

Converting Colors

XYZ(22.3770, 34.2778, 47.7766)

Have a look what the booklet for
XYZ(22.3770, 34.2778, 47.7766)
contains.

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Color

**XYZ(23.9563, 35.0551,
47.6232)**

Conversions

Conversions Part 1

Format	Color
Hex	00B2B2
RGB	0, 178, 178
RGB Percent	0%, 70%, 70%
CMY	0.9999, 0.3020, 0.3020
CMYK	1.00, 0.00, 0.00, 0.30
HSL	180°, 100%, 35%
HSV	180°, 100%, 70%
XYZ	23.9563, 35.0551, 47.6232
YIQ	124.7780, -106.0880, -37.7360

Conversions

Conversions Part 2

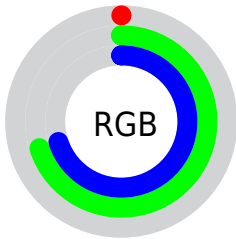
Format	Color
RYB	0, 89, 178
Decimal	45746
CIELab	65.79, -36.71, -10.80
CIELCh	66, 38.267, 196.387
Yxy	35.0551, 0.2247, 0.3287
Android (android.graphics.Color)	4278235826 (0xFF00B2B2)
YUV	124.7780, 26.2384, -109.4303
Hunter-Lab	59.2073, -31.3887, -6.2445

Details

The XYZ color **23.9563, 35.0551, 47.6232** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **18.3613, 9.4662, 0.8605**, and the grayscale version is **19.3628, 20.3711, 22.1842**.

A 20% lighter version of the original color is **49.4197, 67.4388, 88.2542**, and **11.0353, 16.1479, 21.9373** is the 20% darker color. If you saturate the color by 10%, you get **23.9569, 35.0562, 47.6240**, and if you desaturate by 10%, it is **24.2033, 35.1832, 47.6356**.

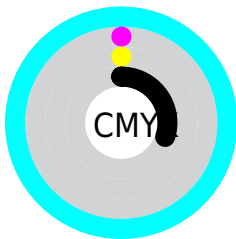
Distribution



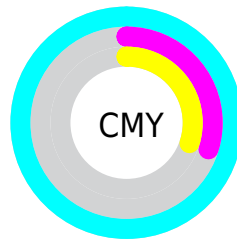
- Red (0%)
- Green (70%)
- Blue (70%)



- Red (0%)
- Yellow (35%)
- Blue (70%)



- Cyan (100%)
- Magenta (0%)
- Yellow (0%)
- Black (30%)



- Cyan (100%)
- Magenta (30%)
- Yellow (30%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.9563, 35.0551, 47.6232 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 23.9563, 35.0551, 47.6232 by changing the saturation by 10% instead.

■ 23.9563, 35.0551,
47.6232

■ 23.9563, 35.0551,
47.6232

265.0440,
324.8115, 393.7622

■ 15.4258, 23.7053,
33.1707

■ 49.4141, 67.5711,
88.0028

■ 9.2070, 15.1152,
21.9851

■ 67.0720, 89.5061,
114.7670

■ 4.9346, 8.9003,
13.6477

■ 88.5032, 115.7384,
146.4723

■ 2.2433, 4.6762,
7.7401

■ 114.0728,
146.6522, 183.5370

■ 0.7654, 2.0585,
3.8437

■ 144.1464,
182.6321, 226.3798

■ 0.0000, 0.6412,
1.5400

179.0892,

■ 0.0000, 0.0000,

224.0623, 275.4193

0.2475

219.2667,
271.3273, 331.0739

■ 0.0000, 0.0000,
0.0000

■ 23.9563, 35.0551,
47.6232

■ 23.9563, 35.0551,
47.6232

■ 23.9569, 35.0562,
47.6240

■ 24.2033, 35.1832,
47.6356

■ 24.6719, 35.4248,
47.6576

■ 25.4483, 35.8250,
47.6940

■ 26.5730, 36.4048,
47.7467

■ 28.0805, 37.1820,
47.8173

■ 30.0011, 38.1720,
47.9072

■ 32.3619, 39.3891,
48.0178

■ 35.1880, 40.8460,
48.1501

■ 38.5023, 42.5546,
48.3053

Harmonies

Analogous

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



23.8474, 35.0551, 31.3127



23.9563, 35.0551, 47.6232



26.3813, 35.0551, 65.3748

Triad

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



23.9563, 35.0551, 47.6232



41.8074, 35.0551, 63.8645



35.9383, 35.0551, 15.2342

Complementary

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



23.9563, 35.0551, 47.6232



18.3613, 9.4662, 0.8605

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.



