

Converting Colors

XYZ(12.8172, 12.4258, 17.6380)

Have a look what the booklet for
XYZ(12.8172, 12.4258, 17.6380)
contains.

XYZ(12.8137, 12.4642, 17.6501)	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(12.8137, 12.4642,
17.6501)**

Conversions

Conversions Part 1

Format	Color
Hex	676072
RGB	103, 96, 114
RGB Percent	40%, 38%, 45%
CMY	0.5961, 0.6235, 0.5529
CMYK	0.10, 0.16, 0.00, 0.55
HSL	263°, 9%, 41%
HSV	263°, 16%, 45%
XYZ	12.8137, 12.4642, 17.6501
YIQ	100.1450, -1.6060, 7.0820

Conversions

Conversions Part 2

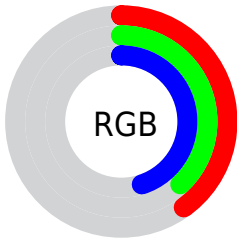
Format	Color
R_{YB}	103, 96, 114
Decimal	6774898
CIE Lab	41.94, 6.62, -9.15
CIE LCh	42, 11.289, 305.889
Yxy	12.4642, 0.2985, 0.2904
Android (android.graphics.Color)	4284964978 (0xFF676072)
YUV	100.1450, 6.8305, 2.5038
Hunter-Lab	35.3047, 3.0027, -4.9280

Details

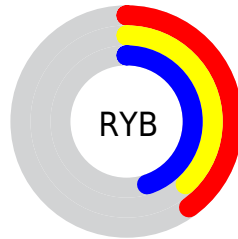
The XYZ color **12.8137, 12.4642, 17.6501** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.1924, 16.0053, 13.4082**, and the grayscale version is **12.1338, 12.7657, 13.9019**.

A 20% lighter version of the original color is **30.4882, 30.1810, 40.2950**, and **3.7549, 3.5153, 5.6349** is the 20% darker color. If you saturate the color by 10%, you get **11.0821, 10.1381, 17.2926**, and if you desaturate by 10%, it is **14.7635, 15.1274, 18.0616**.

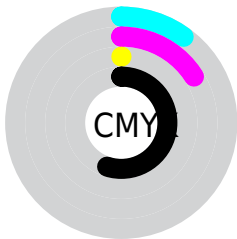
Distribution



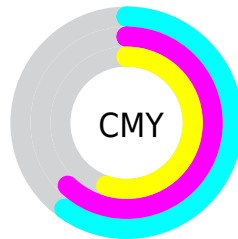
- Red (40%)
- Green (38%)
- Blue (45%)



- Red (40%)
- Yellow (38%)
- Blue (45%)



- Cyan (10%)
- Magenta (16%)
- Yellow (0%)
- Black (55%)



- Cyan (60%)
- Magenta (62%)
- Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8137, 12.4642, 17.6501 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 12.8137, 12.4642, 17.6501 by changing the saturation by 10% instead.

