

Converting Colors

XYZ(12.0452, 20.4374, 33.2795)

Have a look what the booklet for
XYZ(12.0452, 20.4374, 33.2795)
contains.

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Color

**XYZ(15.7230, 22.2464,
33.6023)**

Conversions

Conversions Part 1

Format	Color
Hex	009099
RGB	0, 144, 153
RGB Percent	0%, 56%, 60%
CMY	0.9999, 0.4353, 0.4000
CMYK	1.00, 0.06, 0.00, 0.40
HSL	184°, 100%, 30%
HSV	184°, 100%, 60%
XYZ	15.7230, 22.2464, 33.6023
YIQ	101.9700, -88.7130, -27.7290

Conversions

Conversions Part 2

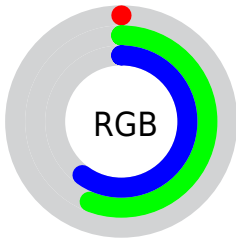
Format	Color
RYB	0, 74, 153
Decimal	37017
CIELab	54.29, -28.49, -13.97
CIELCh	54, 31.729, 206.122
Yxy	22.2464, 0.2197, 0.3108
Android (android.graphics.Color)	4278227097 (0xFF009099)
YUV	101.9700, 25.1578, -89.4277
Hunter-Lab	47.1661, -23.0370, -9.2234

Details

The XYZ color **15.7230, 22.2464, 33.6023** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **13.2351, 6.9683, 0.6481**, and the grayscale version is **12.5764, 13.2314, 14.4090**.

A 20% lighter version of the original color is **35.5764, 47.0170, 66.2316**, and **6.3126, 8.7880, 13.9339** is the 20% darker color. If you saturate the color by 10%, you get **15.7232, 22.2467, 33.6028**, and if you desaturate by 10%, it is **16.0626, 22.6251, 33.6579**.

Distribution



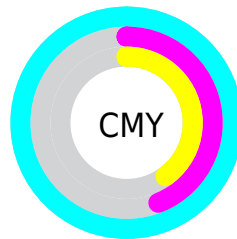
- Red (0%)
- Green (56%)
- Blue (60%)



- Red (0%)
- Yellow (29%)
- Blue (60%)



- Cyan (100%)
- Magenta (6%)
- Yellow (0%)
- Black (40%)



- Cyan (100%)
- Magenta (44%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 15.7230, 22.2464, 33.6023 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 15.7230, 22.2464, 33.6023 by changing the saturation by 10% instead.

15.7230, 22.2464,
33.6023

15.7230, 22.2464,
33.6023

221.0043,
263.8303, 333.0699

9.4180, 14.0381,
22.3134

35.6780, 47.1529,
66.4415

5.0741, 8.1471,
13.8868

50.0586, 64.6199,
88.8289

2.3260, 4.1892,
7.9041

67.8619, 85.9418,
115.7529

0.8079, 1.7800,
3.9468

89.4531, 111.5032,
147.6319

0.0000, 0.4746,
1.5962

115.1975,
141.6883, 184.8846

0.0000, 0.0000,
0.2881

145.4607,

0.0000, 0.0000,

176.8816, 227.9295

0.0000

180.6078,
217.4675, 277.1851

■ 15.7230, 22.2464,
33.6023

■ 15.7230, 22.2464,
33.6023

■ 15.7232, 22.2467,
33.6028

■ 16.0626, 22.6251,
33.6579

■ 16.5520, 23.0822,
33.7204

■ 17.2605, 23.6539,
33.7934

■ 18.2157, 24.3543,
33.8782

■ 19.4409, 25.1956,
33.9760

■ 20.9570, 26.1885,
34.0878

■ 22.7827, 27.3427,
34.2143

■ 24.9351, 28.6669,
34.3565

■ 27.4302, 30.1693,
34.5150

Harmonies

Analogous

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



15.1848, 22.2464, 22.9584



15.7230, 22.2464, 33.6023



17.6533, 22.2464, 43.7011

Triad

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



15.7230, 22.2464, 33.6023



27.1536, 22.2464, 36.4515



21.5970, 22.2464, 9.7668

Complementary

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



15.7230, 22.2464, 33.6023



13.2351, 6.9683, 0.6481

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.



