

Converting Colors

XYZ(12.8389, 17.0777, 22.0217)

Have a look what the booklet for
XYZ(12.8389, 17.0777, 22.0217)
contains.

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Color

**XYZ(12.8389, 17.0777,
22.0217)**

Conversions

Conversions Part 1

Format	Color
Hex	3B7D7D
RGB	59, 125, 125
RGB Percent	23%, 49%, 49%
CMY	0.7686, 0.5098, 0.5098
CMYK	0.53, 0.00, 0.00, 0.51
HSL	180°, 36%, 36%
HSV	180°, 53%, 49%
XYZ	12.8389, 17.0777, 22.0217
YIQ	105.2660, -39.3360, -13.9920

Conversions

Conversions Part 2

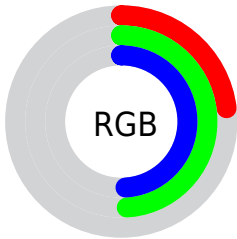
Format	Color
RYB	59, 92, 125
Decimal	3898749
CIELab	48.36, -20.86, -6.44
CIElCh	48, 21.828, 197.149
Yxy	17.0777, 0.2472, 0.3288
Android (android.graphics.Color)	4282088829 (0xFF3B7D7D)
YUV	105.2660, 9.7289, -40.5753
Hunter-Lab	41.3252, -16.8627, -2.6673

Details

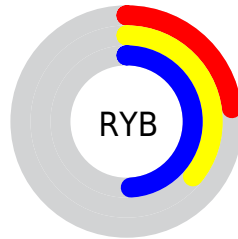
The XYZ color **12.8389, 17.0777, 22.0217** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **10.8114, 7.8041, 5.0747**, and the grayscale version is **13.4819, 14.1840, 15.4464**.

A 20% lighter version of the original color is **30.6384, 38.4999, 47.9359**, and **3.8889, 5.6907, 7.7309** is the 20% darker color. If you saturate the color by 10%, you get **12.1851, 16.7410, 21.9914**, and if you desaturate by 10%, it is **13.6712, 17.5072, 22.0611**.

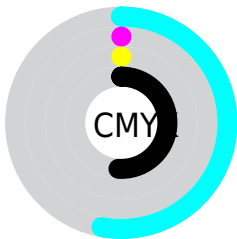
Distribution



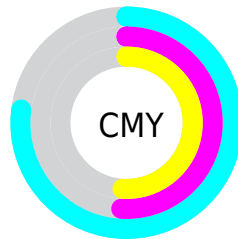
- Red (23%)
- Green (49%)
- Blue (49%)



- Red (23%)
- Yellow (36%)
- Blue (49%)



- Cyan (53%)
- Magenta (0%)
- Yellow (0%)
- Black (51%)



- Cyan (77%)
- Magenta (51%)
- Yellow (51%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8389, 17.0777, 22.0217 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 12.8389, 17.0777, 22.0217 by changing the saturation by 10% instead.

