

Converting Colors

XYZ(12.3810, 17.1583, 22.9096)

Have a look what the booklet for
XYZ(12.3810, 17.1583, 22.9096)
contains.

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Color

**XYZ(12.4405, 17.2295,
23.0920)**

Conversions

Conversions Part 1

Format	Color
Hex	2A7F80
RGB	42, 127, 128
RGB Percent	16%, 50%, 50%
CMY	0.8353, 0.5020, 0.4980
CMYK	0.67, 0.01, 0.00, 0.50
HSL	181°, 51%, 33%
HSV	181°, 67%, 50%
XYZ	12.4405, 17.2295, 23.0920
YIQ	101.6990, -50.9810, -17.7090

Conversions

Conversions Part 2

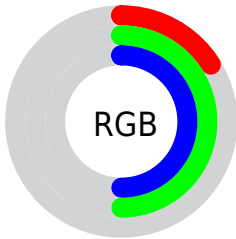
Format	Color
RYB	42, 85, 128
Decimal	2785152
CIELab	48.55, -24.36, -7.98
CIELCh	49, 25.633, 198.140
Yxy	17.2295, 0.2358, 0.3266
Android (android.graphics.Color)	4280975232 (0xFF2A7F80)
YUV	101.6990, 12.9664, -52.3560
Hunter-Lab	41.5084, -19.1415, -3.9284

Details

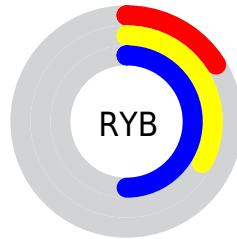
The XYZ color **12.4405, 17.2295, 23.0920** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **10.1842, 6.4845, 2.9058**, and the grayscale version is **12.5282, 13.1807, 14.3537**.

A 20% lighter version of the original color is **29.9173, 38.6880, 49.6068**, and **4.0652, 5.8723, 8.3163** is the 20% darker color. If you saturate the color by 10%, you get **11.9793, 16.9636, 23.0653**, and if you desaturate by 10%, it is **13.0701, 17.5830, 23.1274**.

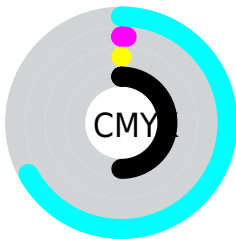
Distribution



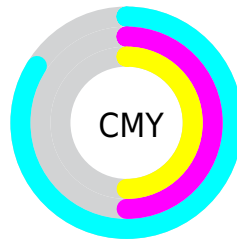
- Red (16%)
- Green (50%)
- Blue (50%)



- Red (16%)
- Yellow (33%)
- Blue (50%)



- Cyan (67%)
- Magenta (1%)
- Yellow (0%)
- Black (50%)



- Cyan (84%)
- Magenta (50%)
- Yellow (50%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4405, 17.2295, 23.0920 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 12.4405, 17.2295, 23.0920 by changing the saturation by 10% instead.

