

Converting Colors

XYZ(12.8247, 17.2356, 20.2920)

Have a look what the booklet for
XYZ(12.8247, 17.2356, 20.2920)
contains.

XYZ(12.9009, 17.3345, 20.4352)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.9009, 17.3345,
20.4352)**

Conversions

Conversions Part 1

Format	Color
Hex	3F7E78
RGB	63, 126, 120
RGB Percent	25%, 49%, 47%
CMY	0.7529, 0.5059, 0.5294
CMYK	0.50, 0.00, 0.05, 0.51
HSL	174°, 33%, 37%
HSV	174°, 50%, 49%
XYZ	12.9009, 17.3345, 20.4352
YIQ	106.4790, -35.6220, -15.2220

Conversions

Conversions Part 2

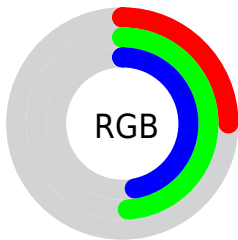
Format	Color
RYB	63, 96, 126
Decimal	4161144
CIELab	48.68, -21.83, -2.99
CIELCh	49, 22.033, 187.807
Yxy	17.3345, 0.2546, 0.3421
Android (android.graphics.Color)	4282351224 (0xFF3F7E78)
YUV	106.4790, 6.6659, -38.1311
Hunter-Lab	41.6347, -17.5509, 0.0435

Details

The XYZ color **12.9009, 17.3345, 20.4352** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.4564, 8.4208, 6.6524**, and the grayscale version is **13.8208, 14.5406, 15.8347**.

A 20% lighter version of the original color is **30.7690, 38.9318, 44.9226**, and **3.8236, 5.7756, 7.0442** is the 20% darker color. If you saturate the color by 10%, you get **12.1142, 16.9377, 20.0208**, and if you desaturate by 10%, it is **13.8737, 17.8279, 20.8638**.

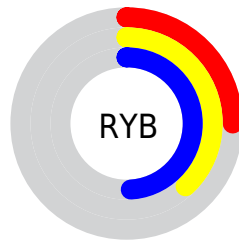
Distribution



Red (25%)

Green (49%)

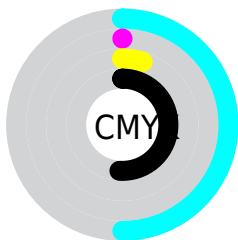
Blue (47%)



Red (25%)

Yellow (38%)

Blue (49%)

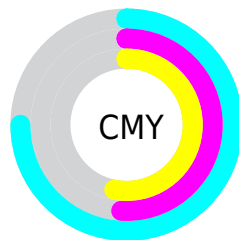


Cyan (50%)

Magenta (0%)

Yellow (5%)

Black (51%)



Cyan (75%)

Magenta (51%)

Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9009, 17.3345, 20.4352 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 12.9009, 17.3345, 20.4352 by changing the saturation by 10% instead.

