

Converting Colors

XYZ(13.2402, 16.7543, 23.7523)

Have a look what the booklet for
XYZ(13.2402, 16.7543, 23.7523)
contains.

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Color

**XYZ(13.1688, 16.6546,
23.6397)**

Conversions

Conversions Part 1

Format	Color
Hex	417A82
RGB	65, 122, 130
RGB Percent	25%, 48%, 51%
CMY	0.7451, 0.5216, 0.4902
CMYK	0.50, 0.06, 0.00, 0.49
HSL	187°, 33%, 38%
HSV	187°, 50%, 51%
XYZ	13.1688, 16.6546, 23.6397
YIQ	105.8690, -36.5400, -9.5960

Conversions

Conversions Part 2

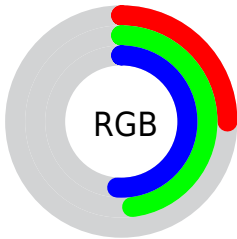
Format	Color
R_{YB}	65, 95, 130
Decimal	4291202
CIE _{Lab}	47.82, -16.37, -10.17
CIE _{LCh}	48, 19.270, 211.847
Yxy	16.6546, 0.2463, 0.3115
Android (android.graphics.Color)	4282481282 (0xFF417A82)
YUV	105.8690, 11.8966, -35.8421
Hunter-Lab	40.8100, -13.8183, -5.7774

Details

The XYZ color **13.1688, 16.6546, 23.6397** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.5430, 9.8930, 6.2500**, and the grayscale version is **13.6399, 14.3502, 15.6274**.

A 20% lighter version of the original color is **31.3484, 37.9304, 50.4688**, and **3.9053, 5.3785, 8.6169** is the 20% darker color. If you saturate the color by 10%, you get **12.2106, 15.8718, 23.5394**, and if you desaturate by 10%, it is **14.3294, 17.5473, 23.7511**.

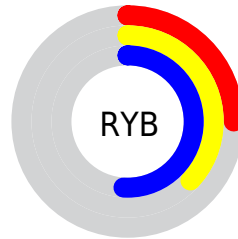
Distribution



Red (25%)

Green (48%)

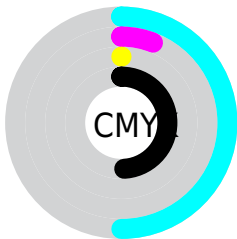
Blue (51%)



Red (25%)

Yellow (37%)

Blue (51%)

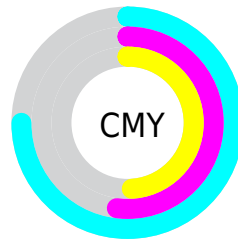


Cyan (50%)

Magenta (6%)

Yellow (0%)

Black (49%)



Cyan (75%)

Magenta (52%)

Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.1688, 16.6546, 23.6397 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 13.1688, 16.6546, 23.6397 by changing the saturation by 10% instead.

■ 13.1688, 16.6546,
23.6397

■ 13.1688, 16.6546,
23.6397

205.6125,
233.1740, 284.2215

■ 7.6227, 9.9885,
14.8568

■ 31.2054, 37.7310,
50.3780

■ 3.9042, 5.3914,
8.5735

■ 44.4267, 52.9100,
69.1706

■ 1.6481, 2.4787,
4.3710

■ 60.9370, 71.6956,
92.1368

■ 0.4235, 0.8659,
1.8310

■ 81.1018, 94.4720,
119.6952

■ 0.0000, 0.0000,
0.4483

■ 105.2864,
121.6236, 152.2643

■ 0.0000, 0.0000,
0.0000

133.8561,

153.5349, 190.2627

167.1764,
190.5902, 234.1089

■ 13.1688, 16.6546,
23.6397

■ 13.1688, 16.6546,
23.6397

■ 12.2106, 15.8718,
23.5394

■ 14.3294, 17.5473,
23.7511

■ 11.4395, 15.1898,
23.4484

■ 15.7032, 18.5544,
23.8731

■ 10.8403, 14.6012,
23.3664

■ 17.3024, 19.6825,
24.0066

■ 10.3950, 14.0967,
23.2925

■ 19.1376, 20.9372,
24.1520

■ 10.0470, 13.6470,
23.2240

■ 21.2186, 22.3235,
24.3099

■ 10.0469, 13.6469,
23.2240

■ 23.5550, 23.8463,
24.4807

■ 26.1555, 25.5102,
24.6648

■ 29.0286, 27.3196,
24.8626

■ 32.1824, 29.2787,
25.0746

Harmonies

Analogous

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



12.7323, 16.6546, 18.4429



13.1688, 16.6546, 23.6397



14.3115, 16.6546, 27.8974

Triad

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



13.1688, 16.6546, 23.6397



18.9475, 16.6546, 23.0106



15.7227, 16.6546, 10.1815

Complementary

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



13.1688, 16.6546, 23.6397



12.5430, 9.8930, 6.2500

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.