■ 12.4405, 17.2295,
23.0920

■ 12.4405, 17.2295,
23.0920

■ 201.0110,
236.4915, 281.3344

■ 7.1187, 10.3983,
14.4555

■ 29.9048, 38.7199,
49.4695

■ 3.5835, 5.6638,
8.2958

■ 42.7781, 54.1479,
68.0475

■ 1.4693, 2.6417,
4.1943

■ 58.8993, 73.2103,
90.7765

■ 0.3048, 0.9477,
1.7325

■ 78.6337, 96.2914,
118.0750

■ 0.0000, 0.0000,
0.3829

■ 102.3468,
123.7757, 150.3614

■ 0.0000, 0.0000,
0.0000

■ 130.4037,

156.0475, 188.0545

163.1700,
193.4913, 231.5726

■ 12.4405, 17.2295,
23.0920

■ 12.4405, 17.2295,
23.0920

■ 11.9793, 16.9636,
23.0653

■ 13.0701, 17.5830,
23.1274

■ 11.6683, 16.7749,
23.0453

■ 13.8809, 18.0295,
23.1708

■ 11.4736, 16.6461,
23.0307

■ 14.8863, 18.5764,
23.2234

■ 11.4231, 16.6121,
23.0268

■ 16.0980, 19.2298,
23.2856

■ 17.5268, 19.9950,
23.3580

■ 19.1828, 20.8774,
23.4411

■ 21.0752, 21.8818,
23.5352

■ 23.2131, 23.0127,
23.6408

■ 25.6047, 24.2746,
23.7583

Harmonies

Analogous

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



12.3340, 17.2295, 16.2200



12.4405, 17.2295, 23.0920



13.5376, 17.2295, 30.1649

Triad

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



12.4405, 17.2295, 23.0920



19.9837, 17.2295, 28.8078



17.3241, 17.2295, 8.7188

Complementary

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



12.4405, 17.2295, 23.0920



10.1842, 6.4845, 2.9058

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.



19.5860, 17.2295, 10.6672



12.4405, 17.2295, 23.0920



21.2170, 17.2295, 21.5522

Square

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



12.4405, 17.2295, 23.0920



17.8261, 17.2295, 33.9712



21.0649, 17.2295, 15.0068



15.0070, 17.2295, 8.9411

Rectangle

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



12.4405, 17.2295, 23.0920



14.7480, 17.2295, 33.5454



21.0649, 17.2295, 15.0068



18.1199, 17.2295, 9.1179

Sweetspot

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



12.4410, 17.2302, 23.0924



29.9909, 34.7402, 41.0811



9.0923, 16.0981, 4.8190



6.8812, 8.0584, 9.6111



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.



12.4410, 17.2302, 23.0924



20.7496, 29.6622, 40.5880



8.1001, 8.5483, 21.6454



4.4423, 4.8786, 5.5208



11.3267, 16.4720, 22.8324



0.0000, 0.0000, 0.0000

Inverse Universe

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



13.5613, 7.7779, 20.8659



22.8945, 11.7731, 36.2781



12.5689, 11.2539, 3.7007



4.4961, 4.4116, 5.4168



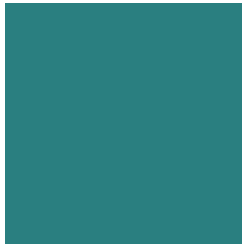
12.5942, 6.0574, 20.2505



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.4405, 17.2295, 23.0920 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 12.4405, 17.2295, 23.0920 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 12.4405, 17.2295, 23.0920

Background



This preview shows how black text looks on a background with the XYZ color 12.4405, 17.2295, 23.0920.

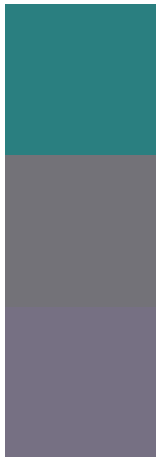


This preview shows how white text looks on a background with the XYZ color 12.4405, 17.2295,

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

12.4405, 17.2295, 23.0920

Protanopia

16.4777, 17.0355, 20.1890

Deuteranopia

17.3621, 17.0786, 23.8541



Tritanopia

13.0315, 17.2801, 25.9411

Trichromacy



Original Color

12.4405, 17.2295, 23.0920

Protanomaly

14.1965, 16.6984, 21.2138

Deuteranomaly

14.6070, 16.5079, 23.5356

Tritanomaly

12.7767, 17.1731, 24.8316

Monochromacy



Original Color

12.4405, 17.2295, 23.0920

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

11.8619, 14.2220, 17.1589

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4405, 17.2295, 23.0920 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(42, 127, 128)` looks like.

```
.text, #text, p{  
    color:rgb(42, 127, 128)  
}
```

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(42, 127, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 127, 128) }
```

Border

The CSS property to change the border of an element to XYZ 12.4405, 17.2295, 23.0920 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(42, 127, 128) }
```


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

```
.border{ border-color:rgb(42, 127, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 127, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 127, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 127, 128);  
box-shadow:4px 4px 4px 4px rgb(42, 127,  
128) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4405, 17.2295, 23.0920 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 127, 128) }
```

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

```
.background{ background-color: rgb(42, 127,  
128) }
```

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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