

Converting Colors

XYZ(12.7925, 19.0611, 12.1138)

Have a look what the booklet for
XYZ(12.7925, 19.0611, 12.1138)
contains.

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Color

**XYZ(12.7712, 19.0404,
12.0189)**

Conversions

Conversions Part 1

Format	Color
Hex	468657
RGB	70, 134, 87
RGB Percent	27%, 53%, 34%
CMY	0.7255, 0.4745, 0.6588
CMYK	0.48, 0.00, 0.35, 0.47
HSL	136°, 31%, 40%
HSV	136°, 48%, 53%
XYZ	12.7712, 19.0404, 12.0189
YIQ	109.5060, -23.0570, -28.1850

Conversions

Conversions Part 2

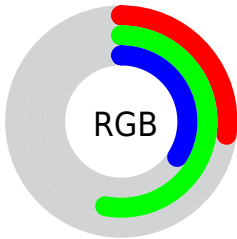
Format	Color
R_{YB}	70, 121, 134
Decimal	4621911
CIE _{Lab}	50.73, -31.55, 19.12
CIE _{LCh}	51, 36.894, 148.786
Yxy	19.0404, 0.2914, 0.4344
Android (android.graphics.Color)	4282811991 (0xFF468657)
YUV	109.5060, -11.0955, -34.6468
Hunter-Lab	43.6353, -24.1183, 14.2139

Details

The XYZ color **12.7712, 19.0404, 12.0189** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **15.2332, 10.7334, 18.0992**, and the grayscale version is **14.7155, 15.4819, 16.8597**.

A 20% lighter version of the original color is **30.5246, 41.9102, 30.1476**, and **3.7517, 6.5941, 3.1729** is the 20% darker color. If you saturate the color by 10%, you get **11.5354, 18.4472, 10.0036**, and if you desaturate by 10%, it is **14.2786, 19.7684, 14.3339**.

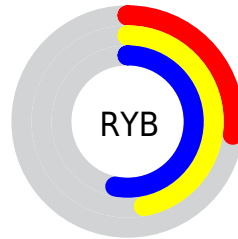
Distribution



Red (27%)

Green (53%)

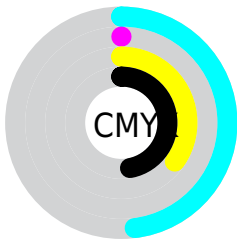
Blue (34%)



Red (27%)

Yellow (47%)

Blue (53%)

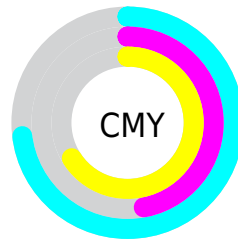


Cyan (48%)

Magenta (0%)

Yellow (35%)

Black (47%)



Cyan (73%)

Magenta (47%)

Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7712, 19.0404, 12.0189 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 12.7712, 19.0404, 12.0189 by changing the saturation by 10% instead.

■ 12.7712, 19.0404,
12.0189

■ 12.7712, 19.0404,
12.0189

203.1134,
246.6717, 215.5127

■ 7.3471, 11.6995,
6.6339

■ 30.4969, 41.8024,
30.1944

■ 3.7284, 6.5394,
3.1592

■ 43.5293, 57.9922,
43.8220

■ 1.5496, 3.1757,
1.1765

■ 59.8284, 77.9004,
61.0342

■ 0.3592, 1.2242,
0.0000

■ 79.7597, 101.9115,
82.2495

■ 0.0000, 0.0813,
0.0000

■ 103.6885,
130.4097, 107.8864

■ 0.0000, 0.0000,
0.0000

131.9802,

163.7796, 138.3636

165.0000,
202.4054, 174.0995

■ 12.7712, 19.0404,
12.0189

■ 12.7712, 19.0404,
12.0189

■ 11.5354, 18.4472,
10.0036

■ 14.2786, 19.7684,
14.3339

■ 10.5529, 17.9779,
8.2745

■ 16.0713, 20.6363,
16.9588

■ 9.8056, 17.6241,
6.8188

■ 18.1640, 21.6521,
19.9052

■ 9.2721, 17.3750,
5.6223

■ 20.5698, 22.8222,
23.1833

■ 8.9096, 17.2089,
4.6687

■ 23.3010, 24.1529,
26.8031

■ 8.8377, 17.1758,
4.4862

■ 26.3693, 25.6500,
30.7742

■ 29.7859, 27.3190,
35.1057

■ 33.5613, 29.1651,
39.8064

■ 37.7056, 31.1935,
44.8847

Harmonies

Analogous

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



14.9469, 19.0404, 7.7050



12.7712, 19.0404, 12.0189



11.9899, 19.0404, 20.3122

Triad

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



12.7712, 19.0404, 12.0189



17.9502, 19.0404, 47.7455



24.9121, 19.0404, 12.5348

Complementary

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



12.7712, 19.0404, 12.0189



15.2332, 10.7334, 18.0992

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.



