

Converting Colors

XYZ(12.0205, 10.4867, 32.9004)

Have a look what the booklet for
XYZ(12.0205, 10.4867, 32.9004)
contains.

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Color

**XYZ(12.0010, 10.4336,
32.8339)**

Conversions

Conversions Part 1

Format	Color
Hex	48569C
RGB	72, 86, 156
RGB Percent	28%, 34%, 61%
CMY	0.7176, 0.6627, 0.3882
CMYK	0.54, 0.45, 0.00, 0.39
HSL	230°, 37%, 45%
HSV	230°, 54%, 61%
XYZ	12.0010, 10.4336, 32.8339
YIQ	89.7940, -30.8140, 18.8020

Conversions

Conversions Part 2

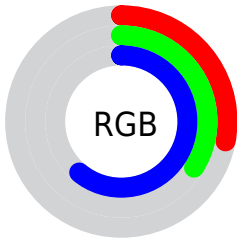
Format	Color
R_{YB}	72, 84, 156
Decimal	4740764
CIE _{Lab}	38.61, 15.45, -39.96
CIE _{LCh}	39, 42.846, 291.141
Yxy	10.4336, 0.2171, 0.1888
Android (android.graphics.Color)	4282930844 (0xFF48569C)
YUV	89.7940, 32.6396, -15.6053
Hunter-Lab	32.3011, 9.7922, -37.6572

Details

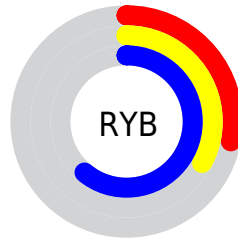
The XYZ color **12.0010, 10.4336, 32.8339** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **24.5536, 26.8827, 10.0262**, and the grayscale version is **9.6068, 10.1071, 11.0066**.

A 20% lighter version of the original color is **29.0260, 26.4667, 65.2068**, and **3.3793, 2.6305, 13.4263** is the 20% darker color. If you saturate the color by 10%, you get **10.0369, 8.0180, 32.4714**, and if you desaturate by 10%, it is **14.4499, 13.3797, 33.2737**.

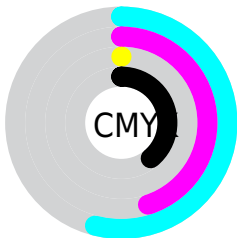
Distribution



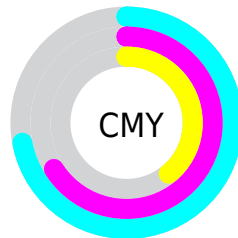
- Red (28%)
- Green (34%)
- Blue (61%)



- Red (28%)
- Yellow (33%)
- Blue (61%)



- Cyan (54%)
- Magenta (45%)
- Yellow (0%)
- Black (39%)



- Cyan (72%)
- Magenta (66%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0010, 10.4336, 32.8339 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 12.0010, 10.4336, 32.8339 by changing the saturation by 10% instead.

