

Converting Colors

XYZ(12.7523, 12.9404, 16.4008)

Have a look what the booklet for
XYZ(12.7523, 12.9404, 16.4008)
contains.

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Color

**XYZ(12.7016, 12.8526,
16.2793)**

Conversions

Conversions Part 1

Format	Color
Hex	66636D
RGB	102, 99, 109
RGB Percent	40%, 39%, 43%
CMY	0.6000, 0.6118, 0.5725
CMYK	0.06, 0.09, 0.00, 0.57
HSL	258°, 5%, 41%
HSV	258°, 9%, 43%
XYZ	12.7016, 12.8526, 16.2793
YIQ	101.0370, -1.4220, 3.7460

Conversions

Conversions Part 2

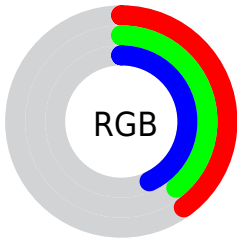
Format	Color
R_{YB}	102, 99, 109
Decimal	6710125
CIE Lab	42.54, 3.30, -5.22
CIE LCh	43, 6.175, 302.306
Yxy	12.8526, 0.3036, 0.3072
Android (android.graphics.Color)	4284900205 (0xFF66636D)
YUV	101.0370, 3.9258, 0.8446
Hunter-Lab	35.8505, 0.5029, -1.8275

Details

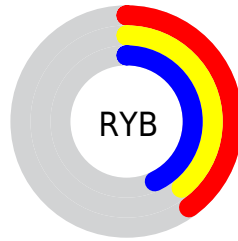
The XYZ color **12.7016, 12.8526, 16.2793** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.6652, 14.9026, 13.9613**, and the grayscale version is **12.3699, 13.0141, 14.1724**.

A 20% lighter version of the original color is **30.3884, 31.1231, 37.6634**, and **3.7182, 3.7062, 5.0768** is the 20% darker color. If you saturate the color by 10%, you get **10.9125, 10.4997, 15.9196**, and if you desaturate by 10%, it is **14.7105, 15.5265, 16.6897**.

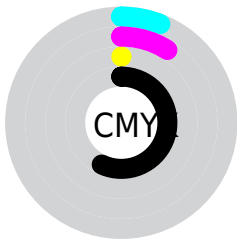
Distribution



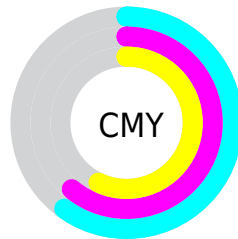
- Red (40%)
- Green (39%)
- Blue (43%)



- Red (40%)
- Yellow (39%)
- Blue (43%)



- Cyan (6%)
- Magenta (9%)
- Yellow (0%)
- Black (57%)



- Cyan (60%)
- Magenta (61%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7016, 12.8526, 16.2793 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 12.7016, 12.8526, 16.2793 by changing the saturation by 10% instead.

