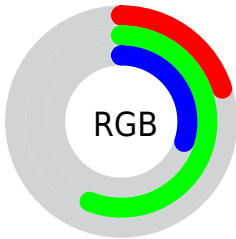
Format	Color
R_{YB}	50, 122, 143
Decimal	3313485
CIE _{Lab}	52.79, -42.41, 27.22
CIE _{LCh}	53, 50.396, 147.309
Yxy	20.8589, 0.2854, 0.4770
Android (android.graphics.Color)	4281503565 (0xFF328F4D)
YUV	107.6690, -15.1198, -50.5757
Hunter-Lab	45.6715, -31.1593, 18.4824

Details

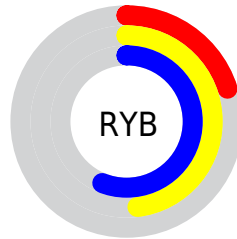
The XYZ color **12.4774, 20.8589, 10.3897** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **15.6213, 9.3821, 17.5111**, and the grayscale version is **14.2094, 14.9494, 16.2799**.

A 20% lighter version of the original color is **30.0883, 45.0463, 27.1877**, and **3.9754, 7.5759, 2.4811** is the 20% darker color. If you saturate the color by 10%, you get **11.5487, 20.4190, 8.6197**, and if you desaturate by 10%, it is **13.6833, 21.4365, 12.4655**.

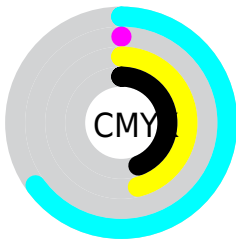
Distribution



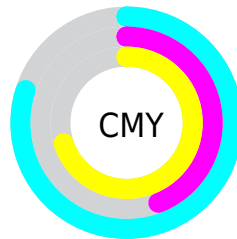
- Red (20%)
- Green (56%)
- Blue (30%)



- Red (20%)
- Yellow (48%)
- Blue (56%)



- Cyan (65%)
- Magenta (0%)
- Yellow (46%)
- Black (44%)





- Cyan (80%)
- Magenta (44%)
- Yellow (70%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.4774, 20.8589, 10.3897 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 12.4774, 20.8589, 10.3897 by changing the saturation by 10% instead.


 12.4774, 20.8589,
10.3897

 12.4774, 20.8589,
10.3897


201.2467,
256.5277, 204.0161


 7.1442, 13.0209,
5.5491


 29.9710, 44.8526,
27.1451


 3.5996, 7.4429,
2.5086


 42.8622, 61.7771,
39.8971


 1.4782, 3.7406,
0.8447


 59.0033, 82.4992,
56.1233

 0.3109, 1.5296,
0.0000

 78.7598, 107.4033,
76.2422

 0.0000, 0.3094,
0.0000

 102.4971,
136.8738, 100.6724

 0.0000, 0.0000,
0.0000

 130.5804,

171.2951, 129.8324

163.3752,
211.0516, 164.1408

■ 12.4774, 20.8589,
10.3897

■ 12.4774, 20.8589,
10.3897

■ 11.5487, 20.4190,
8.6197

■ 13.6833, 21.4365,
12.4655

■ 10.8719, 20.1021,
7.1395

■ 15.1859, 22.1596,
14.8593

■ 10.4159, 19.8933,
5.9334

■ 17.0046, 23.0388,
17.5843

■ 10.2322, 19.8095,
5.4298

■ 19.1566, 24.0825,
20.6526

■ 21.6580, 25.2989,
24.0756

■ 24.5238, 26.6954,
27.8642

■ 27.7680, 28.2790,
32.0290

■ 31.4039, 30.0564,
36.5798

■ 35.4442, 32.0339,
41.5263

Harmonies

Analogous

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



15.5403, 20.8589, 5.4779



12.4774, 20.8589, 10.3897



11.3457, 20.8589, 21.3797

Triad

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



12.4774, 20.8589, 10.3897



19.3550, 20.8589, 65.6386



30.2320, 20.8589, 11.8508

Complementary

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



12.4774, 20.8589, 10.3897



15.6213, 9.3821, 17.5111

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.



31.7341, 20.8589, 24.0981



12.4774, 20.8589, 10.3897



24.8344, 20.8589, 59.3677

Square

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



12.4774, 20.8589, 10.3897



14.8520, 20.8589, 56.8260



29.6077, 20.8589, 42.2101



25.8018, 20.8589, 6.0216

Rectangle

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



12.4774, 20.8589, 10.3897



11.6564, 20.8589, 32.4598



29.6077, 20.8589, 42.2101



31.1268, 20.8589, 15.1415

Sweetspot

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



12.4779, 20.8598, 10.3902



36.2918, 44.0917, 39.7313



17.6881, 23.6339, 6.6472



8.0697, 9.9883, 8.7631



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.4779, 20.8598, 10.3902



20.0686, 36.2777, 14.1500



14.7042, 21.7503, 22.1137



5.4033, 6.0535, 6.0895



9.0551, 17.5179, 4.8442



0.0952, 0.1709, 0.0918

Inverse Universe

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



15.6213, 9.3821, 17.5111



26.1112, 14.0540, 27.7201



13.5791, 8.5652, 6.7569



5.5604, 5.4847, 6.4492



12.1231, 6.0063, 11.5655



0.1255, 0.0613, 0.1611

Previews

White Background



This preview shows how the XYZ color 12.4774, 20.8589, 10.3897 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



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 12.4774, 20.8589, 10.3897

Background



This preview shows how black text looks on a background with the XYZ color 12.4774, 20.8589, 10.3897.



This preview shows how white text looks on a background with the XYZ color 12.4774, 20.8589,

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

12.4774, 20.8589, 10.3897

Protanopia

18.9522, 20.5254, 8.9242

Deuteranopia

20.8555, 20.5415, 11.0493



Tritanopia

16.4508, 20.7429, 30.3309

Trichromacy



Original Color

12.4774, 20.8589, 10.3897

Protanomaly

15.3977, 20.0477, 9.3614

Deuteranomaly

16.1438, 19.6098, 10.7188

Tritanomaly

14.5896, 20.6142, 21.2991

Monochromacy



Original Color

12.4774, 20.8589, 10.3897

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

12.9255, 16.5640, 13.8252

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4774, 20.8589, 10.3897 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(50, 143, 77)` looks like.

```
.text, #text, p{  
    color:rgb(50, 143, 77)  
}
```

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(50, 143, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 143, 77) }
```

Border

The CSS property to change the border of an element to XYZ 12.4774, 20.8589, 10.3897 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(50, 143, 77) }
```


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

```
.border{ border-color:rgb(50, 143, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 143, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 143, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 143, 77);  
box-shadow:4px 4px 4px 4px rgb(50, 143,  
77) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4774, 20.8589, 10.3897 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 143, 77) }
```

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

```
.background{ background-color: rgb(50, 143,  
77) }
```

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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