

Converting Colors

XYZ(12.1706, 14.0245, 27.7006)

Have a look what the booklet for
XYZ(12.1706, 14.0245, 27.7006)
contains.

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Color

**XYZ(12.1458, 13.9747,
27.6484)**

Conversions

Conversions Part 1

Format	Color
Hex	396E8E
RGB	57, 110, 142
RGB Percent	22%, 43%, 56%
CMY	0.7764, 0.5686, 0.4431
CMYK	0.60, 0.23, 0.00, 0.44
HSL	203°, 43%, 39%
HSV	203°, 60%, 56%
XYZ	12.1458, 13.9747, 27.6484
YIQ	97.8010, -41.8600, -1.2840

Conversions

Conversions Part 2

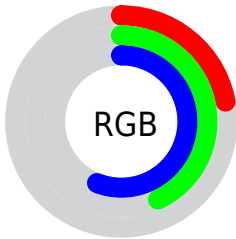
Format	Color
R_{YB}	57, 90, 142
Decimal	3763854
CIE _{Lab}	44.20, -7.62, -22.86
CIE _{LCh}	44, 24.099, 251.558
Yxy	13.9747, 0.2259, 0.2599
Android (android.graphics.Color)	4281953934 (0xFF396E8E)
YUV	97.8010, 21.7901, -35.7825
Hunter-Lab	37.3828, -7.4245, -17.6831

Details

The XYZ color **12.1458, 13.9747, 27.6484** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **15.4669, 13.1918, 5.6027**, and the grayscale version is **11.5156, 12.1153, 13.1936**.

A 20% lighter version of the original color is **29.4397, 33.2057, 57.0823**, and **3.7093, 4.3277, 10.7650** is the 20% darker color. If you saturate the color by 10%, you get **10.8872, 12.4955, 27.4295**, and if you desaturate by 10%, it is **13.6666, 15.6413, 27.8902**.

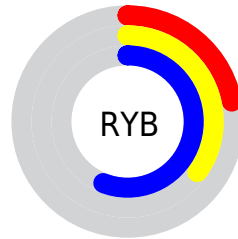
Distribution



Red (22%)

Green (43%)

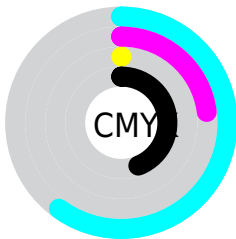
Blue (56%)



Red (22%)

Yellow (35%)

Blue (56%)

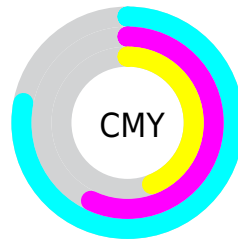


Cyan (60%)

Magenta (23%)

Yellow (0%)

Black (44%)



Cyan (78%)

Magenta (57%)

Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1458, 13.9747, 27.6484 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 12.1458, 13.9747, 27.6484 by changing the saturation by 10% instead.

