

Converting Colors

XYZ(20.7833, 36.4818, 35.5004)

Have a look what the booklet for
XYZ(20.7833, 36.4818, 35.5004)
contains.

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Color

**XYZ(23.4378, 37.8076,
35.7681)**

Conversions

Conversions Part 1

Format	Color
Hex	00BB98
RGB	0, 187, 152
RGB Percent	0%, 73%, 60%
CMY	0.9999, 0.2667, 0.4039
CMYK	1.00, 0.00, 0.19, 0.27
HSL	169°, 100%, 37%
HSV	169°, 100%, 73%
XYZ	23.4378, 37.8076, 35.7681
YIQ	127.0970, -100.2170, -50.5290

Conversions

Conversions Part 2

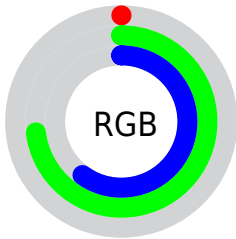
Format	Color
RYB	0, 103, 187
Decimal	48024
CIELab	67.88, -48.00, 6.62
CIELCh	68, 48.458, 172.149
Yxy	37.8076, 0.2416, 0.3897
Android (android.graphics.Color)	4278238104 (0xFF00BB98)
YUV	127.0970, 12.2772, -111.4641
Hunter-Lab	61.4879, -39.5636, 8.5520

Details

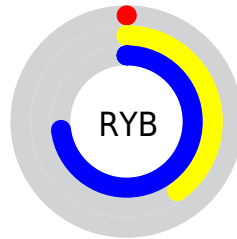
The XYZ color **23.4378, 37.8076, 35.7681** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **20.7982, 10.6872, 2.5587**, and the grayscale version is **20.1928, 21.2444, 23.1351**.

A 20% lighter version of the original color is **48.5283, 71.7543, 69.6848**, and **10.7365, 17.7146, 15.1653** is the 20% darker color. If you saturate the color by 10%, you get **23.4382, 37.8088, 35.7671**, and if you desaturate by 10%, it is **23.9928, 38.0610, 37.3139**.

Distribution



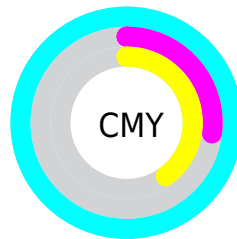
- Red (0%)
- Green (73%)
- Blue (60%)



- Red (0%)
- Yellow (40%)
- Blue (73%)



- Cyan (100%)
- Magenta (0%)
- Yellow (19%)
- Black (27%)





- Cyan (100%)
- Magenta (27%)
- Yellow (40%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 23.4378, 37.8076, 35.7681 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 23.4378, 37.8076, 35.7681 by changing the saturation by 10% instead.


 23.4378, 37.8076,
35.7681


 23.4378, 37.8076,
35.7681


262.4593,
336.7939, 342.9525


 15.0396, 25.8334,
23.9669


 48.5726, 71.8131,
69.8390


 8.9337, 16.6990,
15.0971


 66.0399, 94.6133,
92.9457


 4.7547, 10.0202,
8.7402


 87.2609, 121.7908,
120.6581

 2.1373, 5.4123,
4.4776

 112.6010,
153.7302, 153.3945

 0.7094, 2.4912,
1.8908

 142.4255,
190.8158, 191.5737

 0.0000, 0.8722,
0.4869

 177.0998,

 0.0000, 0.0000,

233.4320, 235.6140

0.0000

216.9893,
281.9633, 285.9341

■ 23.4378, 37.8076,
35.7681

■ 23.4378, 37.8076,
35.7681

■ 23.4382, 37.8088,
35.7671

■ 23.9928, 38.0610,
37.3139

■ 24.8074, 38.4464,
38.9156

■ 25.9752, 39.0128,
40.5787

■ 27.5422, 39.7840,
42.3057

■ 29.5474, 40.7801,
44.0989

■ 32.0250, 42.0187,
45.9602

■ 35.0061, 43.5159,
47.8914

■ 38.5187, 45.2860,
49.8942

■ 42.5890, 47.3426,
51.9701

Harmonies

Analogous

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



25.6908, 37.8076, 20.6371



23.4378, 37.8076, 35.7681



24.1448, 37.8076, 58.8209

Triad

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



23.4378, 37.8076, 35.7681



41.6623, 37.8076, 92.6185



45.5502, 37.8076, 16.3740

Complementary

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



23.4378, 37.8076, 35.7681



20.7982, 10.6872, 2.5587

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.



