

Converting Colors

XYZ(12.3301, 12.3113, 9.8838)

Have a look what the booklet for
XYZ(12.3301, 12.3113, 9.8838)
contains.

XYZ(12.3356, 12.2537, 9.8987)	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(12.3356, 12.2537,
9.8987)**

Conversions

Conversions Part 1

Format	Color
Hex	705F53
RGB	112, 95, 83
RGB Percent	44%, 37%, 33%
CMY	0.5608, 0.6274, 0.6745
CMYK	0.00, 0.15, 0.26, 0.56
HSL	25°, 15%, 38%
HSV	25°, 26%, 44%
XYZ	12.3356, 12.2537, 9.8987
YIQ	98.7150, 13.9840, -0.1280

Conversions

Conversions Part 2

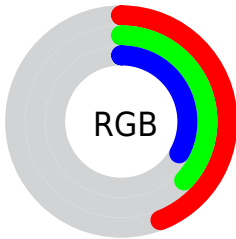
Format	Color
R_{YB}	112, 103, 83
Decimal	7364435
CIE Lab	41.62, 4.80, 9.41
CIE LCh	42, 10.564, 62.960
Yxy	12.2537, 0.3577, 0.3553
Android (android.graphics.Color)	4285554515 (0xFF705F53)
YUV	98.7150, -7.7475, 11.6509
Hunter-Lab	35.0053, 1.6428, 7.7378

Details

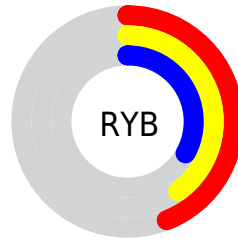
The XYZ color **12.3356, 12.2537, 9.8987** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **11.0489, 12.1228, 17.0868**, and the grayscale version is **11.8047, 12.4195, 13.5248**.

A 20% lighter version of the original color is **29.6001, 29.8093, 26.0235**, and **3.5625, 3.4266, 2.3073** is the 20% darker color. If you saturate the color by 10%, you get **11.3711, 10.9617, 7.6134**, and if you desaturate by 10%, it is **13.4205, 13.6745, 12.5691**.

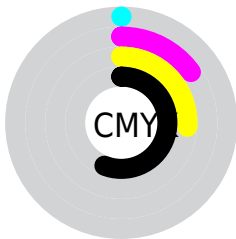
Distribution



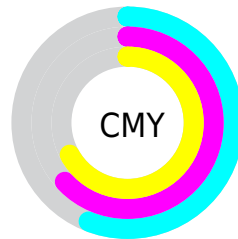
- Red (44%)
- Green (37%)
- Blue (33%)



- Red (44%)
- Yellow (40%)
- Blue (33%)



- Cyan (0%)
- Magenta (15%)
- Yellow (26%)
- Black (56%)





- Cyan (56%)
- Magenta (63%)
- Yellow (67%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3356, 12.2537, 9.8987 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 12.3356, 12.2537, 9.8987 by changing the saturation by 10% instead.


