

Converting Colors

XYZ(12.8098, 12.8600, 16.4592)

Have a look what the booklet for
XYZ(12.8098, 12.8600, 16.4592)
contains.

XYZ(12.8698, 12.9330, 16.5699)	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(12.8698, 12.9330,
16.5699)**

Conversions

Conversions Part 1

Format	Color
Hex	67636E
RGB	103, 99, 110
RGB Percent	40%, 39%, 43%
CMY	0.5961, 0.6118, 0.5686
CMYK	0.06, 0.10, 0.00, 0.57
HSL	262°, 5%, 41%
HSV	262°, 10%, 43%
XYZ	12.8698, 12.9330, 16.5699
YIQ	101.4500, -1.1470, 4.2690

Conversions

Conversions Part 2

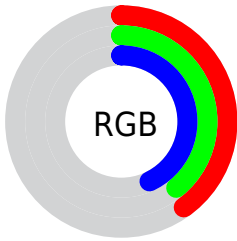
Format	Color
R_{YB}	103, 99, 110
Decimal	6775662
CIE _{Lab}	42.66, 3.90, -5.64
CIE _{LCh}	43, 6.854, 304.668
Yxy	12.9330, 0.3037, 0.3052
Android (android.graphics.Color)	4284965742 (0xFF67636E)
YUV	101.4500, 4.2151, 1.3593
Hunter-Lab	35.9625, 0.9450, -2.1444

Details

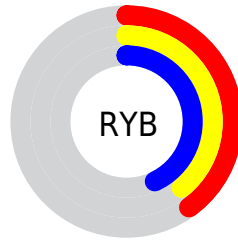
The XYZ color **12.8698, 12.9330, 16.5699** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.7724, 15.1173, 13.9970**, and the grayscale version is **12.4760, 13.1257, 14.2939**.

A 20% lighter version of the original color is **30.7544, 31.2914, 38.6013**, and **3.7735, 3.7348, 5.0794** is the 20% darker color. If you saturate the color by 10%, you get **11.1282, 10.5924, 16.2101**, and if you desaturate by 10%, it is **14.8214, 15.5933, 16.9807**.

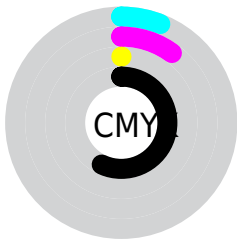
Distribution



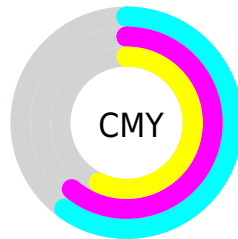
- Red (40%)
- Green (39%)
- Blue (43%)



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



- Cyan (6%)
- Magenta (10%)
- Yellow (0%)
- Black (57%)



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

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8698, 12.9330, 16.5699 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 12.8698, 12.9330, 16.5699 by changing the saturation by 10% instead.