25.0681, 22.2464, 11.6113



15.7230, 22.2464, 33.6023



28.4894, 22.2464, 25.5322

Square

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



15.7230, 22.2464, 33.6023



24.2065, 22.2464, 45.6360



27.6879, 22.2464, 16.7742



18.3523, 22.2464, 10.8409

Rectangle

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



15.7230, 22.2464, 33.6023



19.5908, 22.2464, 47.7862



27.6879, 22.2464, 16.7742



22.7784, 22.2464, 10.0489

Sweetspot

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



15.7237, 22.2472, 33.6028



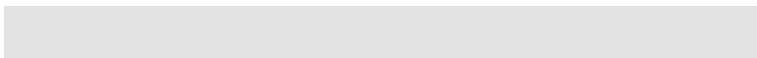
40.5857, 48.8328, 61.2586



11.4337, 22.7997, 4.0185



8.6718, 10.6008, 13.5066



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



15.7237, 22.2472, 33.6028



28.1099, 39.7443, 60.1618



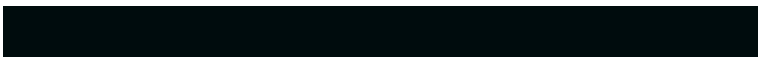
7.8698, 6.5395, 30.9849



6.3535, 6.9643, 7.9384



13.0033, 18.4033, 27.7745



0.2025, 0.2914, 0.4179

Inverse Universe

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



18.1715, 8.7866, 27.1246



32.5177, 15.7249, 48.4472



16.3200, 13.1381, 1.6764



6.4455, 6.3174, 7.7263



15.0222, 7.2631, 22.4399



0.2287, 0.1102, 0.3570

Previews

White Background



This preview shows how the XYZ color 15.7230, 22.2464, 33.6023 looks on a white background.

Color Contrast Check

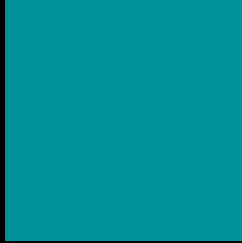
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 15.7230, 22.2464, 33.6023 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

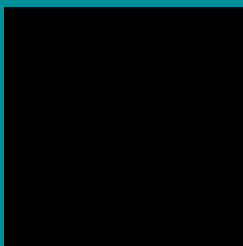
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

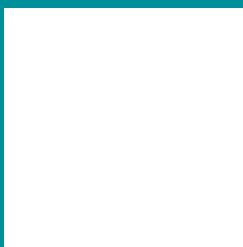
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 15.7230, 22.2464, 33.6023

Background



This preview shows how black text looks on a background with the XYZ color 15.7230, 22.2464, 33.6023.



This preview shows how white text looks on a background with the XYZ color 15.7230, 22.2464,

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

15.7230, 22.2464, 33.6023

Protanopia

21.5792, 22.0107, 29.0977

Deuteranopia

22.4487, 21.9452, 34.9510



Tritanopia

16.0708, 22.4064, 34.4882

Trichromacy



Original Color

15.7230, 22.2464, 33.6023

Protanomaly

17.1849, 20.9061, 30.7333

Deuteranomaly

17.7816, 20.9247, 34.5542

Tritanomaly

15.9187, 22.3377, 34.0445

Monochromacy



Original Color

15.7230, 22.2464, 33.6023

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

11.9925, 15.2269, 20.3962

CSS Examples

Text

The CSS property to change the color of the text to XYZ 15.7230, 22.2464, 33.6023 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(0, 144, 153)` looks like.

```
.text, #text, p{  
    color:rgb(0, 144, 153)  
}
```

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(0, 144, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 144, 153) }
```

Border

The CSS property to change the border of an element to XYZ 15.7230, 22.2464, 33.6023 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(0, 144, 153) }
```


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

```
.border{ border-color:rgb(0, 144, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 144, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 144, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 144, 153);  
box-shadow:4px 4px 4px 4px rgb(0, 144,  
153) }
```

Background

The CSS property to change the background color of an element to XYZ 15.7230, 22.2464, 33.6023 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 144, 153) }
```

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

```
.background{ background-color: rgb(0, 144,  
153) }
```

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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