

Converting Colors

XYZ(12.3577, 16.2574, 23.6234)

Have a look what the booklet for
XYZ(12.3577, 16.2574, 23.6234)
contains.

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Color

**XYZ(12.3540, 16.2346,
23.6016)**

Conversions

Conversions Part 1

Format	Color
Hex	337A82
RGB	51, 122, 130
RGB Percent	20%, 48%, 51%
CMY	0.8000, 0.5216, 0.4902
CMYK	0.61, 0.06, 0.00, 0.49
HSL	186°, 44%, 35%
HSV	186°, 61%, 51%
XYZ	12.3540, 16.2346, 23.6016
YIQ	101.6830, -44.8840, -12.5640

Conversions

Conversions Part 2

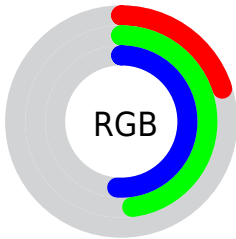
Format	Color
RYB	51, 88, 130
Decimal	3373698
CIELab	47.28, -19.49, -11.04
CIELCh	47, 22.395, 209.525
Yxy	16.2346, 0.2367, 0.3111
Android (android.graphics.Color)	4281563778 (0xFF337A82)
YUV	101.6830, 13.9603, -44.4490
Hunter-Lab	40.2922, -15.7814, -6.5253

Details

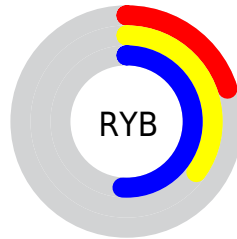
The XYZ color **12.3540, 16.2346, 23.6016** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.3677, 8.1130, 4.0991**, and the grayscale version is **12.5203, 13.1723, 14.3446**.

A 20% lighter version of the original color is **29.8211, 37.1430, 50.3973**, and **3.8677, 5.3592, 8.6152** is the 20% darker color. If you saturate the color by 10%, you get **11.6280, 15.6224, 23.5220**, and if you desaturate by 10%, it is **13.2664, 16.9469, 23.6913**.

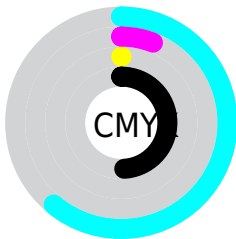
Distribution



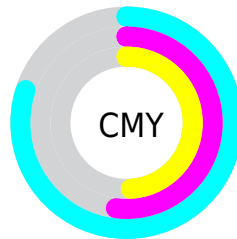
- Red (20%)
- Green (48%)
- Blue (51%)



- Red (20%)
- Yellow (35%)
- Blue (51%)



- Cyan (61%)
- Magenta (6%)
- Yellow (0%)
- Black (49%)



- Cyan (80%)
- Magenta (52%)
- Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3540, 16.2346, 23.6016 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 12.3540, 16.2346, 23.6016 by changing the saturation by 10% instead.

12.3540, 16.2346,
23.6016

12.3540, 16.2346,
23.6016

200.4574,
230.7221, 284.0215

7.0592, 9.6903,
14.8289

29.7495, 37.0050,
50.3149

3.5458, 5.1941,
8.5541

42.5809, 51.9999,
69.0926

1.4485, 2.3616,
4.3587

58.6552, 70.5805,
92.0424

0.2904, 0.8060,
1.8241

78.3377, 93.1311,
119.5828

0.0000, 0.0000,
0.4438

101.9938,
120.0362, 152.1324

0.0000, 0.0000,
0.0000

129.9889,

151.6801, 190.1097

162.6883,
188.4473, 233.9332

■ 12.3540, 16.2346,
23.6016

■ 12.3540, 16.2346,
23.6016

■ 11.6280, 15.6224,
23.5220

■ 13.2664, 16.9469,
23.6913

■ 11.0712, 15.1002,
23.4506

■ 14.3776, 17.7646,
23.7906

■ 10.6657, 14.6593,
23.3868

■ 15.7007, 18.6947,
23.9004

■ 10.3718, 14.2966,
23.3323

■ 17.2471, 19.7434,
24.0213

■ 19.0277, 20.9160,
24.1537

■ 21.0524, 22.2178,
24.2983

■ 23.3306, 23.6535,
24.4554

■ 25.8712, 25.2279,
24.6254

■ 28.6827, 26.9454,
24.8087

Harmonies

Analogous

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



11.9334, 16.2346, 17.5865



12.3540, 16.2346, 23.6016



13.5821, 16.2346, 28.8152

Triad

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



12.3540, 16.2346, 23.6016



18.9434, 16.2346, 23.7918



15.4621, 16.2346, 8.8734

Complementary

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



12.3540, 16.2346, 23.6016



11.3677, 8.1130, 4.0991

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.



17.4395, 16.2346, 9.8573



12.3540, 16.2346, 23.6016



19.5516, 16.2346, 17.7672

Square

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



12.3540, 16.2346, 23.6016



17.3803, 16.2346, 28.9405



18.9795, 16.2346, 12.8370



13.6323, 16.2346, 9.7962

Rectangle

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



12.3540, 16.2346, 23.6016



14.7497, 16.2346, 30.6859



18.9795, 16.2346, 12.8370



16.1319, 16.2346, 8.9883

Sweetspot

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



12.3545, 16.2352, 23.6020



31.0752, 35.2364, 42.3560



10.1350, 16.9841, 6.8685



6.8666, 7.8644, 9.5744



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.



12.3545, 16.2352, 23.6020



20.0626, 27.1364, 41.3729



8.4576, 8.4414, 22.3030



4.4104, 4.8148, 5.5102



9.9476, 13.7136, 22.3727



0.0000, 0.0000, 0.0000

Inverse Universe

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



13.9030, 8.5190, 19.3246



23.1566, 12.6640, 32.6144



14.2090, 13.7956, 5.0462



4.4800, 4.4051, 5.3321



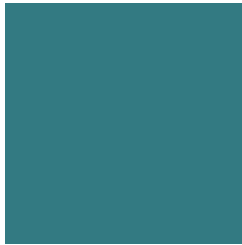
11.8980, 5.7789, 16.5847



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.3540, 16.2346, 23.6016 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 12.3540, 16.2346, 23.6016 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

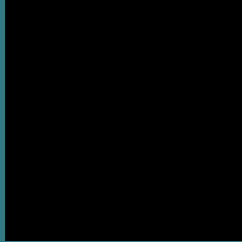
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.3540, 16.2346, 23.6016

Background



This preview shows how black text looks on a background with the XYZ color 12.3540, 16.2346, 23.6016.

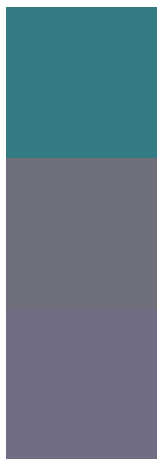


This preview shows how white text looks on a background with the XYZ color 12.3540, 16.2346,

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

12.3540, 16.2346, 23.6016

Protanopia

15.6900, 16.1139, 21.0222

Deuteranopia

16.3844, 16.0755, 24.4296



Tritanopia

12.5406, 16.3151, 24.3180

Trichromacy



Original Color

12.3540, 16.2346, 23.6016

Protanomaly

14.0165, 15.8917, 22.0673

Deuteranomaly

14.3986, 15.8742, 24.1349

Tritanomaly

12.4724, 16.2878, 23.9592

Monochromacy



Original Color

12.3540, 16.2346, 23.6016

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

11.9605, 13.9461, 17.3907

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3540, 16.2346, 23.6016 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(51, 122, 130)` looks like.

```
.text, #text, p{  
    color:rgb(51, 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(51, 122, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 122, 130) }
```

Border

The CSS property to change the border of an element to XYZ 12.3540, 16.2346, 23.6016 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(51, 122, 130) }
```


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

```
.border{ border-color:rgb(51, 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(51, 122, 130)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 122, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 122, 130);  
box-shadow:4px 4px 4px 4px rgb(51, 122,  
130) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3540, 16.2346, 23.6016 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 122, 130) }
```

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

```
.background{ background-color: rgb(51, 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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