■ 12.9009, 17.3345,
20.4352

■ 12.9009, 17.3345,
20.4352

203.9320,
237.0927, 266.9432

■ 7.4369, 10.4733,
12.5246

■ 30.7285, 38.9000,
45.0142

■ 3.7855, 5.7139,
6.9751

■ 43.8227, 54.3731,
62.5196

■ 1.5815, 2.6719,
3.3683

■ 60.1911, 73.4855,
84.0603

■ 0.3803, 0.9629,
1.2857

■ 80.1989, 96.6218,
110.0550

■ 0.0000, 0.0000,
0.0500

■ 104.2116,
124.1663, 140.9220

■ 0.0000, 0.0000,
0.0000

132.5944,

156.5033, 177.0801

165.7128,
194.0173, 218.9476

■ 12.9009, 17.3345,
20.4352

■ 12.9009, 17.3345,
20.4352

■ 12.1142, 16.9377,
20.0208

■ 13.8737, 17.8279,
20.8638

■ 11.4995, 16.6291,
19.6189

■ 15.0427, 18.4220,
21.3060

■ 11.0427, 16.4018,
19.2291

■ 16.4189, 19.1228,
21.7627

■ 10.7273, 16.2472,
18.8506

■ 18.0122, 19.9354,
22.2343

■ 10.4984, 16.1371,
18.4809

■ 19.8319, 20.8646,
22.7214

■ 10.4983, 16.1371,
18.4808

■ 21.8865, 21.9148,
23.2244

■ 24.1844, 23.0902,
23.7436

■ 26.7333, 24.3950,
24.2794

■ 29.5407, 25.8329,
24.8322

Harmonies

Analogous

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



13.1172, 17.3345, 14.9561



12.9009, 17.3345, 20.4352



13.5783, 17.3345, 26.5965

Triad

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



12.9009, 17.3345, 20.4352



18.9884, 17.3345, 29.1649



17.9959, 17.3345, 10.2951

Complementary

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



12.9009, 17.3345, 20.4352



11.4564, 8.4208, 6.6524

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.



19.7590, 17.3345, 12.8134



12.9009, 17.3345, 20.4352



20.3640, 17.3345, 23.4233

Square

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



12.9009, 17.3345, 20.4352



17.0123, 17.3345, 32.2693



20.6570, 17.3345, 17.3950



15.9510, 17.3345, 9.8186

Rectangle

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



12.9009, 17.3345, 20.4352



14.4811, 17.3345, 30.0131



20.6570, 17.3345, 17.3950



18.6460, 17.3345, 10.9016

Sweetspot

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



12.9014, 17.3352, 20.4356



30.1549, 34.2989, 38.6883



10.8342, 16.5575, 7.3279



6.7513, 7.7468, 8.7678



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.9014, 17.3352, 20.4356



21.1534, 29.7277, 35.1392



10.4506, 11.8323, 21.4724



4.4293, 4.8801, 5.4321



10.7691, 16.5542, 18.9545



0.0000, 0.0000, 0.0000

Inverse Universe

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



11.4564, 8.4208, 6.6524



18.3083, 12.1231, 7.9615



13.0081, 11.8074, 6.2965



4.3431, 4.3504, 4.6114



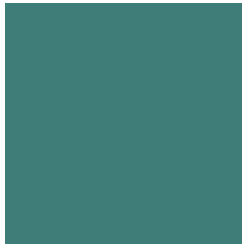
8.8943, 4.5774, 0.7673



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.9009, 17.3345, 20.4352 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 12.9009, 17.3345, 20.4352 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 12.9009, 17.3345, 20.4352

Background



This preview shows how black text looks on a background with the XYZ color 12.9009, 17.3345, 20.4352.



This preview shows how white text looks on a background with the XYZ color 12.9009, 17.3345,

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

12.9009, 17.3345, 20.4352

Protanopia

16.3341, 17.0088, 18.0449

Deuteranopia

17.5377, 17.2294, 21.1402



Tritanopia

13.8946, 17.3655, 25.1738

Trichromacy



Original Color

12.9009, 17.3345, 20.4352

Protanomaly

14.5606, 16.7592, 18.9904

Deuteranomaly

15.2410, 16.8944, 20.8700

Tritanomaly

13.5428, 17.4105, 23.4157

Monochromacy



Original Color

12.9009, 17.3345, 20.4352

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

12.9908, 15.1316, 17.2749

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9009, 17.3345, 20.4352 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(63, 126, 120)` looks like.

```
.text, #text, p{  
    color:rgb(63, 126, 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(63, 126, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 126, 120) }
```

Border

The CSS property to change the border of an element to XYZ 12.9009, 17.3345, 20.4352 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(63, 126, 120) }
```


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

```
.border{ border-color:rgb(63, 126, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 126, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 126, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 126, 120);  
box-shadow:4px 4px 4px 4px rgb(63, 126,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9009, 17.3345, 20.4352 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 126, 120) }
```

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

```
.background{ background-color: rgb(63, 126,  
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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