17.4516, 16.6546, 10.9645



13.1688, 16.6546, 23.6397



19.3926, 16.6546, 17.8287

Square

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



13.1688, 16.6546, 23.6397



17.6506, 16.6546, 27.4901



18.8269, 16.6546, 13.5573



14.1385, 16.6546, 11.1856

Rectangle

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



13.1688, 16.6546, 23.6397



15.3626, 16.6546, 29.2937



18.8269, 16.6546, 13.5573



16.3061, 16.6546, 10.2438

Sweetspot

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



13.1693, 16.6552, 23.6401



31.9231, 35.6629, 42.3936



11.3519, 17.5650, 9.0238



7.0995, 7.9856, 9.5855



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



13.1693, 16.6552, 23.6401



21.2998, 27.7773, 41.4314



9.8589, 10.0343, 22.5366



4.4027, 4.7994, 5.5076



9.6366, 13.0917, 22.2690



0.0000, 0.0000, 0.0000

Inverse Universe

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



14.6095, 9.9321, 19.5601



24.2286, 14.8063, 32.9771



15.2205, 15.2481, 7.1425



4.4761, 4.4036, 5.3116



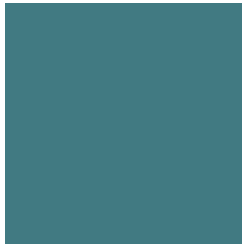
11.7411, 5.7161, 15.7582



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 13.1688, 16.6546, 23.6397 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 13.1688, 16.6546, 23.6397 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

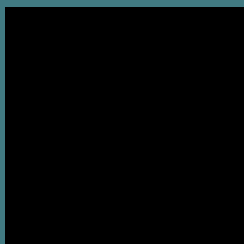
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

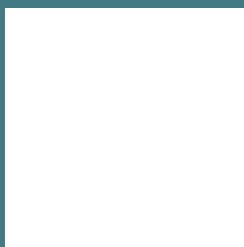
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 13.1688, 16.6546, 23.6397

Background



This preview shows how black text looks on a background with the XYZ color 13.1688, 16.6546, 23.6397.



This preview shows how white text looks on a background with the XYZ color 13.1688, 16.6546,

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

13.1688, 16.6546, 23.6397

Protanopia

16.1144, 16.4883, 21.4020

Deuteranopia

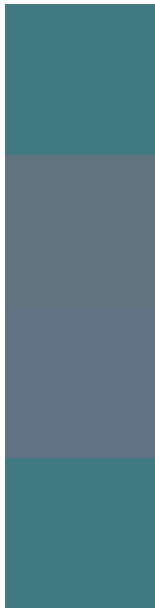
16.7490, 16.4227, 24.4774



Tritanopia

13.3712, 16.7433, 24.3568

Trichromacy



Original Color

13.1688, 16.6546, 23.6397

Protanomaly

14.7306, 16.4300, 22.1336

Deuteranomaly

15.0060, 16.1874, 24.1634

Tritanomaly

13.3030, 16.7160, 23.9981

Monochromacy



Original Color

13.1688, 16.6546, 23.6397

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

13.2031, 15.0503, 18.4288

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.1688, 16.6546, 23.6397 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(65, 122, 130)` looks like.

```
.text, #text, p{  
    color:rgb(65, 122, 130)  
}
```

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(65, 122, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 122, 130) }
```

Border

The CSS property to change the border of an element to XYZ 13.1688, 16.6546, 23.6397 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(65, 122, 130) }
```


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

```
.border{ border-color:rgb(65, 122, 130) }
```

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

Here you see how a box with a 4 pixel rgb(65, 122, 130) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 122, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 122, 130);  
box-shadow:4px 4px 4px 4px rgb(65, 122,  
130) }
```

Background

The CSS property to change the background color of an element to XYZ 13.1688, 16.6546, 23.6397 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 122, 130) }
```

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

```
.background{ background-color: rgb(65, 122,  
130) }
```

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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