41.3770, 35.0551, 19.8028



23.9563, 35.0551, 47.6232



45.0150, 35.0551, 45.9596

Square

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



23.9563, 35.0551, 47.6232



36.4743, 35.0551, 76.4131



44.8491, 35.0551, 30.0570



30.3508, 35.0551, 15.4461

Rectangle

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



23.9563, 35.0551, 47.6232



29.1591, 35.0551, 74.3049



44.8491, 35.0551, 30.0570



37.8564, 35.0551, 16.1907

Sweetspot

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



23.9574, 35.0564, 47.6240



58.4320, 71.2974, 87.0629



15.9587, 31.8612, 5.3098



12.5321, 15.5828, 19.2694



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



23.9574, 35.0564, 47.6240



43.4431, 63.5703, 86.3607



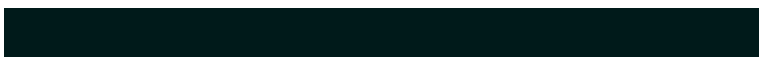
11.8626, 10.8666, 43.5930



8.7427, 9.6316, 10.9046



17.1409, 25.0823, 34.0745



0.5393, 0.7892, 1.0721

Inverse Universe

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



18.3613, 9.4662, 0.8605



33.2950, 17.1642, 1.5582



21.6930, 16.1296, 1.9711



8.4964, 8.5053, 8.8464



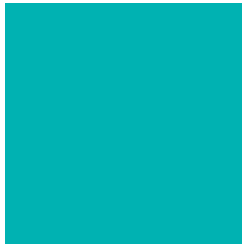
13.1369, 6.7723, 0.6148



0.4133, 0.2131, 0.0193

Previews

White Background



This preview shows how the XYZ color 23.9563, 35.0551, 47.6232 looks on a white background.

Color Contrast Check

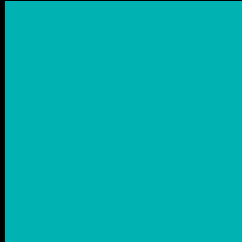
Large Text (above 18pt) WCAG AA × Fail

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 23.9563, 35.0551, 47.6232 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 ✓ Pass

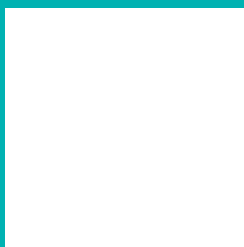
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.9563, 35.0551, 47.6232

Background



This preview shows how black text looks on a background with the XYZ color 23.9563, 35.0551, 47.6232.

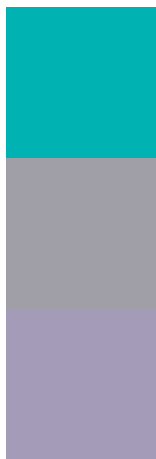


This preview shows how white text looks on a background with the XYZ color 23.9563, 35.0551,

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

23.9563, 35.0551, 47.6232

Protanopia

33.6070, 34.6805, 40.9991

Deuteranopia

35.3728, 34.6481, 49.6232



Tritanopia

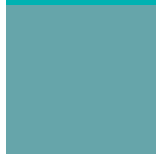
25.4153, 35.0754, 54.1459

Trichromacy



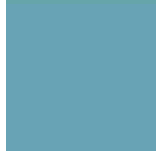
Original Color

23.9563, 35.0551, 47.6232



Protanomaly

26.1903, 32.6373, 42.9495



Deuteranomaly

27.1466, 32.4736, 48.5533



Tritanomaly

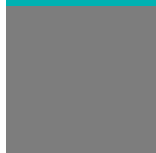
24.8736, 35.1382, 51.9257

Monochromacy



Original Color

23.9563, 35.0551, 47.6232



Achromatopsia

19.4927, 20.5079, 22.3331



Achromatomaly

18.3156, 23.6656, 29.9881

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.9563, 35.0551, 47.6232 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, 178, 178)` looks like.

```
.text, #text, p{  
    color:rgb(0, 178, 178)  
}
```

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, 178, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 178, 178) }
```

Border

The CSS property to change the border of an element to XYZ 23.9563, 35.0551, 47.6232 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, 178, 178) }
```


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

```
.border{ border-color:rgb(0, 178, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 178, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 178, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 178, 178);  
box-shadow:4px 4px 4px 4px rgb(0, 178,  
178) }
```

Background

The CSS property to change the background color of an element to XYZ 23.9563, 35.0551, 47.6232 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 178, 178) }
```

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

```
.background{ background-color: rgb(0, 178,  
178) }
```

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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