

Converting Colors

XYZ(12.3144, 12.8014, 5.2222)

Have a look what the booklet for
XYZ(12.3144, 12.8014, 5.2222)
contains.

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Color

**XYZ(12.2127, 12.7054,
5.1769)**

Conversions

Conversions Part 1

Format	Color
Hex	746235
RGB	116, 98, 53
RGB Percent	45%, 38%, 21%
CMY	0.5451, 0.6157, 0.7922
CMYK	0.00, 0.16, 0.54, 0.55
HSL	43°, 37%, 33%
HSV	43°, 54%, 45%
XYZ	12.2127, 12.7054, 5.1769
YIQ	98.2520, 25.1730, -10.1790

Conversions

Conversions Part 2

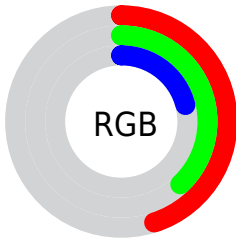
Format	Color
R_{YB}	78, 116, 53
Decimal	7627317
CIE Lab	42.32, 0.94, 28.09
CIE LCh	42, 28.106, 88.075
Yxy	12.7054, 0.4058, 0.4222
Android (android.graphics.Color)	4285817397 (0xFF746235)
YUV	98.2520, -22.3092, 15.5650
Hunter-Lab	35.6446, -1.2198, 16.3402

Details

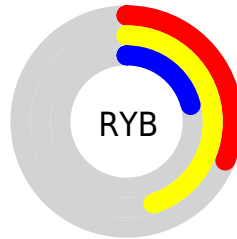
The XYZ color **12.2127, 12.7054, 5.1769** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **6.8737, 6.5240, 17.4198**, and the grayscale version is **11.7220, 12.3325, 13.4301**.

A 20% lighter version of the original color is **29.6740, 30.9805, 16.7278**, and **3.5131, 3.6296, 0.7164** is the 20% darker color. If you saturate the color by 10%, you get **11.6740, 12.0045, 3.8366**, and if you desaturate by 10%, it is **12.8295, 13.4590, 6.8624**.

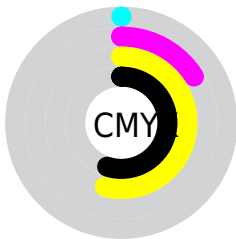
Distribution



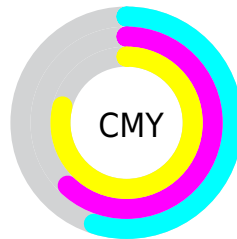
- Red (45%)
- Green (38%)
- Blue (21%)



- Red (31%)
- Yellow (45%)
- Blue (21%)



- Cyan (0%)
- Magenta (16%)
- Yellow (54%)
- Black (55%)



- Cyan (55%)
- Magenta (62%)
- Yellow (79%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2127, 12.7054, 5.1769 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 12.2127, 12.7054, 5.1769 by changing the saturation by 10% instead.

