

Converting Colors

XYZ(12.9584, 11.2896, 39.9448)

Have a look what the booklet for
XYZ(12.9584, 11.2896, 39.9448)
contains.

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Color

**XYZ(12.9313, 11.2447,
40.0170)**

Conversions

Conversions Part 1

Format	Color
Hex	3D5AAB
RGB	61, 90, 171
RGB Percent	24%, 35%, 67%
CMY	0.7608, 0.6471, 0.3294
CMYK	0.64, 0.47, 0.00, 0.33
HSL	224°, 47%, 45%
HSV	224°, 64%, 67%
XYZ	12.9313, 11.2447, 40.0170
YIQ	90.5630, -43.2850, 19.0430

Conversions

Conversions Part 2

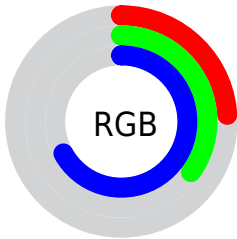
Format	Color
R _Y B	61, 84, 171
Decimal	4020907
CIE Lab	39.99, 15.83, -46.73
CIE LCh	40, 49.334, 288.711
Yxy	11.2447, 0.2014, 0.1752
Android (android.graphics.Color)	4282210987 (0xFF3D5AAB)
YUV	90.5630, 39.6554, -25.9268
Hunter-Lab	33.5331, 10.1516, -47.2810

Details

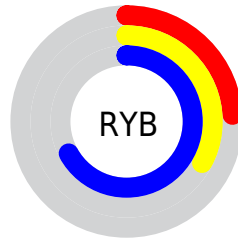
The XYZ color **12.9313, 11.2447, 40.0170** is a dark color, and the websafe version is hex **3366CC**. A complement of this color would be **27.3110, 28.3425, 8.4469**, and the grayscale version is **9.7657, 10.2743, 11.1887**.

A 20% lighter version of the original color is **30.8510, 28.2242, 76.4948**, and **4.2084, 3.1848, 17.5325** is the 20% darker color. If you saturate the color by 10%, you get **11.0679, 8.8388, 39.6511**, and if you desaturate by 10%, it is **15.3112, 14.1842, 40.4592**.

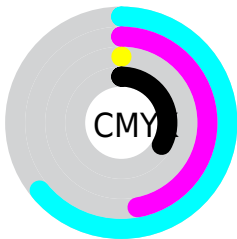
Distribution



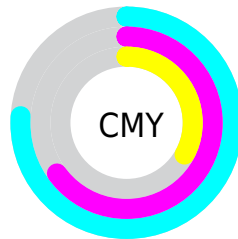
- Red (24%)
- Green (35%)
- Blue (67%)



- Red (24%)
- Yellow (33%)
- Blue (67%)



- Cyan (64%)
- Magenta (47%)
- Yellow (0%)
- Black (33%)



- Cyan (76%)
- Magenta (65%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9313, 11.2447, 40.0170 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 12.9313, 11.2447, 40.0170 by changing the saturation by 10% instead.