 12.3356, 12.2537,
9.8987


 12.3356, 12.2537,
9.8987

200.3394,
206.0777, 200.4060


 7.0465, 6.9167,
5.2271


 29.7165, 29.9563,
26.2096


 3.5378, 3.4101,
2.3201

 42.5389, 43.0908,
38.6860


 1.4441, 1.3494,
0.7424

 58.6032, 59.5931,
54.6012

 0.2873, 0.1790,
0.0000

 78.2747, 79.8478,
74.3735

 0.0000, 0.0000,
0.0000

 101.9187,
104.2392, 98.4216

129.9005,

133.1517, 127.1640

162.5857,
166.9698, 161.0193

■ 12.3356, 12.2537,
9.8987

■ 12.3356, 12.2537,
9.8987

■ 11.3711, 10.9617,
7.6134

■ 13.4205, 13.6745,
12.5691

■ 10.5215, 9.7930,
5.6944

■ 14.6290, 15.2259,
15.6408

■ 9.7821, 8.7441,
4.1225

■ 15.9657, 16.9121,
19.1297

■ 9.1476, 7.8109,
2.8763

■ 17.4344, 18.7363,
23.0510

■ 8.6124, 6.9888,
1.9320

■ 19.0388, 20.7017,
27.4188

■ 8.1697, 6.2728,
1.2626

■ 20.7824, 22.8114,
32.2467

■ 7.8077, 5.6558,
0.8123

■ 22.6687, 25.0685,
37.5478

■ 7.6730, 5.4266,
0.6430

■ 24.7009, 27.4757,
43.3344

■ 26.8823, 30.0359,
49.6187

Harmonies

Analogous

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



12.9389, 12.2537, 11.1578



12.3356, 12.2537, 9.8987



11.5702, 12.2537, 9.5268

Triad

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



12.3356, 12.2537, 9.8987



10.2247, 12.2537, 13.5632



12.4742, 12.2537, 17.2418

Complementary

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



12.3356, 12.2537, 9.8987



11.0489, 12.1228, 17.0868

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.



11.7237, 12.2537, 18.0605



12.3356, 12.2537, 9.8987



10.4437, 12.2537, 15.7945

Square

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



12.3356, 12.2537, 9.8987



10.3725, 12.2537, 11.4992



10.9841, 12.2537, 17.5039



13.0214, 12.2537, 15.3723

Rectangle

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



12.3356, 12.2537, 9.8987



11.0766, 12.2537, 9.7941



10.9841, 12.2537, 17.5039



12.2362, 12.2537, 17.6578

Sweetspot

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



12.3359, 12.2543, 9.8990



25.1879, 26.0958, 26.1622



12.0951, 10.5593, 13.5591



5.9862, 6.1862, 6.1190



55.7959, 58.7016, 63.9261



6.5000, 6.8385, 7.4471

Same Dimension

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



12.3359, 12.2543, 9.8990



20.6430, 20.1568, 14.9334



13.7227, 15.0279, 10.3612



3.4874, 3.6073, 3.5858



8.8487, 6.2298, 0.7361



43.2695, 29.4143, 3.3970

Inverse Universe

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



11.0489, 12.1228, 17.0868



17.9765, 19.8828, 29.8201



9.8119, 9.6487, 16.6744



3.3648, 3.5949, 4.2707



5.5866, 5.7636, 18.5396



26.9643, 26.9805, 92.0657

Previews

White Background



This preview shows how the XYZ color 12.3356, 12.2537, 9.8987 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 12.3356, 12.2537, 9.8987 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 12.3356, 12.2537, 9.8987

Background



This preview shows how black text looks on a background with the XYZ color 12.3356, 12.2537, 9.8987.

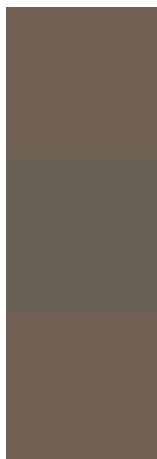


This preview shows how white text looks on a background with the XYZ color 12.3356, 12.2537,

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

12.3356, 12.2537, 9.8987

Protanopia

11.6009, 12.2748, 10.3522

Deuteranopia

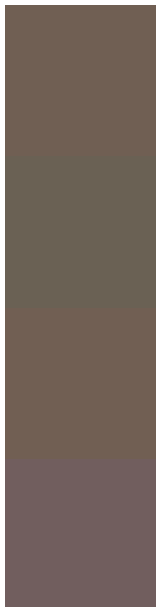
12.4636, 12.3197, 9.9046



Tritanopia

13.1540, 12.3262, 13.7425

Trichromacy



Original Color

12.3356, 12.2537, 9.8987

Protanomaly

11.8188, 12.2537, 10.1298

Deuteranomaly

12.4636, 12.3197, 9.9046

Tritanomaly

12.8331, 12.3243, 12.2921

Monochromacy



Original Color

12.3356, 12.2537, 9.8987

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

12.0524, 12.4687, 12.1274

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3356, 12.2537, 9.8987 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(112, 95, 83)` looks like.

```
.text, #text, p{  
    color:rgb(112, 95, 83)  
}
```

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(112, 95, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 95, 83) }
```

Border

The CSS property to change the border of an element to XYZ 12.3356, 12.2537, 9.8987 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(112, 95, 83) }
```


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

```
.border{ border-color:rgb(112, 95, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 95, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 95, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 95, 83);  
box-shadow:4px 4px 4px 4px rgb(112, 95,  
83) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3356, 12.2537, 9.8987 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 95, 83) }
```

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

```
.background{ background-color: rgb(112, 95,  
83) }
```

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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