■ 12.1458, 13.9747,
27.6484

■ 12.1458, 13.9747,
27.6484

■ 199.1184,
217.0734, 304.6419

■ 6.9160, 8.1031,
17.8241

■ 29.3749, 33.0441,
56.9389

■ 3.4555, 4.1610,
10.6556

■ 42.1049, 47.0107,
77.2422

■ 1.3989, 1.7640,
5.7245

■ 58.0657, 64.4444,
101.8755

■ 0.2555, 0.4646,
2.6122

■ 77.6226, 85.7296,
131.2574

■ 0.0000, 0.0000,
0.8988

■ 101.1409,
111.2507, 165.8065

■ 0.0000, 0.0000,
0.0000

128.9861,

141.3921, 205.9412

161.5235,
176.5382, 252.0802

■ 12.1458, 13.9747,
27.6484

■ 12.1458, 13.9747,
27.6484

■ 10.8872, 12.4955,
27.4295

■ 13.6666, 15.6413,
27.8902

■ 9.8693, 11.1909,
27.2313

■ 15.4660, 17.5037,
28.1548

■ 9.0694, 10.0485,
27.0530

■ 17.5605, 19.5718,
28.4436

■ 8.4257, 9.0355,
26.8914

■ 19.9649, 21.8538,
28.7574

■ 8.4167, 9.0214,
26.8891

■ 22.6931, 24.3578,
29.0969

■ 25.7578, 27.0912,
29.4630

■ 29.1713, 30.0610,
29.8563

■ 32.9450, 33.2740,
30.2776

■ 37.0900, 36.7365,
30.7274

Harmonies

Analogous

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



10.7012, 13.9747, 23.3860



12.1458, 13.9747, 27.6484



14.0379, 13.9747, 28.1419

Triad

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



12.1458, 13.9747, 27.6484



17.2484, 13.9747, 13.1897



10.9756, 13.9747, 8.5830

Complementary

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



12.1458, 13.9747, 27.6484



15.4669, 13.1918, 5.6027

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.



12.5547, 13.9747, 7.0149



12.1458, 13.9747, 27.6484



16.2488, 13.9747, 9.2122

Square

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



12.1458, 13.9747, 27.6484



17.1118, 13.9747, 18.8215



14.4881, 13.9747, 7.2133



10.0719, 13.9747, 12.1033

Rectangle

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



12.1458, 13.9747, 27.6484



15.3151, 13.9747, 26.1527



14.4881, 13.9747, 7.2133



11.4382, 13.9747, 7.8534

Sweetspot

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



12.1463, 13.9752, 27.6487



35.8821, 39.1660, 50.7965



13.1293, 20.9236, 12.6162



7.7517, 8.5030, 11.3121



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



12.1463, 13.9752, 27.6487



18.4976, 21.1622, 48.2377



8.6578, 6.9983, 26.4859



5.3920, 5.7797, 6.8602



7.5749, 8.1359, 24.1482



0.0937, 0.1203, 0.2380

Inverse Universe

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



15.4334, 9.8035, 15.8311



25.1646, 14.2610, 23.9192



19.9659, 22.1898, 7.1024



5.5413, 5.4771, 6.3486



11.6266, 5.8077, 8.9509



0.1219, 0.0598, 0.1421

Previews

White Background



This preview shows how the XYZ color 12.1458, 13.9747, 27.6484 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 12.1458, 13.9747, 27.6484 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

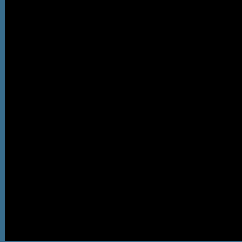
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.1458, 13.9747, 27.6484

Background



This preview shows how black text looks on a background with the XYZ color 12.1458, 13.9747, 27.6484.

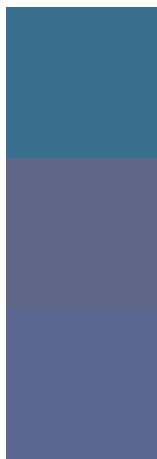


This preview shows how white text looks on a background with the XYZ color 12.1458, 13.9747,

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

12.1458, 13.9747, 27.6484

Protanopia

14.0849, 13.9395, 25.6152

Deuteranopia

14.1987, 13.9383, 28.3276



Tritanopia

10.6992, 13.8687, 20.8519

Trichromacy



Original Color

12.1458, 13.9747, 27.6484

Protanomaly

13.2076, 13.9215, 26.4171

Deuteranomaly

13.3364, 13.9535, 27.9770

Tritanomaly

11.1887, 13.9039, 23.2131

Monochromacy



Original Color

12.1458, 13.9747, 27.6484

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.3559, 12.5566, 17.7447

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1458, 13.9747, 27.6484 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(57, 110, 142)` looks like.

```
.text, #text, p{  
    color:rgb(57, 110, 142)  
}
```

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(57, 110, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(57, 110, 142) }
```

Border

The CSS property to change the border of an element to XYZ 12.1458, 13.9747, 27.6484 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(57, 110, 142) }
```


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

```
.border{ border-color:rgb(57, 110, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(57, 110, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(57, 110, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(57, 110, 142);  
box-shadow:4px 4px 4px 4px rgb(57, 110,  
142) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1458, 13.9747, 27.6484 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(57, 110, 142) }
```

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

```
.background{ background-color: rgb(57, 110,  
142) }
```

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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