■ 12.8137, 12.4642,
17.6501

■ 12.8137, 12.4642,
17.6501

203.3820,
207.4547, 251.0609

■ 7.3765, 7.0606,
10.5322

■ 30.5729, 30.3378,
40.2460

■ 3.7471, 3.5001,
5.6431

■ 43.6255, 43.5766,
56.5612

■ 1.5601, 1.3980,
2.5640

■ 59.9474, 60.1959,
76.7792

■ 0.3662, 0.2153,
0.8738

■ 79.9038, 80.5802,
101.3186

■ 0.0000, 0.0000,
0.0000

103.8601,
105.1139, 130.5979

132.1817,

134.1812, 165.0357

165.2339,
168.1667, 205.0505

■ 12.8137, 12.4642,
17.6501

■ 12.8137, 12.4642,
17.6501

■ 11.0821, 10.1381,
17.2926

■ 14.7635, 15.1274,
18.0616

■ 9.5595, 8.1338,
16.9860

■ 16.9380, 18.1390,
18.5283

■ 8.2377, 6.4371,
16.7281

■ 19.3449, 21.5119,
19.0524

■ 7.1073, 5.0319,
16.5165

■ 21.9910, 25.2577,
19.6360

■ 6.1585, 3.9011,
16.3482

■ 24.8830, 29.3875,
20.2807

■ 5.3800, 3.0252,
16.2202

■ 28.0272, 33.9120,
20.9883

■ 4.7595, 2.3823,
16.1288

■ 31.4297, 38.8414,
21.7604

■ 4.2741, 1.9299,
16.0670

■ 35.0964, 44.1856,
22.5987

■ 4.0904, 1.7578,
16.0435

■ 39.0331, 49.9541,
23.5047

Harmonies

Analogous

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



12.0124, 12.4642, 18.6812



12.8137, 12.4642, 17.6501



13.3744, 12.4642, 15.5388

Triad

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



12.8137, 12.4642, 17.6501



12.5152, 12.4642, 9.7905



10.3197, 12.4642, 14.0489

Complementary

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



12.8137, 12.4642, 17.6501



14.1924, 16.0053, 13.4082

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.



10.4403, 12.4642, 11.7775



12.8137, 12.4642, 17.6501



11.6828, 12.4642, 9.4903

Square

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



12.8137, 12.4642, 17.6501



13.1965, 12.4642, 11.0492



10.9299, 12.4642, 10.1751



10.5925, 12.4642, 16.4509

Rectangle

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



12.8137, 12.4642, 17.6501



13.5224, 12.4642, 13.9039



10.9299, 12.4642, 10.1751



10.3158, 12.4642, 13.2443

Sweetspot

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



12.8141, 12.4647, 17.6504



26.1832, 26.9127, 31.7902



13.1297, 14.2384, 17.9761



6.0102, 6.1620, 7.3423



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.



12.8141, 12.4647, 17.6504



21.3475, 20.3231, 30.7731



13.8899, 13.0193, 17.7007



3.3289, 3.3578, 4.2269



4.5354, 1.9475, 17.8585



21.6865, 9.2342, 88.9185

Inverse Universe

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



13.7765, 13.0052, 15.6945



23.4003, 21.4766, 26.5684



13.1768, 15.4817, 13.3606



3.4621, 3.4325, 3.9601



8.9356, 4.4666, 6.7367



44.0802, 22.0774, 31.2842

Previews

White Background



This preview shows how the XYZ color 12.8137, 12.4642, 17.6501 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 12.8137, 12.4642, 17.6501 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 12.8137, 12.4642, 17.6501

Background



This preview shows how black text looks on a background with the XYZ color 12.8137, 12.4642, 17.6501.



This preview shows how white text looks on a background with the XYZ color 12.8137, 12.4642,

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

12.8137, 12.4642, 17.6501

Protanopia

12.2861, 12.4600, 17.9771

Deuteranopia

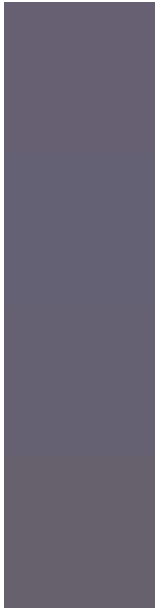
12.7914, 12.5891, 17.6753



Tritanopia

12.3970, 12.5801, 15.1394

Trichromacy



Original Color

12.8137, 12.4642, 17.6501

Protanomaly

12.5148, 12.4398, 17.9612

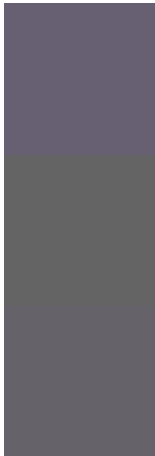
Deuteranomaly

12.7914, 12.5891, 17.6753

Tritanomaly

12.4610, 12.4569, 15.9350

Monochromacy



Original Color

12.8137, 12.4642, 17.6501

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.3785, 12.7103, 15.1655

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8137, 12.4642, 17.6501 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, 96, 114)` looks like.

```
.text, #text, p{  
    color:rgb(103, 96, 114)  
}
```

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, 96, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 96, 114) }
```

Border

The CSS property to change the border of an element to XYZ 12.8137, 12.4642, 17.6501 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, 96, 114) }
```


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

```
.border{ border-color:rgb(103, 96, 114) }
```

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

Here you see how a box with a 4 pixel rgb(103, 96, 114) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 96, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 96, 114);  
box-shadow:4px 4px 4px 4px rgb(103, 96,  
114) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8137, 12.4642, 17.6501 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 96, 114) }
```

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

```
.background{ background-color: rgb(103, 96,  
114) }
```

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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