

Converting Colors

XYZ(12.4224, 16.2226, 10.8909)

Have a look what the booklet for
XYZ(12.4224, 16.2226, 10.8909)
contains.

XYZ(12.4365, 16.1969, 10.8583)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.4365, 16.1969,
10.8583)**

Conversions

Conversions Part 1

Format	Color
Hex	597854
RGB	89, 120, 84
RGB Percent	35%, 47%, 33%
CMY	0.6510, 0.5294, 0.6706
CMYK	0.26, 0.00, 0.30, 0.53
HSL	112°, 18%, 40%
HSV	112°, 30%, 47%
XYZ	12.4365, 16.1969, 10.8583
YIQ	106.6270, -6.9200, -17.7680

Conversions

Conversions Part 2

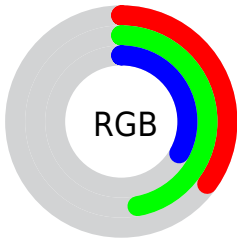
Format	Color
R_{YB}	84, 120, 115
Decimal	5863508
CIE _{Lab}	47.23, -18.71, 16.27
CIE _{LCh}	47, 24.799, 138.988
Yxy	16.1969, 0.3149, 0.4101
Android (android.graphics.Color)	4284053588 (0xFF597854)
YUV	106.6270, -11.1551, -15.4589
Hunter-Lab	40.2454, -15.2699, 12.1752

Details

The XYZ color **12.4365, 16.1969, 10.8583** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **13.6315, 11.3420, 19.2410**, and the grayscale version is **13.9035, 14.6276, 15.9294**.

A 20% lighter version of the original color is **29.8708, 36.8017, 28.0833**, and **3.5743, 5.1452, 2.7242** is the 20% darker color. If you saturate the color by 10%, you get **11.0833, 15.5495, 8.5482**, and if you desaturate by 10%, it is **14.0104, 16.9497, 13.5998**.

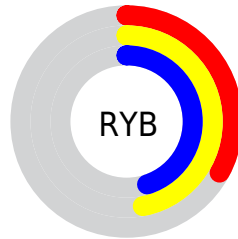
Distribution



Red (35%)

Green (47%)

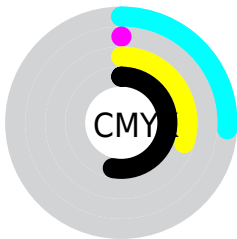
Blue (33%)



Red (33%)

Yellow (47%)

Blue (45%)

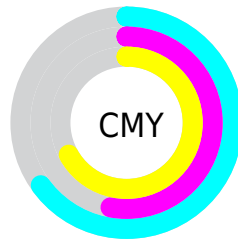


Cyan (26%)

Magenta (0%)

Yellow (30%)

Black (53%)



Cyan (65%)

Magenta (53%)

Yellow (67%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4365, 16.1969, 10.8583 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 12.4365, 16.1969, 10.8583 by changing the saturation by 10% instead.

■ 12.4365, 16.1969,
10.8583

■ 12.4365, 16.1969,
10.8583

200.9855,
230.5008, 207.3952

■ 7.1160, 9.6636,
5.8587

■ 29.8977, 36.9397,
28.0305

■ 3.5817, 5.1765,
2.6919

■ 42.7690, 51.9180,
41.0401

■ 1.4683, 2.3512,
0.9394

■ 58.8880, 70.4800,
57.5568

■ 0.3041, 0.8006,
0.0000

■ 78.6201, 93.0103,
77.9991

■ 0.0000, 0.0000,
0.0000

■ 102.3305,
119.8931, 102.7855

130.3846,

151.5128, 132.3347

163.1478,
188.2539, 167.0651

■ 12.4365, 16.1969,
10.8583

■ 12.4365, 16.1969,
10.8583

■ 11.0833, 15.5495,
8.5482

■ 14.0104, 16.9497,
13.5998

■ 9.9396, 15.0008,
6.6466

■ 15.8128, 17.8101,
16.7921

■ 8.9951, 14.5465,
5.1300


■ 17.8531, 18.7830,
20.4544


■ 8.2384, 14.1813,
3.9721


■ 20.1394, 19.8721,
24.6048


■ 7.6565, 13.8990,
3.1434


■ 22.6795, 21.0811,
29.2602


 7.2351, 13.6931,
2.6095

 25.4810, 22.4137,
34.4370

 6.9420, 13.5497,
2.2495

 28.5511, 23.8731,
40.1504

 31.8967, 25.4626,
46.4154

 35.5244, 27.1853,
53.2462

Harmonies

Analogous

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



14.0675, 16.1969, 8.5279



12.4365, 16.1969, 10.8583



11.6272, 16.1969, 15.4352

Triad

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



12.4365, 16.1969, 10.8583



14.6058, 16.1969, 32.2831



19.7200, 16.1969, 14.0026

Complementary

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



12.4365, 16.1969, 10.8583



13.6315, 11.3420, 19.2410

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.



