

Converting Colors

XYZ(12.7865, 15.9700, 23.3480)

Have a look what the booklet for
XYZ(12.7865, 15.9700, 23.3480)
contains.

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Color

**XYZ(12.7392, 15.9024,
23.1669)**

Conversions

Conversions Part 1

Format	Color
Hex	417781
RGB	65, 119, 129
RGB Percent	25%, 47%, 51%
CMY	0.7451, 0.5333, 0.4941
CMYK	0.50, 0.08, 0.00, 0.49
HSL	189°, 33%, 38%
HSV	189°, 50%, 51%
XYZ	12.7392, 15.9024, 23.1669
YIQ	103.9940, -35.3940, -8.3380

Conversions

Conversions Part 2

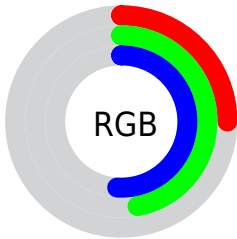
Format	Color
R _{YB}	65, 94, 129
Decimal	4290433
CIE _{Lab}	46.85, -15.01, -11.04
CIE _{LCh}	47, 18.633, 216.347
Y _{xy}	15.9024, 0.2459, 0.3069
Android (android.graphics.Color)	4282480513 (0xFF417781)
YUV	103.9940, 12.3280, -34.1977
Hunter-Lab	39.8778, -12.7633, -6.5299

Details

The XYZ color **12.7392, 15.9024, 23.1669** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.5237, 10.0812, 6.2872**, and the grayscale version is **13.1317, 13.8156, 15.0452**.

A 20% lighter version of the original color is **30.3425, 36.2851, 49.6605**, and **3.6882, 4.9853, 8.3573** is the 20% darker color. If you saturate the color by 10%, you get **11.7437, 15.0372, 23.0527**, and if you desaturate by 10%, it is **13.9359, 16.8796, 23.2927**.

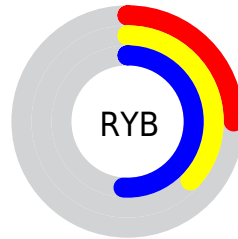
Distribution



Red (25%)

Green (47%)

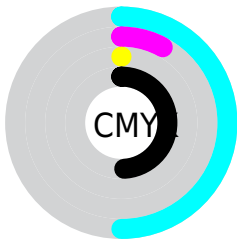
Blue (51%)



Red (25%)

Yellow (37%)

Blue (51%)

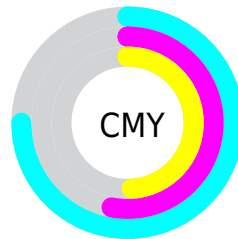


Cyan (50%)

Magenta (8%)

Yellow (0%)

Black (49%)



Cyan (75%)

Magenta (53%)

Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7392, 15.9024, 23.1669 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 12.7392, 15.9024, 23.1669 by changing the saturation by 10% instead.