■ 12.7016, 12.8526,
16.2793

■ 12.7016, 12.8526,
16.2793

202.6728,
209.9708, 242.8859

■ 7.2990, 7.3271,
9.5655

■ 30.3725, 31.0387,
37.8559

■ 3.6978, 3.6675,
5.0100

■ 43.3716, 44.4682,
53.5558

■ 1.5326, 1.4894,
2.1943

■ 59.6334, 61.3010,
73.0882

■ 0.3479, 0.2812,
0.6711

■ 79.5235, 81.9217,
96.8716

■ 0.0000, 0.0000,
0.0000

103.4071,
106.7147, 125.3245

131.6496,

136.0642, 158.8655

164.6164,
170.3548, 197.9131

■ 12.7016, 12.8526,
16.2793

■ 12.7016, 12.8526,
16.2793

■ 10.9125, 10.4997,
15.9196

■ 14.7105, 15.5265,
16.6897

■ 9.3343, 8.4539,
15.6079

■ 16.9455, 18.5313,
17.1519

■ 7.9594, 6.7028,
15.3424

■ 19.4137, 21.8784,
17.6679

■ 6.7791, 5.2324,
15.1208

■ 22.1218, 25.5783,
18.2393

■ 5.7839, 4.0278,
14.9407

■ 25.0763, 29.6410,
18.8678

■ 4.9637, 3.0724,
14.7996

■ 28.2832, 34.0761,
19.5548

■ 4.3072, 2.3477,
14.6943

■ 31.7485, 38.8928,
20.3019

■ 3.8017, 1.8326,
14.6215

■ 35.4778, 44.1001,
21.1104

■ 3.4074, 1.4522,
14.5689

■ 39.4767, 49.7065,
21.9818

Harmonies

Analogous

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



12.2521, 12.8526, 16.7207



12.7016, 12.8526, 16.2793



13.0274, 12.8526, 15.2222

Triad

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



12.7016, 12.8526, 16.2793



12.6376, 12.8526, 11.8411



11.3417, 12.8526, 14.0979

Complementary

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



12.7016, 12.8526, 16.2793



13.6652, 14.9026, 13.9613

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.



11.4390, 12.8526, 12.8343



12.7016, 12.8526, 16.2793



12.1800, 12.8526, 11.5817

Square

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



12.7016, 12.8526, 16.2793



12.9898, 12.8526, 12.6660



11.7430, 12.8526, 11.9338



11.4736, 12.8526, 15.4123

Rectangle

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



12.7016, 12.8526, 16.2793



13.1265, 12.8526, 14.3410



11.7430, 12.8526, 11.9338



11.3487, 12.8526, 13.6532

Sweetspot

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



12.7020, 12.8531, 16.2796



24.8871, 25.8606, 29.5871



13.0776, 14.0996, 16.5004



5.7331, 5.9403, 6.8732



54.2243, 57.0482, 62.1254



6.0569, 6.3724, 6.9395

Same Dimension

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



12.7020, 12.8531, 16.2796



22.0288, 22.0692, 29.0060



13.2660, 13.1439, 16.3060



3.0259, 3.0651, 3.8670



3.9275, 1.6517, 17.0341



19.2288, 8.0124, 86.7593

Inverse Universe

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



13.3705, 13.2161, 15.4827



23.4883, 22.8619, 27.2539



13.1067, 14.6148, 13.9352



3.1808, 3.1492, 3.6825



8.9045, 4.4139, 8.3914



44.9756, 22.3322, 40.6697

Previews

White Background



This preview shows how the XYZ color 12.7016, 12.8526, 16.2793 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 12.7016, 12.8526, 16.2793 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

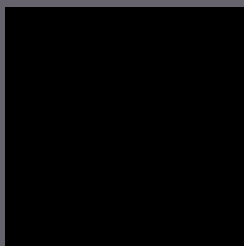
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

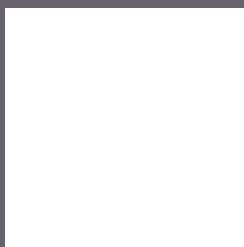
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.7016, 12.8526, 16.2793

Background



This preview shows how black text looks on a background with the XYZ color 12.7016, 12.8526, 16.2793.



This preview shows how white text looks on a background with the XYZ color 12.7016, 12.8526,

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

12.7016, 12.8526, 16.2793

Protanopia

12.5730, 12.9278, 16.3006

Deuteranopia

13.0719, 12.9037, 16.2697



Tritanopia

12.5952, 12.8100, 15.7187

Trichromacy



Original Color

12.7016, 12.8526, 16.2793

Protanomaly

12.6843, 12.9852, 16.3059

Deuteranomaly

12.9537, 12.8427, 16.2642

Tritanomaly

12.6481, 12.8312, 15.9974

Monochromacy



Original Color

12.7016, 12.8526, 16.2793

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.4227, 12.8805, 14.9281

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7016, 12.8526, 16.2793 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(102, 99, 109)` looks like.

```
.text, #text, p{  
    color:rgb(102, 99, 109)  
}
```

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(102, 99, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 99, 109) }
```

Border

The CSS property to change the border of an element to XYZ 12.7016, 12.8526, 16.2793 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(102, 99, 109) }
```


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

```
.border{ border-color:rgb(102, 99, 109) }
```

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

Here you see how a box with a 4 pixel rgb(102, 99, 109) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 99, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 99, 109);  
box-shadow:4px 4px 4px 4px rgb(102, 99,  
109) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7016, 12.8526, 16.2793 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 99, 109) }
```

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

```
.background{ background-color: rgb(102, 99,  
109) }
```

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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