■ 12.0010, 10.4336,
32.8339

■ 12.0010, 10.4336,
32.8339

198.1817,
193.7394, 329.5096

■ 6.8166, 5.6874,
21.7292

■ 29.1138, 26.6079,
65.2291

■ 3.3930, 2.6559,
13.4616

■ 41.7728, 38.8048,
87.3567

■ 1.3648, 0.9549,
7.6127

■ 57.6541, 54.2541,
113.9957

■ 0.2309, 0.0000,
3.7640

■ 77.1230, 73.3401,
145.5645

■ 0.0000, 0.0000,
1.4968

■ 100.5448, 96.4472,
182.4818

■ 0.0000, 0.0000,
0.2155

128.2850,

■ 0.0000, 0.0000,

123.9599, 225.1660

0.0000

160.7088,
156.2624, 274.0358

■ 12.0010, 10.4336,
32.8339

■ 12.0010, 10.4336,
32.8339

■ 10.0369, 8.0180,
32.4714

■ 14.4499, 13.3797,
33.2737

■ 8.5233, 6.0995,
32.1808

■ 17.4121, 16.8847,
33.7941

■ 7.4233, 4.6426,
31.9576

■ 20.9155, 20.9762,
34.3992

■ 6.6930, 3.6063,
31.7961

■ 24.9856, 25.6796,
35.0925

■ 6.3701, 3.1390,
31.7229

■ 29.6462, 31.0189,
35.8775

■ 34.9198, 37.0167,
36.7572

■ 40.8275, 43.6945,
37.7348

■ 47.3897, 51.0728,
38.8131

■ 54.6257, 59.1714,
39.9949

Harmonies

Analogous

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



9.1060, 10.4336, 34.6075



12.0010, 10.4336, 32.8339



14.7597, 10.4336, 24.1334

Triad

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



12.0010, 10.4336, 32.8339



13.7172, 10.4336, 3.0576



5.4707, 10.4336, 9.1355

Complementary

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



12.0010, 10.4336, 32.8339



24.5536, 26.8827, 10.0262

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.



6.2694, 10.4336, 4.1437



12.0010, 10.4336, 32.8339



10.7744, 10.4336, 1.8939

Square

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



12.0010, 10.4336, 32.8339



15.8737, 10.4336, 6.6346



8.0891, 10.4336, 2.1661



5.6749, 10.4336, 17.9224

Rectangle

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



12.0010, 10.4336, 32.8339



15.9749, 10.4336, 17.1471



8.0891, 10.4336, 2.1661



5.6242, 10.4336, 7.0485

Sweetspot

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



12.0014, 10.4339, 32.8342



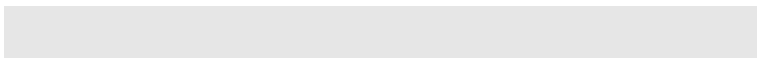
43.4547, 44.4231, 63.4110



19.4439, 27.1080, 29.7992



9.2479, 9.4127, 13.8998



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



12.0014, 10.4339, 32.8342



17.4852, 13.6307, 58.8362



13.5742, 9.7449, 32.6183



6.3697, 6.6051, 8.3459



5.2653, 2.6221, 26.1358



0.1161, 0.0907, 0.4746

Inverse Universe

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



17.7078, 12.3750, 10.2597



29.1785, 18.1941, 12.4458



21.9607, 28.8344, 10.5396



6.6759, 6.6633, 7.1446



11.4559, 5.8869, 1.3856



0.2159, 0.1097, 0.0830

Previews

White Background



This preview shows how the XYZ color 12.0010, 10.4336, 32.8339 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 12.0010, 10.4336, 32.8339 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

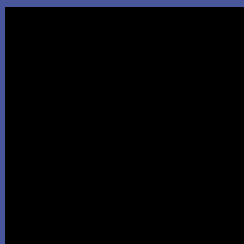
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.0010, 10.4336, 32.8339

Background



This preview shows how black text looks on a background with the XYZ color 12.0010, 10.4336, 32.8339.



This preview shows how white text looks on a background with the XYZ color 12.0010, 10.4336,

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

12.0010, 10.4336, 32.8339

Protanopia

11.4649, 10.3779, 33.7466

Deuteranopia

10.7822, 10.5563, 32.4796



Tritanopia

8.3458, 10.3536, 14.9232

Trichromacy



Original Color

12.0010, 10.4336, 32.8339

Protanomaly

11.6084, 10.3407, 33.2824

Deuteranomaly

11.0939, 10.4632, 32.4452

Tritanomaly

9.4769, 10.2760, 20.5528

Monochromacy



Original Color

12.0010, 10.4336, 32.8339

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

10.1769, 10.1987, 17.3517

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0010, 10.4336, 32.8339 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(72, 86, 156)` looks like.

```
.text, #text, p{  
    color:rgb(72, 86, 156)  
}
```

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(72, 86, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 86, 156) }
```

Border

The CSS property to change the border of an element to XYZ 12.0010, 10.4336, 32.8339 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(72, 86, 156) }
```


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

```
.border{ border-color:rgb(72, 86, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 86, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 86, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 86, 156);  
box-shadow:4px 4px 4px 4px rgb(72, 86,  
156) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0010, 10.4336, 32.8339 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 86, 156) }
```

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

```
.background{ background-color: rgb(72, 86,  
156) }
```

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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