25.9903, 19.0404, 21.1570



12.7712, 19.0404, 12.0189



21.6620, 19.0404, 43.5825

Square

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



12.7712, 19.0404, 12.0189



14.7231, 19.0404, 42.8930



24.7300, 19.0404, 32.8795



21.9512, 19.0404, 7.9254

Rectangle

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



12.7712, 19.0404, 12.0189



12.2729, 19.0404, 27.8403



24.7300, 19.0404, 32.8795



25.5229, 19.0404, 14.9496

Sweetspot

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



12.7717, 19.0412, 12.0193



33.4020, 38.8278, 36.9970



17.1025, 21.3448, 9.0131



7.3537, 8.6642, 8.0997



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.7717, 19.0412, 12.0193



20.2278, 32.4550, 17.4630



14.3215, 19.6611, 20.1804



4.6634, 5.2236, 5.2385



8.2859, 16.0972, 4.2252



0.0314, 0.0568, 0.0288

Inverse Universe

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



15.2332, 10.7334, 18.0992



25.0866, 16.0140, 29.4328



13.7019, 10.1209, 10.0358



4.8065, 4.7423, 5.5933



11.3022, 5.5852, 11.4297



0.0422, 0.0206, 0.0555

Previews

White Background



This preview shows how the XYZ color 12.7712, 19.0404, 12.0189 looks on a white background.

Color Contrast Check

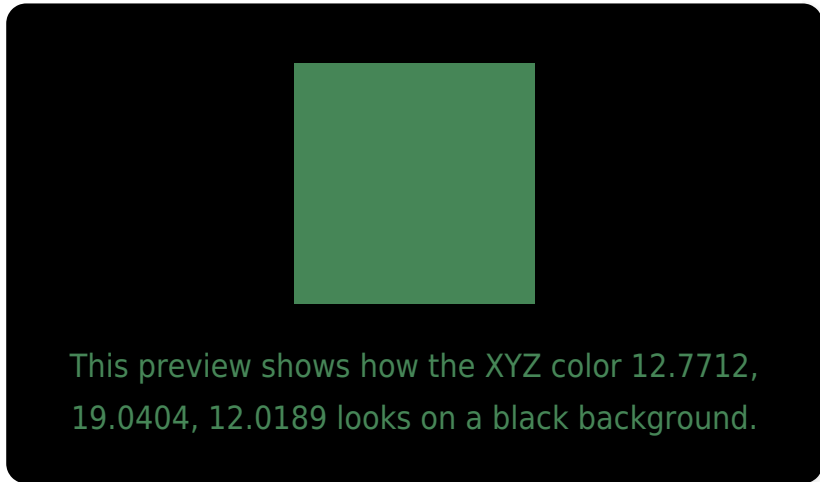
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.7712, 19.0404, 12.0189

Background



This preview shows how black text looks on a background with the XYZ color 12.7712, 19.0404, 12.0189.



This preview shows how white text looks on a background with the XYZ color 12.7712, 19.0404,

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

12.7712, 19.0404, 12.0189

Protanopia

17.4076, 18.7728, 10.4906

Deuteranopia

19.0036, 18.6795, 12.5014



Tritanopia

15.7863, 19.0672, 26.8931

Trichromacy



Original Color

12.7712, 19.0404, 12.0189

Protanomaly

15.0793, 18.4799, 10.9558

Deuteranomaly

15.8752, 18.3021, 12.3688

Tritanomaly

14.4543, 18.9169, 20.3423

Monochromacy



Original Color

12.7712, 19.0404, 12.0189

Achromatopsia

14.8208, 15.5926, 16.9804

Achromatomaly

13.7144, 16.5859, 15.0489

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7712, 19.0404, 12.0189 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(70, 134, 87)` looks like.

```
.text, #text, p{  
    color:rgb(70, 134, 87)  
}
```

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(70, 134, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 134, 87) }
```

Border

The CSS property to change the border of an element to XYZ 12.7712, 19.0404, 12.0189 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(70, 134, 87) }
```


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

```
.border{ border-color:rgb(70, 134, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 134, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 134, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 134, 87);  
box-shadow:4px 4px 4px 4px rgb(70, 134,  
87) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7712, 19.0404, 12.0189 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 134, 87) }
```

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

```
.background{ background-color: rgb(70, 134,  
87) }
```

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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