■ 12.2127, 12.7054,
5.1769

■ 12.2127, 12.7054,
5.1769

199.5497,
209.0209, 160.5248

■ 6.9619, 7.2260,
2.2909

■ 29.4954, 30.7735,
16.6441

■ 3.4844, 3.6038,
0.7261

■ 42.2581, 44.1310,
26.0623

■ 1.4148, 1.4545,
0.0000

■ 58.2554, 60.8833,
38.4950

■ 0.2667, 0.2564,
0.0000

■ 77.8528, 81.4148,
54.3608

■ 0.0000, 0.0000,
0.0000

■ 101.4155,
106.1099, 74.0781

■ 129.3090,

135.3531, 98.0655

161.8986,
169.5286, 126.7415

■ 12.2127, 12.7054,
5.1769

■ 12.2127, 12.7054,
5.1769

■ 11.6740, 12.0045,
3.8366

■ 12.8295, 13.4590,
6.8624

■ 11.2075, 11.3523,
2.8156

■ 13.5279, 14.2656,
8.9148

■ 10.8081, 10.7470,
2.0857

■ 14.3123, 15.1276,
11.3550

■ 10.4673, 10.1849,
1.6038

■ 15.1864, 16.0468,
14.2021

■ 10.2851, 9.8785,
1.3647

■ 16.1537, 17.0247,
17.4740

■ 17.2175, 18.0629,
21.1873

■ 18.3811, 19.1629,
25.3579

■ 19.6473, 20.3262,
30.0009

■ 21.0190, 21.5540,
35.1306

Harmonies

Analogous

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



14.3474, 12.7054, 6.1389



12.2127, 12.7054, 5.1769



10.2682, 12.7054, 5.9149

Triad

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



12.2127, 12.7054, 5.1769



8.8429, 12.7054, 20.0437



15.8508, 12.7054, 20.9205

Complementary

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



12.2127, 12.7054, 5.1769



6.8737, 6.5240, 17.4198

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.



14.0846, 12.7054, 26.8026



12.2127, 12.7054, 5.1769



10.0581, 12.7054, 26.2014

Square

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



12.2127, 12.7054, 5.1769



8.4631, 12.7054, 13.4479



11.9405, 12.7054, 28.9698



16.5940, 12.7054, 14.2274

Rectangle

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



12.2127, 12.7054, 5.1769



9.3060, 12.7054, 7.4401



11.9405, 12.7054, 28.9698



15.3477, 12.7054, 23.1235

Sweetspot

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



12.2130, 12.7060, 5.1772



26.3598, 27.8605, 23.8551



9.6420, 6.7259, 6.9040



6.2288, 6.5843, 5.4950



57.3938, 60.3827, 65.7568



6.9614, 7.3239, 7.9757

Same Dimension

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



12.2130, 12.7060, 5.1772



20.3183, 20.8265, 6.2760



12.5274, 15.6550, 5.7298



3.8825, 4.0980, 3.9286



11.5263, 11.0539, 1.5261



55.4112, 52.3509, 7.1843

Inverse Universe

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



6.8737, 6.5240, 17.4198



9.9039, 8.7887, 30.2189



6.6455, 4.9517, 17.1283



3.5780, 3.7446, 4.6244



4.1377, 2.6151, 18.8292



19.5176, 11.4517, 91.5420

Previews

White Background



This preview shows how the XYZ color 12.2127, 12.7054, 5.1769 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 12.2127, 12.7054, 5.1769 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 12.2127, 12.7054, 5.1769

Background



This preview shows how black text looks on a background with the XYZ color 12.2127, 12.7054, 5.1769.



This preview shows how white text looks on a background with the XYZ color 12.2127, 12.7054,

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

12.2127, 12.7054, 5.1769

Protanopia

11.6534, 12.6957, 5.3263

Deuteranopia

12.7841, 12.5883, 5.2460



Tritanopia

13.9603, 12.7419, 13.7802

Trichromacy



Original Color

12.2127, 12.7054, 5.1769

Protanomaly

11.8098, 12.6348, 5.3063

Deuteranomaly

12.5945, 12.6252, 5.2631

Tritanomaly

13.2613, 12.7309, 9.9420

Monochromacy



Original Color

12.2127, 12.7054, 5.1769

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.7164, 12.3478, 9.7485

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2127, 12.7054, 5.1769 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(116, 98, 53)` looks like.

```
.text, #text, p{  
    color:rgb(116, 98, 53)  
}
```

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(116, 98, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 98, 53) }
```

Border

The CSS property to change the border of an element to XYZ 12.2127, 12.7054, 5.1769 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(116, 98, 53) }
```


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

```
.border{ border-color:rgb(116, 98, 53) }
```

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

Here you see how a box with a 4 pixel rgb(116, 98, 53) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 98, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 98, 53);  
box-shadow:4px 4px 4px 4px rgb(116, 98,  
53) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2127, 12.7054, 5.1769 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 98, 53) }
```

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

```
.background{ background-color: rgb(116, 98,  
53) }
```

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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