■ 12.8698, 12.9330,
16.5699

■ 12.8698, 12.9330,
16.5699

203.7360,
210.4878, 244.6410

■ 7.4153, 7.3824,
9.7696

■ 30.6730, 31.1834,
38.3653

■ 3.7718, 3.7024,
5.1429

■ 43.7524, 44.6519,
54.1974

■ 1.5739, 1.5085,
2.2711

■ 60.1042, 61.5286,
73.8773

■ 0.3753, 0.2947,
0.7150

■ 80.0937, 82.1979,
97.8233

■ 0.0000, 0.0000,
0.0000

104.0863,
107.0440, 126.4542

132.4473,

136.4514, 160.1884

165.5421,
170.8046, 199.4445

■ 12.8698, 12.9330,
16.5699

■ 12.8698, 12.9330,
16.5699

■ 11.1282, 10.5924,
16.2101

■ 14.8214, 15.5933,
16.9807

■ 9.5882, 8.5576,
15.8985

■ 16.9887, 18.5833,
17.4436

■ 8.2423, 6.8162,
15.6333

■ 19.3790, 21.9145,
17.9606

■ 7.0821, 5.3541,
15.4123

■ 21.9983, 25.5973,
18.5334

■ 6.0988, 4.1561,
15.2329

■ 24.8530, 29.6418,
19.1636

■ 5.2825, 3.2055,
15.0924

■ 27.9487, 34.0576,
19.8528

■ 4.6223, 2.4837,
14.9879

■ 31.2911, 38.8540,
20.6024

■ 4.1061, 1.9693,
14.9158

■ 34.8857, 44.0398,
21.4139

■ 3.6892, 1.5767,
14.8620

■ 38.7377, 49.6237,
22.2887

Harmonies

Analogous

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



12.3740, 12.9330, 17.1320



12.8698, 12.9330, 16.5699



13.2182, 12.9330, 15.3425

Triad

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



12.8698, 12.9330, 16.5699



12.7251, 12.9330, 11.6497



11.3229, 12.9330, 14.3161

Complementary

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



12.8698, 12.9330, 16.5699



13.7724, 15.1173, 13.9970

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.



11.4109, 12.9330, 12.8922



12.8698, 12.9330, 16.5699



12.2113, 12.9330, 11.4171

Square

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



12.8698, 12.9330, 16.5699



13.1330, 12.9330, 12.5155



11.7326, 12.9330, 11.8562



11.4885, 12.9330, 15.7737

Rectangle

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



12.8698, 12.9330, 16.5699



13.3148, 12.9330, 14.3495



11.7326, 12.9330, 11.8562



11.3238, 12.9330, 13.8175

Sweetspot

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



12.8702, 12.9335, 16.5702



24.9331, 25.8843, 29.5893



13.1300, 14.1179, 16.7851



5.7461, 5.9470, 6.8738



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.



12.8702, 12.9335, 16.5702



21.8598, 21.7100, 28.9455



13.5037, 13.2602, 16.5998



3.3215, 3.3540, 4.2265



4.4013, 1.8784, 17.8522



21.0511, 8.9066, 88.8888

Inverse Universe

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



13.4942, 13.2799, 15.4884



23.1957, 22.4516, 26.6168



13.1562, 14.7996, 13.9682



3.4654, 3.4339, 3.9777



9.0392, 4.5081, 7.2826



44.6040, 22.2869, 34.0427

Previews

White Background



This preview shows how the XYZ color 12.8698, 12.9330, 16.5699 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 12.8698, 12.9330, 16.5699 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

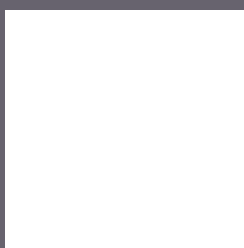
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.8698, 12.9330, 16.5699

Background



This preview shows how black text looks on a background with the XYZ color 12.8698, 12.9330, 16.5699.



This preview shows how white text looks on a background with the XYZ color 12.8698, 12.9330,

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

12.8698, 12.9330, 16.5699

Protanopia

12.6819, 12.9714, 16.8742

Deuteranopia

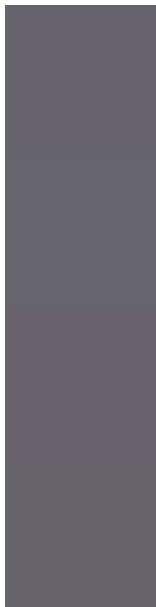
13.1260, 12.9253, 16.5549



Tritanopia

12.7092, 12.8688, 15.7240

Trichromacy



Original Color

12.8698, 12.9330, 16.5699

Protanomaly

12.7932, 13.0287, 16.8794

Deuteranomaly

13.0079, 12.8644, 16.5493

Tritanomaly

12.7621, 12.8900, 16.0027

Monochromacy



Original Color

12.8698, 12.9330, 16.5699

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.5354, 12.9386, 14.9334

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8698, 12.9330, 16.5699 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(103, 99, 110)` looks like.

```
.text, #text, p{  
    color:rgb(103, 99, 110)  
}
```

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(103, 99, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 99, 110) }
```

Border

The CSS property to change the border of an element to XYZ 12.8698, 12.9330, 16.5699 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(103, 99, 110) }
```


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

```
.border{ border-color:rgb(103, 99, 110) }
```

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

Here you see how a box with a 4 pixel rgb(103, 99, 110) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 99, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 99, 110);  
box-shadow:4px 4px 4px 4px rgb(103, 99,  
110) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8698, 12.9330, 16.5699 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 99, 110) }
```

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

```
.background{ background-color: rgb(103, 99,  
110) }
```

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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