■ 12.7392, 15.9024,
23.1669

■ 12.7392, 15.9024,
23.1669

202.9110,
228.7651, 281.7307

■ 7.3250, 9.4551,
14.5103

■ 30.4398, 36.4287,
49.5939

■ 3.7143, 5.0392,
8.3337

■ 43.4568, 51.2765,
68.2014

■ 1.5418, 2.2703,
4.2184

■ 59.7388, 69.6932,
90.9630

■ 0.3540, 0.7579,
1.7459

■ 79.6512, 92.0633,
118.2972

■ 0.0000, 0.0000,
0.3919

■ 103.5592,
118.7712, 150.6225

■ 0.0000, 0.0000,
0.0000

131.8283,

150.2011, 188.3575

164.8237,
186.7377, 231.9207

■ 12.7392, 15.9024,
23.1669

■ 12.7392, 15.9024,
23.1669

■ 11.7437, 15.0372,
23.0527

■ 13.9359, 16.8796,
23.2927

■ 10.9343, 14.2751,
22.9482

■ 15.3445, 17.9732,
23.4296

■ 10.2964, 13.6090,
22.8533

■ 16.9767, 19.1898,
23.5784

■ 9.8124, 13.0295,
22.7669

■ 18.8430, 20.5347,
23.7396

■ 9.4294, 12.5094,
22.6867

■ 20.9530, 22.0130,
23.9137

■ 9.4147, 12.4895,
22.6836

■ 23.3161, 23.6295,
24.1012

■ 25.9409, 25.3888,
24.3024

■ 28.8357, 27.2951,
24.5178

■ 32.0085, 29.3527,
24.7477

Harmonies

Analogous

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



12.2220, 15.9024, 18.3213



12.7392, 15.9024, 23.1669



13.8976, 15.9024, 26.8535

Triad

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



12.7392, 15.9024, 23.1669



18.1555, 15.9024, 21.1517



14.7726, 15.9024, 9.8681

Complementary

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



12.7392, 15.9024, 23.1669



12.5237, 10.0812, 6.2872

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.



16.4009, 15.9024, 10.3541



12.7392, 15.9024, 23.1669



18.4314, 15.9024, 16.3462

Square

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



12.7392, 15.9024, 23.1669



17.0397, 15.9024, 25.5522



17.7687, 15.9024, 12.5422



13.3406, 15.9024, 11.0709

Rectangle

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



12.7392, 15.9024, 23.1669



14.9169, 15.9024, 27.8467



17.7687, 15.9024, 12.5422



15.3144, 15.9024, 9.8430

Sweetspot

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



12.7397, 15.9030, 23.1673



31.7723, 35.3614, 42.3433



11.2869, 17.3272, 9.3351



7.0616, 7.9097, 9.5729



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.



12.7397, 15.9030, 23.1673



20.7460, 26.6697, 41.2468



9.5835, 9.5906, 22.1152



4.3910, 4.7761, 5.5037



9.1818, 12.1821, 22.1174



0.0000, 0.0000, 0.0000

Inverse Universe

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



14.2737, 9.7800, 18.5888



23.9491, 14.6944, 31.5050



15.2238, 15.4813, 7.1872



4.4702, 4.4012, 5.2806



11.5115, 5.6243, 14.5493



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.7392, 15.9024, 23.1669 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 12.7392, 15.9024, 23.1669 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

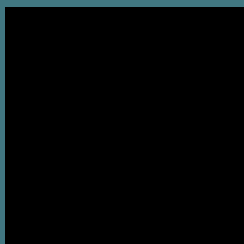
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7392, 15.9024, 23.1669

Background



This preview shows how black text looks on a background with the XYZ color 12.7392, 15.9024, 23.1669.

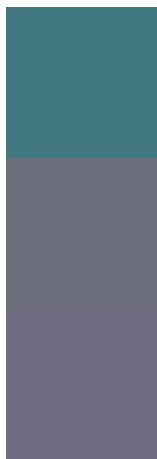


This preview shows how white text looks on a background with the XYZ color 12.7392, 15.9024,

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

12.7392, 15.9024, 23.1669

Protanopia

15.4578, 15.8331, 20.9803

Deuteranopia

16.0148, 15.7433, 23.6674



Tritanopia

12.7392, 15.9024, 23.1669

Trichromacy



Original Color

12.7392, 15.9024, 23.1669

Protanomaly

14.1210, 15.6181, 21.6724

Deuteranomaly

14.4395, 15.5797, 23.3652

Tritanomaly

12.7392, 15.9024, 23.1669

Monochromacy



Original Color

12.7392, 15.9024, 23.1669

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.6657, 14.3032, 17.7160

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7392, 15.9024, 23.1669 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, 119, 129)` looks like.

```
.text, #text, p{  
    color:rgb(65, 119, 129)  
}
```

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, 119, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 119, 129) }
```

Border

The CSS property to change the border of an element to XYZ 12.7392, 15.9024, 23.1669 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, 119, 129) }
```


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

```
.border{ border-color:rgb(65, 119, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 119, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 119, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 119, 129);  
box-shadow:4px 4px 4px 4px rgb(65, 119,  
129) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7392, 15.9024, 23.1669 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 119, 129) }
```

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

```
.background{ background-color: rgb(65, 119,  
129) }
```

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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