

Converting Colors

XYZ(12.2553, 16.5005, 18.3710)

Have a look what the booklet for
XYZ(12.2553, 16.5005, 18.3710)
contains.

XYZ(12.2346, 16.4708, 18.4539)	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(12.2346, 16.4708,
18.4539)**

Conversions

Conversions Part 1

Format	Color
Hex	407B72
RGB	64, 123, 114
RGB Percent	25%, 48%, 45%
CMY	0.7490, 0.5176, 0.5529
CMYK	0.48, 0.00, 0.07, 0.52
HSL	171°, 32%, 37%
HSV	171°, 48%, 48%
XYZ	12.2346, 16.4708, 18.4539
YIQ	104.3330, -32.2750, -15.3070

Conversions

Conversions Part 2

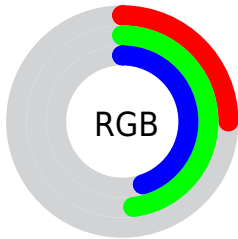
Format	Color
RYB	64, 96, 123
Decimal	4225906
CIELab	47.59, -21.62, -1.05
CIElCh	48, 21.647, 182.779
Yxy	16.4708, 0.2594, 0.3493
Android (android.graphics.Color)	4282415986 (0xFF407B72)
YUV	104.3330, 4.7658, -35.3720
Hunter-Lab	40.5842, -17.2115, 1.4494




Details

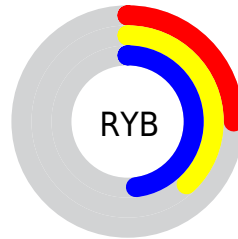
The XYZ color **12.2346, 16.4708, 18.4539** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.2050, 8.3593, 7.3270**, and the grayscale version is **13.2416, 13.9312, 15.1711**.




A 20% lighter version of the original color is **29.6107, 37.5168, 41.7572**, and **3.4947, 5.3232, 5.9975** is the 20% darker color. If you saturate the color by 10%, you get **11.4157, 16.0613, 17.8640**, and if you desaturate by 10%, it is **13.2331, 16.9735, 19.0644**.

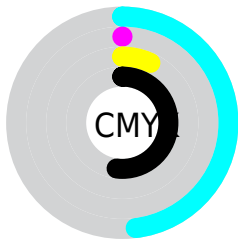
Distribution







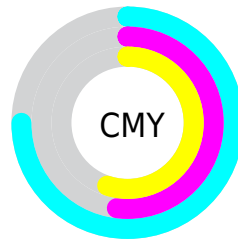
-  Red (25%)
-  Green (48%)
-  Blue (45%)






-  Red (25%)
-  Yellow (38%)
-  Blue (48%)



-  Cyan (48%)
-  Magenta (0%)
-  Yellow (7%)
-  Black (52%)



-  Cyan (75%)
-  Magenta (52%)
-  Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2346, 16.4708, 18.4539 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 12.2346, 16.4708, 18.4539 by changing the saturation by 10% instead.

