

Converting Colors

XYZ(12.6289, 16.0913, 19.9656)

Have a look what the booklet for
XYZ(12.6289, 16.0913, 19.9656)
contains.

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Color

**XYZ(12.6448, 16.1044,
19.8948)**

Conversions

Conversions Part 1

Format	Color
Hex	477877
RGB	71, 120, 119
RGB Percent	28%, 47%, 47%
CMY	0.7216, 0.5294, 0.5333
CMYK	0.41, 0.00, 0.01, 0.53
HSL	179°, 26%, 37%
HSV	179°, 41%, 47%
XYZ	12.6448, 16.1044, 19.8948
YIQ	105.2350, -28.8830, -10.6990

Conversions

Conversions Part 2

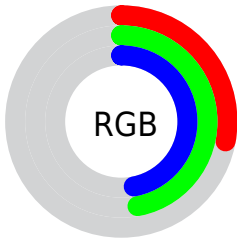
Format	Color
R_{YB}	71, 96, 120
Decimal	4683895
CIE _{Lab}	47.11, -16.78, -4.68
CIE _{LCh}	47, 17.423, 195.572
Yxy	16.1044, 0.2599, 0.3311
Android (android.graphics.Color)	4282873975 (0xFF477877)
YUV	105.2350, 6.7861, -30.0241
Hunter-Lab	40.1303, -13.9838, -1.3021

Details

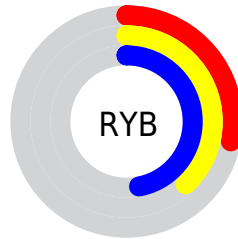
The XYZ color **12.6448, 16.1044, 19.8948** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.1692, 8.9680, 7.2738**, and the grayscale version is **13.4791, 14.1811, 15.4432**.

A 20% lighter version of the original color is **30.1292, 36.5829, 44.0013**, and **3.6591, 5.0999, 6.7527** is the 20% darker color. If you saturate the color by 10%, you get **11.8356, 15.6893, 19.7805**, and if you desaturate by 10%, it is **13.6288, 16.6104, 20.0182**.

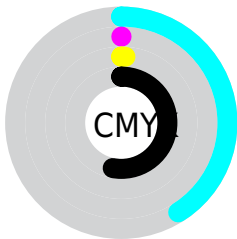
Distribution



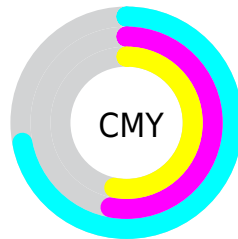
- Red (28%)
- Green (47%)
- Blue (47%)



- Red (28%)
- Yellow (38%)
- Blue (47%)



- Cyan (41%)
- Magenta (0%)
- Yellow (1%)
- Black (53%)



- Cyan (72%)
- Magenta (53%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6448, 16.1044, 19.8948 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 12.6448, 16.1044, 19.8948 by changing the saturation by 10% instead.