■ 12.9313, 11.2447,
40.0170

■ 12.9313, 11.2447,
40.0170

204.1234,
199.3387, 361.7494

■ 7.4579, 6.2317,
27.2379

■ 30.7827, 28.1118,
76.4268

■ 3.7990, 2.9865,
17.5180

■ 43.8914, 40.7346,
100.8945

■ 1.5890, 1.1247,
10.4386

■ 60.2759, 56.6629,
130.0956

■ 0.3853, 0.0000,
5.5813

■ 80.3016, 76.2809,
164.4485

■ 0.0000, 0.0000,
2.5276

■ 104.3339, 99.9731,
204.3718

■ 0.0000, 0.0000,
0.8547

132.7380,

■ 0.0000, 0.0000,

128.1239, 250.2840

0.0000

165.8794,
161.1176, 302.6037

■ 12.9313, 11.2447,
40.0170

■ 12.9313, 11.2447,
40.0170

■ 11.0679, 8.8388,
39.6511

■ 15.3112, 14.1842,
40.4592

■ 9.6774, 6.9302,
39.3560

■ 18.2434, 17.6881,
40.9810

■ 8.7102, 5.4789,
39.1268

■ 21.7621, 21.7856,
41.5864

■ 8.2921, 4.8229,
39.0222

■ 25.8981, 26.5039,
42.2791

■ 30.6801, 31.8680,
43.0625

■ 36.1349, 37.9019,
43.9397

■ 42.2877, 44.6281,
44.9136

■ 49.1625, 52.0680,
45.9874

■ 56.7820, 60.2422,
47.1635

Harmonies

Analogous

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



9.4554, 11.2447, 41.4183



12.9313, 11.2447, 40.0170



16.4079, 11.2447, 29.2762

Triad

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



12.9313, 11.2447, 40.0170



15.6223, 11.2447, 2.8619



5.4626, 11.2447, 8.9244

Complementary

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



12.9313, 11.2447, 40.0170



27.3110, 28.3425, 8.4469

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.



6.4806, 11.2447, 3.5647



12.9313, 11.2447, 40.0170



12.0228, 11.2447, 1.5198

Square

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



12.9313, 11.2447, 40.0170



18.1752, 11.2447, 7.1550



8.7200, 11.2447, 1.6817



5.6042, 11.2447, 19.3066

Rectangle

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



12.9313, 11.2447, 40.0170



18.0320, 11.2447, 20.4015



8.7200, 11.2447, 1.6817



5.6700, 11.2447, 6.6147

Sweetspot

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



12.9318, 11.2450, 40.0173



50.5063, 52.1118, 76.3985



21.3455, 32.0614, 30.5244



10.7415, 11.0348, 16.9515



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



12.9318, 11.2450, 40.0173



18.7192, 14.3463, 70.7844



12.9196, 8.2888, 39.4473



7.7442, 8.0878, 10.1056



6.2887, 3.7113, 29.4294



0.2198, 0.1930, 0.8337

Inverse Universe

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



20.3093, 12.7343, 11.0606



33.3771, 18.7214, 12.9342



27.1417, 35.5132, 9.8399



8.0887, 8.0487, 8.7779



13.0379, 6.6777, 2.5790



0.3853, 0.1948, 0.1910

Previews

White Background



This preview shows how the XYZ color 12.9313, 11.2447, 40.0170 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 12.9313, 11.2447, 40.0170 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

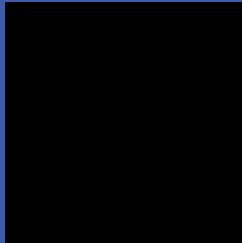
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9313, 11.2447, 40.0170

Background



This preview shows how black text looks on a background with the XYZ color 12.9313, 11.2447, 40.0170.



This preview shows how white text looks on a background with the XYZ color 12.9313, 11.2447,

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

12.9313, 11.2447, 40.0170

Protanopia

12.6557, 11.2176, 40.5279

Deuteranopia

11.4386, 11.2680, 39.6023



Tritanopia

8.3009, 11.2901, 17.0709

Trichromacy



Original Color

12.9313, 11.2447, 40.0170

Protanomaly

12.8184, 11.3015, 40.5355

Deuteranomaly

11.5893, 11.0783, 39.5577

Tritanomaly

9.5322, 11.0485, 23.8205

Monochromacy



Original Color

12.9313, 11.2447, 40.0170

Achromatopsia

9.9438, 10.4616, 11.3927

Achromatomaly

10.4395, 10.5437, 19.2542

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9313, 11.2447, 40.0170 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(61, 90, 171)` looks like.

```
.text, #text, p{  
    color:rgb(61, 90, 171)  
}
```

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(61, 90, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 90, 171) }
```

Border

The CSS property to change the border of an element to XYZ 12.9313, 11.2447, 40.0170 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(61, 90, 171) }
```


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

```
.border{ border-color:rgb(61, 90, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(61, 90, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 90, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 90, 171);  
box-shadow:4px 4px 4px 4px rgb(61, 90,  
171) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9313, 11.2447, 40.0170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 90, 171) }
```

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

```
.background{ background-color: rgb(61, 90,  
171) }
```

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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