■ 12.2346, 16.4708,
18.4539

■ 12.2346, 16.4708,
18.4539

■ 199.6906,
232.1040, 255.7386

■ 6.9770, 9.8579,
11.1036

■ 29.5348, 37.4136,
41.6336

■ 3.4939, 5.3049,
6.0215

■ 42.3082, 52.5124,
58.3000

■ 1.4200, 2.4272,
2.7891

■ 58.3174, 71.2085,
78.9089

■ 0.2704, 0.8398,
0.9880

■ 77.9280, 93.8864,
103.8787

■ 0.0000, 0.0000,
0.0000

■ 101.5053,
120.9305, 133.6281

129.4146,

152.7252, 168.5755

162.0212,
189.6549, 209.1395

■ 12.2346, 16.4708,
18.4539

■ 12.2346, 16.4708,
18.4539

■ 11.4157, 16.0613,
17.8640

■ 13.2331, 16.9735,
19.0644

■ 10.7632, 15.7369,
17.2929

■ 14.4205, 17.5729,
19.6949

■ 10.2645, 15.4915,
16.7403

■ 15.8070, 18.2747,
20.3462

■ 9.9043, 15.3173,
16.2054

■ 17.4019, 19.0836,
21.0190

■ 9.6447, 15.1947,
15.6864

■ 19.2137, 20.0041,
21.7136

■ 9.5939, 15.1707,
15.5823

■ 21.2504, 21.0404,
22.4305

■ 23.5198, 22.1963,
23.1702

■ 26.0292, 23.4756,
23.9330

■ 28.7855, 24.8820,
24.7193

Harmonies

Analogous

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



12.5827, 16.4708, 13.5002



12.2346, 16.4708, 18.4539



12.7388, 16.4708, 24.3221

Triad

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



12.2346, 16.4708, 18.4539



17.7503, 16.4708, 28.4305



17.4138, 16.4708, 10.0488

Complementary

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



12.2346, 16.4708, 18.4539



11.2050, 8.3593, 7.3270

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.



18.9854, 16.4708, 12.7754



12.2346, 16.4708, 18.4539



19.1906, 16.4708, 23.2454

Square

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



12.2346, 16.4708, 18.4539



15.8355, 16.4708, 30.7750



19.6600, 16.4708, 17.4238



15.4758, 16.4708, 9.2782

Rectangle

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



12.2346, 16.4708, 18.4539



13.5167, 16.4708, 27.7932



19.6600, 16.4708, 17.4238



18.0077, 16.4708, 10.7349

Sweetspot

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



12.2351, 16.4715, 18.4543



29.2958, 33.2262, 36.8655



10.8202, 15.9860, 7.3663



6.7811, 7.7652, 8.6312



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.2351, 16.4715, 18.4543



20.2533, 28.6665, 31.8373



10.5735, 12.2876, 20.5540



4.0820, 4.5024, 4.9659



9.9229, 15.6928, 16.1109



47.0811, 74.7555, 75.5224

Inverse Universe

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



11.2050, 8.3593, 7.3270



18.1741, 12.2160, 9.3207



12.2389, 10.8707, 6.3041



4.0209, 4.0241, 4.3079



8.5682, 4.4034, 1.0173



40.6663, 20.9229, 3.7728

Previews

White Background



This preview shows how the XYZ color 12.2346, 16.4708, 18.4539 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 12.2346, 16.4708, 18.4539 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

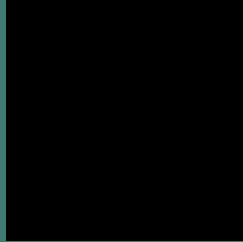
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2346, 16.4708, 18.4539

Background



This preview shows how black text looks on a background with the XYZ color 12.2346, 16.4708, 18.4539.



This preview shows how white text looks on a background with the XYZ color 12.2346, 16.4708,

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

12.2346, 16.4708, 18.4539

Protanopia

15.5712, 16.3159, 16.5159

Deuteranopia

16.5647, 16.2866, 19.1002



Tritanopia

13.3209, 16.5517, 23.6118

Trichromacy



Original Color

12.2346, 16.4708, 18.4539

Protanomaly

13.8837, 16.1034, 17.1284

Deuteranomaly

14.4252, 16.0049, 18.8520

Tritanomaly

12.9124, 16.5676, 21.5861

Monochromacy



Original Color

12.2346, 16.4708, 18.4539

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.5110, 14.5754, 16.3413

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2346, 16.4708, 18.4539 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(64, 123, 114)` looks like.

```
.text, #text, p{  
    color:rgb(64, 123, 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(64, 123, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 123, 114) }
```

Border

The CSS property to change the border of an element to XYZ 12.2346, 16.4708, 18.4539 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(64, 123, 114) }
```


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

```
.border{ border-color:rgb(64, 123, 114) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 123, 114)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 123, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 123, 114);  
box-shadow:4px 4px 4px 4px rgb(64, 123,  
114) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2346, 16.4708, 18.4539 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 123, 114) }
```

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

```
.background{ background-color: rgb(64, 123,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor