

Converting Colors

XYZ(12.5005, 15.2248, 20.0016)

Have a look what the booklet for
XYZ(12.5005, 15.2248, 20.0016)
contains.

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Color

**XYZ(12.5014, 15.1540,
20.0354)**

Conversions

Conversions Part 1

Format	Color
Hex	4C7378
RGB	76, 115, 120
RGB Percent	30%, 45%, 47%
CMY	0.7020, 0.5490, 0.5294
CMYK	0.37, 0.04, 0.00, 0.53
HSL	187°, 22%, 38%
HSV	187°, 37%, 47%
XYZ	12.5014, 15.1540, 20.0354
YIQ	103.9090, -24.8490, -6.7130

Conversions

Conversions Part 2

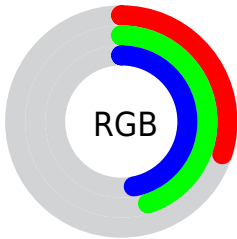
Format	Color
R_{YB}	76, 97, 120
Decimal	5010296
CIE _{Lab}	45.84, -12.29, -7.13
CIE _{LCh}	46, 14.209, 210.110
Yxy	15.1540, 0.2621, 0.3178
Android (android.graphics.Color)	4283200376 (0xFF4C7378)
YUV	103.9090, 7.9329, -24.4762
Hunter-Lab	38.9281, -10.8007, -3.2655

Details

The XYZ color **12.5014, 15.1540, 20.0354** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.9929, 10.4000, 8.2132**, and the grayscale version is **13.1184, 13.8015, 15.0299**.

A 20% lighter version of the original color is **30.0175, 35.1280, 44.2280**, and **3.6288, 4.7152, 6.8498** is the 20% darker color. If you saturate the color by 10%, you get **11.4813, 14.3994, 19.9438**, and if you desaturate by 10%, it is **13.7025, 16.0061, 20.1368**.

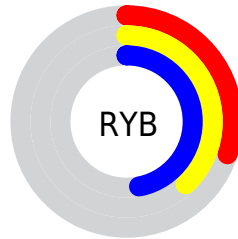
Distribution



Red (30%)

Green (45%)

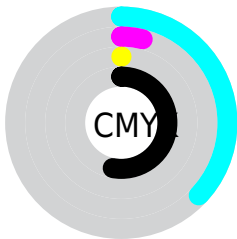
Blue (47%)



Red (30%)

Yellow (38%)

Blue (47%)

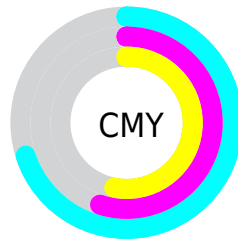


Cyan (37%)

Magenta (4%)

Yellow (0%)

Black (53%)



Cyan (70%)

Magenta (55%)

Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.5014, 15.1540, 20.0354 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 12.5014, 15.1540, 20.0354 by changing the saturation by 10% instead.

■ 12.5014, 15.1540,
20.0354

■ 12.5014, 15.1540,
20.0354

201.3999,
224.2965, 264.7173

■ 7.1607, 8.9275,
12.2364

■ 30.0141, 35.1231,
44.3363

■ 3.6101, 4.6939,
6.7804

■ 42.9168, 49.6346,
61.6753

■ 1.4840, 2.0688,
3.2488

■ 59.0709, 67.6764,
83.0314

■ 0.3149, 0.6470,
1.2230

■ 78.8418, 89.6332,
108.8231

■ 0.0000, 0.0000,
0.0000

■ 102.5947,
115.8892, 139.4690

130.6952,

146.8288, 175.3877

163.5084,
182.8364, 216.9976

■ 12.5014, 15.1540,
20.0354

■ 12.5014, 15.1540,
20.0354

■ 11.4813, 14.3994,
19.9438

■ 13.7025, 16.0061,
20.1368

■ 10.6311, 13.7354,
19.8604

■ 15.0926, 16.9586,
20.2474

■ 9.9402, 13.1569,
19.7852

■ 16.6804, 18.0166,
20.3679

■ 9.3965, 12.6577,
19.7175

■ 18.4742, 19.1841,
20.4988

■ 8.9860, 12.2305,
19.6566

■ 20.4813, 20.4652,
20.6402

■ 8.6794, 11.8602,
19.6013

■ 22.7091, 21.8634,
20.7927

■ 8.5822, 11.7400,
19.5833

■ 25.1642, 23.3824,
20.9565

■ 27.8533, 25.0255,
21.1319

■ 30.7827, 26.7960,
21.3193

Harmonies

Analogous

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



12.2207, 15.1540, 16.5128



12.5014, 15.1540, 20.0354



13.2858, 15.1540, 22.9053

Triad

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



12.5014, 15.1540, 20.0354



16.4940, 15.1540, 20.0105



14.3990, 15.1540, 10.7437

Complementary

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



12.5014, 15.1540, 20.0354



11.9929, 10.4000, 8.2132

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.



15.5820, 15.1540, 11.4165



12.5014, 15.1540, 20.0354



16.8316, 15.1540, 16.4875

Square

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



12.5014, 15.1540, 20.0354



15.5900, 15.1540, 22.8896



16.4892, 15.1540, 13.4073



13.2786, 15.1540, 11.4263

Rectangle

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



12.5014, 15.1540, 20.0354



14.0114, 15.1540, 23.8889



16.4892, 15.1540, 13.4073



14.8027, 15.1540, 10.8175

Sweetspot

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



12.5019, 15.1546, 20.0358



28.0075, 30.8073, 35.7233



11.1601, 15.5549, 10.0818



6.5674, 7.2543, 8.4608



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.



12.5019, 15.1546, 20.0358



20.4578, 25.5255, 35.1018



10.3383, 10.8274, 19.3146



4.0701, 4.4384, 5.0854



9.3561, 12.7947, 21.3618



44.2355, 60.2437, 101.7665

Inverse Universe

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



13.4251, 10.4002, 17.5201



22.3677, 15.9880, 29.8304



13.8413, 14.0968, 8.8294



4.1358, 4.0701, 4.9129



11.3059, 5.4985, 15.4334



53.7312, 26.1488, 72.5717

Previews

White Background



This preview shows how the XYZ color 12.5014, 15.1540, 20.0354 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 12.5014, 15.1540, 20.0354 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 12.5014, 15.1540, 20.0354

Background



This preview shows how black text looks on a background with the XYZ color 12.5014, 15.1540, 20.0354.



This preview shows how white text looks on a background with the XYZ color 12.5014, 15.1540,

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

12.5014, 15.1540, 20.0354

Protanopia

14.5365, 14.9413, 18.3375

Deuteranopia

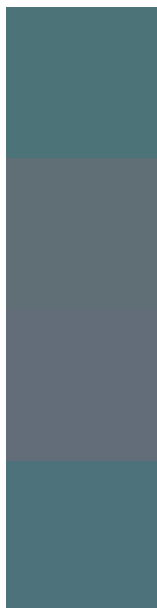
15.2465, 14.9530, 20.4950



Tritanopia

12.7160, 15.0676, 21.3069

Trichromacy



Original Color

12.5014, 15.1540, 20.0354

Protanomaly

13.6107, 14.9230, 18.9927

Deuteranomaly

14.0654, 14.9704, 20.2374

Tritanomaly

12.6530, 15.0425, 20.9755

Monochromacy



Original Color

12.5014, 15.1540, 20.0354

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.7931, 14.2306, 16.8244

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.5014, 15.1540, 20.0354 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(76, 115, 120)` looks like.

```
.text, #text, p{  
    color:rgb(76, 115, 120)  
}
```

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(76, 115, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 115, 120) }
```

Border

The CSS property to change the border of an element to XYZ 12.5014, 15.1540, 20.0354 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(76, 115, 120) }
```


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

```
.border{ border-color:rgb(76, 115, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 115, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 115, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 115, 120);  
box-shadow:4px 4px 4px 4px rgb(76, 115,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 12.5014, 15.1540, 20.0354 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 115, 120) }
```

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

```
.background{ background-color: rgb(76, 115,  
120) }
```

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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