19.8989, 16.1969, 20.0359



12.4365, 16.1969, 10.8583



16.8028, 16.1969, 31.6391

Square

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



12.4365, 16.1969, 10.8583



12.7984, 16.1969, 28.3648



18.7882, 16.1969, 26.7709



18.3202, 16.1969, 10.0240

Rectangle

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



12.4365, 16.1969, 10.8583



11.6059, 16.1969, 19.5834



18.7882, 16.1969, 26.7709



19.9295, 16.1969, 15.8216

Sweetspot

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



12.4369, 16.1976, 10.8587



28.0754, 31.4496, 30.0052



15.4319, 16.8044, 10.8179



6.5562, 7.4068, 6.9373



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.



12.4369, 16.1976, 10.8587



20.1946, 27.6838, 16.2224



12.5122, 16.1741, 13.6746



3.9979, 4.4742, 4.2774



7.5648, 14.7770, 2.4535



35.6469, 70.2621, 11.6832

Inverse Universe

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



13.6315, 11.3420, 19.2410



22.6490, 17.6886, 33.4736



13.5916, 11.4041, 15.5060



4.1024, 4.0507, 5.0088



9.8342, 4.6425, 19.7631



46.3750, 21.8692, 94.2467

Previews

White Background



This preview shows how the XYZ color 12.4365, 16.1969, 10.8583 looks on a white background.

Color Contrast Check

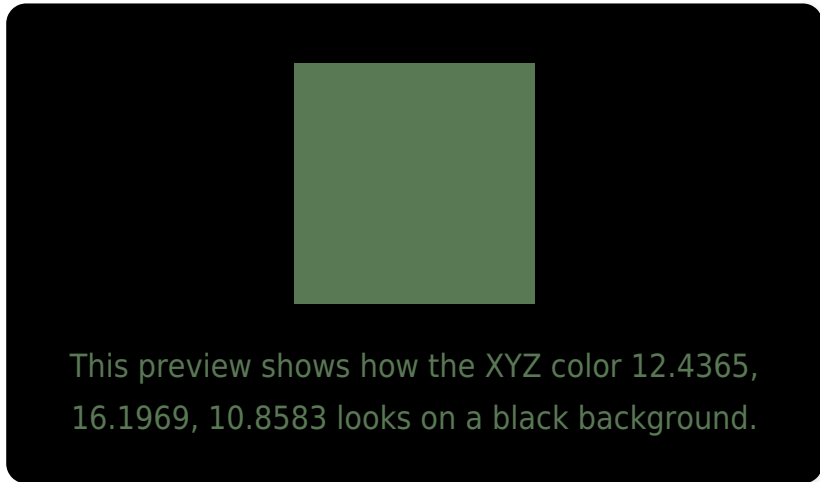
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



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 12.4365, 16.1969, 10.8583

Background



This preview shows how black text looks on a background with the XYZ color 12.4365, 16.1969, 10.8583.



This preview shows how white text looks on a background with the XYZ color 12.4365, 16.1969,

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

12.4365, 16.1969, 10.8583

Protanopia

14.9879, 16.1606, 9.9188

Deuteranopia

16.3381, 16.0288, 11.2496



Tritanopia

14.5927, 16.2035, 21.4273

Trichromacy



Original Color

12.4365, 16.1969, 10.8583

Protanomaly

13.9226, 16.1068, 10.1597

Deuteranomaly

14.6763, 15.9732, 11.1137

Tritanomaly

13.6358, 16.1539, 16.8673

Monochromacy



Original Color

12.4365, 16.1969, 10.8583

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.3018, 15.1985, 14.0369

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4365, 16.1969, 10.8583 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(89, 120, 84)` looks like.

```
.text, #text, p{  
    color:rgb(89, 120, 84)  
}
```

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(89, 120, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 120, 84) }
```

Border

The CSS property to change the border of an element to XYZ 12.4365, 16.1969, 10.8583 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(89, 120, 84) }
```


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

```
.border{ border-color:rgb(89, 120, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 120, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 120, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 120, 84);  
box-shadow:4px 4px 4px 4px rgb(89, 120,  
84) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4365, 16.1969, 10.8583 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 120, 84) }
```

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

```
.background{ background-color: rgb(89, 120,  
84) }
```

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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