■ 12.8389, 17.0777,
22.0217

■ 12.8389, 17.0777,
22.0217

203.5411,
235.6197, 275.6168

■ 7.3939, 10.2899,
13.6744

■ 30.6178, 38.4593,
47.6845

■ 3.7582, 5.5916,
7.7584

■ 43.6825, 53.8219,
65.8371

■ 1.5663, 2.5984,
3.8552

■ 60.0178, 72.8116,
88.0951

■ 0.3703, 0.9258,
1.5462

■ 79.9891, 95.8127,
114.8772

■ 0.0000, 0.0000,
0.2520

■ 103.9617,
123.2097, 146.6019

■ 0.0000, 0.0000,
0.0000

132.3010,

155.3870, 183.6877

165.3724,
192.7288, 226.5531

■ 12.8389, 17.0777,
22.0217

■ 12.8389, 17.0777,
22.0217

■ 12.1851, 16.7410,
21.9914

■ 13.6712, 17.5072,
22.0611

■ 11.6954, 16.4886,
21.9684

■ 14.6921, 18.0334,
22.1090

■ 11.3556, 16.3134,
21.9524

■ 15.9127, 18.6627,
22.1662

■ 11.1482, 16.2065,
21.9427

■ 17.3428, 19.3999,
22.2332

■ 11.0356, 16.1484,
21.9373

■ 18.9916, 20.2499,
22.3104

■ 20.8679, 21.2172,
22.3983

■ 22.9796, 22.3058,
22.4972

■ 25.3347, 23.5199,
22.6075

■ 27.9405, 24.8632,
22.7295

Harmonies

Analogous

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



12.7754, 17.0777, 16.2592



12.8389, 17.0777, 22.0217



13.7629, 17.0777, 27.8558

Triad

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



12.8389, 17.0777, 22.0217



19.2061, 17.0777, 27.1008



17.0991, 17.0777, 9.8167

Complementary

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



12.8389, 17.0777, 22.0217



10.8114, 7.8041, 5.0747

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.



18.9797, 17.0777, 11.6541



12.8389, 17.0777, 22.0217



20.2615, 17.0777, 21.1438

Square

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



12.8389, 17.0777, 22.0217



17.3881, 17.0777, 31.1750



20.1754, 17.0777, 15.5431



15.1280, 17.0777, 9.9565

Rectangle

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



12.8389, 17.0777, 22.0217



14.7889, 17.0777, 30.6511



20.1754, 17.0777, 15.5431



17.7657, 17.0777, 10.2047

Sweetspot

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



12.8394, 17.0784, 22.0221



30.0925, 34.2428, 39.7676



9.9931, 15.9474, 6.6895



6.7483, 7.7391, 9.0411



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.



12.8394, 17.0784, 22.0221



21.6481, 29.8896, 39.3718



9.4289, 10.2573, 20.8857



4.4464, 4.8869, 5.5222



11.5174, 16.8535, 22.8952



0.0000, 0.0000, 0.0000

Inverse Universe

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



10.8114, 7.8041, 5.0747



17.6071, 11.4101, 5.6030



12.9800, 12.1414, 5.7974



4.3278, 4.3443, 4.5306



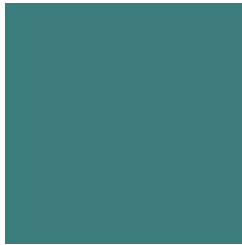
8.8271, 4.5505, 0.4132



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.8389, 17.0777, 22.0217 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 12.8389, 17.0777, 22.0217 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

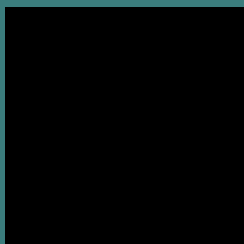
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8389, 17.0777, 22.0217

Background



This preview shows how black text looks on a background with the XYZ color 12.8389, 17.0777, 22.0217.



This preview shows how white text looks on a background with the XYZ color 12.8389, 17.0777,

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

12.8389, 17.0777, 22.0217

Protanopia

16.3576, 16.9875, 19.5563

Deuteranopia

17.1885, 16.8493, 22.7684



Tritanopia

13.4973, 17.1607, 25.1552

Trichromacy



Original Color

12.8389, 17.0777, 22.0217

Protanomaly

14.6489, 16.7702, 20.5541

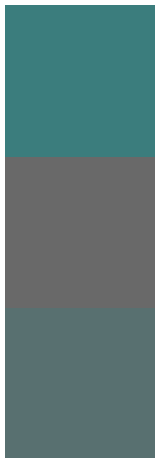
Deuteranomaly

15.0059, 16.5645, 22.4850

Tritanomaly

13.2289, 17.0461, 24.0657

Monochromacy



Original Color

12.8389, 17.0777, 22.0217

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.7433, 14.8329, 17.5206

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8389, 17.0777, 22.0217 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(59, 125, 125)` looks like.

```
.text, #text, p{  
    color:rgb(59, 125, 125)  
}
```

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(59, 125, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 125, 125) }
```

Border

The CSS property to change the border of an element to XYZ 12.8389, 17.0777, 22.0217 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(59, 125, 125) }
```


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

```
.border{ border-color:rgb(59, 125, 125) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 125, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 125, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 125, 125);  
box-shadow:4px 4px 4px 4px rgb(59, 125,  
125) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8389, 17.0777, 22.0217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 125, 125) }
```

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

```
.background{ background-color: rgb(59, 125,  
125) }
```

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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