■ 12.6448, 16.1044,
19.8948

■ 12.6448, 16.1044,
19.8948

202.3125,
229.9570, 263.9304

■ 7.2597, 9.5981,
12.1353

■ 30.2709, 36.7794,
44.0974

■ 3.6728, 5.1333,
6.7122

■ 43.2427, 51.7168,
61.3775

■ 1.5188, 2.3257,
3.2071

■ 59.4741, 70.2333,
82.6683

■ 0.3385, 0.7872,
1.2013

■ 79.3304, 92.7134,
108.3882

■ 0.0000, 0.0000,
0.0000

■ 103.1771,
119.5414, 138.9559

131.3794,

151.1017, 174.7898

164.3027,
187.7788, 216.3084

■ 12.6448, 16.1044,
19.8948

■ 12.6448, 16.1044,
19.8948

■ 11.8356, 15.6893,
19.7805

■ 13.6288, 16.6104,
20.0182

■ 11.1896, 15.3580,
19.6737

■ 14.7957, 17.2102,
20.1499

■ 10.6957, 15.1051,
19.5742

■ 16.1547, 17.9091,
20.2909

■ 10.3413, 14.9241,
19.4815

■ 17.7140, 18.7112,
20.4414

■ 10.1114, 14.8072,
19.3948

■ 19.4813, 19.6206,
20.6019

■ 9.9601, 14.7307,
19.3182

■ 21.4640, 20.6409,
20.7726

■ 23.6689, 21.7759,
20.9540

■ 26.1028, 23.0289,
21.1462

■ 28.7721, 24.4032,
21.3497

Harmonies

Analogous

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



12.6314, 16.1044, 15.5189



12.6448, 16.1044, 19.8948



13.3389, 16.1044, 24.2643

Triad

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



12.6448, 16.1044, 19.8948



17.5046, 16.1044, 24.1168



16.0513, 16.1044, 10.5771

Complementary

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



12.6448, 16.1044, 19.8948



11.1692, 8.9680, 7.2738

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.



17.4592, 16.1044, 12.1813



12.6448, 16.1044, 19.8948



18.3354, 16.1044, 19.7185

Square

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



12.6448, 16.1044, 19.8948



16.1100, 16.1044, 26.9648



18.3183, 16.1044, 15.3695



14.5307, 16.1044, 10.6082

Rectangle

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



12.6448, 16.1044, 19.8948



14.1224, 16.1044, 26.3765



18.3183, 16.1044, 15.3695



16.5555, 16.1044, 10.9295

Sweetspot

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



12.6453, 16.1050, 19.8952



28.0412, 31.3070, 35.6496



10.5743, 15.2907, 8.3558



6.5872, 7.3895, 8.4427



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.6453, 16.1050, 19.8952



20.8973, 27.6355, 34.8016



10.2763, 11.2703, 19.4037



4.1037, 4.5111, 5.0799



10.8648, 16.0696, 21.0709



51.7857, 76.6373, 100.2960

Inverse Universe

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



11.1692, 8.9680, 7.2738



17.9242, 13.2553, 9.3763



12.8745, 12.4303, 7.6824



4.0013, 4.0162, 4.2046



8.4641, 4.3618, 0.4691



40.3363, 20.7909, 2.0352

Previews

White Background



This preview shows how the XYZ color 12.6448, 16.1044, 19.8948 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 12.6448, 16.1044, 19.8948 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 12.6448, 16.1044, 19.8948

Background



This preview shows how black text looks on a background with the XYZ color 12.6448, 16.1044, 19.8948.



This preview shows how white text looks on a background with the XYZ color 12.6448, 16.1044,

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

12.6448, 16.1044, 19.8948

Protanopia

15.4751, 16.0718, 17.9093

Deuteranopia

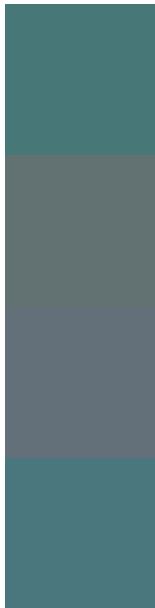
16.2115, 15.9122, 20.6293



Tritanopia

13.3171, 16.2080, 22.8486

Trichromacy



Original Color

12.6448, 16.1044, 19.8948

Protanomaly

14.1488, 15.8691, 18.5370

Deuteranomaly

14.5009, 15.6781, 20.3511

Tritanomaly

13.0462, 16.0908, 21.8203

Monochromacy



Original Color

12.6448, 16.1044, 19.8948

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.9046, 14.6048, 16.8907

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6448, 16.1044, 19.8948 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(71, 120, 119)` looks like.

```
.text, #text, p{  
    color:rgb(71, 120, 119)  
}
```

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(71, 120, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 120, 119) }
```

Border

The CSS property to change the border of an element to XYZ 12.6448, 16.1044, 19.8948 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(71, 120, 119) }
```


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

```
.border{ border-color:rgb(71, 120, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 120, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 120, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 120, 119);  
box-shadow:4px 4px 4px 4px rgb(71, 120,  
119) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6448, 16.1044, 19.8948 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 120, 119) }
```

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

```
.background{ background-color: rgb(71, 120,  
119) }
```

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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