51.0478, 37.8076, 27.4529



23.4378, 37.8076, 35.7681



48.5940, 37.8076, 72.1364

Square

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



23.4378, 37.8076, 35.7681



33.9971, 37.8076, 97.2712



52.2331, 37.8076, 47.0815



37.9451, 37.8076, 12.2745

Rectangle

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



23.4378, 37.8076, 35.7681



26.2517, 37.8076, 75.6468



52.2331, 37.8076, 47.0815



47.7473, 37.8076, 19.1731

Sweetspot

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



23.4389, 37.8091, 35.7690



62.4059, 77.7893, 85.5954



18.5491, 35.9430, 5.9607



13.2241, 16.8698, 18.5241



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



23.4389, 37.8091, 35.7690



41.8935, 67.6799, 63.6203



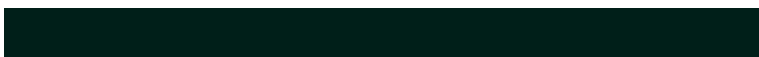
17.0743, 19.7963, 49.9365



9.7299, 10.7781, 11.8271



16.1735, 26.0597, 24.7743



0.6537, 1.0288, 1.0766

Inverse Universe

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



20.7982, 10.6872, 2.5587



37.1842, 19.1137, 4.2473



21.9142, 13.4049, 1.4331



9.6012, 9.5648, 10.2888



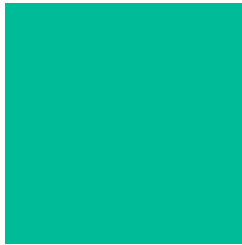
14.3494, 7.3709, 1.8678



0.5845, 0.2977, 0.1911

Previews

White Background



This preview shows how the XYZ color 23.4378, 37.8076, 35.7681 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 23.4378, 37.8076, 35.7681 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 23.4378, 37.8076, 35.7681

Background



This preview shows how black text looks on a background with the XYZ color 23.4378, 37.8076, 35.7681.



This preview shows how white text looks on a background with the XYZ color 23.4378, 37.8076, 35.7681.

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

23.4378, 37.8076, 35.7681

Protanopia

35.2427, 37.3286, 30.1586

Deuteranopia

37.8611, 37.2100, 37.5345



Tritanopia

28.0632, 37.8455, 58.0504

Trichromacy



Original Color

23.4378, 37.8076, 35.7681



Protanomaly

26.2170, 34.8337, 31.7273



Deuteranomaly

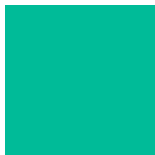
27.3912, 34.4892, 36.6659



Tritanomaly

25.8648, 37.5196, 49.0588

Monochromacy



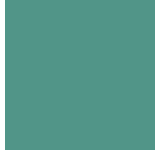
Original Color

23.4378, 37.8076, 35.7681



Achromatopsia

20.1725, 21.2231, 23.1119



Achromatomaly

18.5847, 25.0218, 27.1427

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.4378, 37.8076, 35.7681 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, 187, 152)` looks like.

```
.text, #text, p{  
    color:rgb(0, 187, 152)  
}
```

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, 187, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 187, 152) }
```

Border

The CSS property to change the border of an element to XYZ 23.4378, 37.8076, 35.7681 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, 187, 152) }
```


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

```
.border{ border-color:rgb(0, 187, 152) }
```

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

Here you see how a box with a 4 pixel rgb(0, 187, 152) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 187, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 187, 152);  
box-shadow:4px 4px 4px 4px rgb(0, 187,  
152) }
```

Background

The CSS property to change the background color of an element to XYZ 23.4378, 37.8076, 35.7681 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 187, 152) }
```

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

```
.background{ background-color: rgb(0, 187,  
152) }
```

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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