

Converting Colors

XYZ(10.4562, 27.2547, 45.9234)

Have a look what the booklet for
XYZ(10.4562, 27.2547, 45.9234)
contains.

XYZ(23.1664, 33.7945, 46.3763)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(23.1664, 33.7945,
46.3763)**

Conversions

Conversions Part 1

Format	Color
Hex	00AFB0
RGB	0, 175, 176
RGB Percent	0%, 69%, 69%
CMY	0.9999, 0.3137, 0.3098
CMYK	1.00, 0.01, 0.00, 0.31
HSL	180°, 100%, 35%
HSV	180°, 100%, 69%
XYZ	23.1664, 33.7945, 46.3763
YIQ	122.7890, -104.6210, -36.7890

Conversions

Conversions Part 2

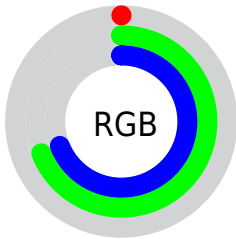
Format	Color
RYB	0, 88, 176
Decimal	44976
CIELab	64.80, -35.94, -11.17
CIELCh	65, 37.640, 197.263
Yxy	33.7945, 0.2242, 0.3270
Android (android.graphics.Color)	4278235056 (0xFF00AFB0)
YUV	122.7890, 26.2330, -107.6860
Hunter-Lab	58.1330, -30.5994, -6.6062

Details

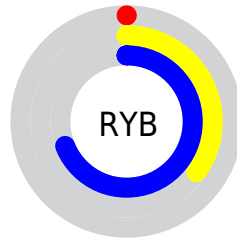
The XYZ color **23.1664, 33.7945, 46.3763** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.9161, 9.2526, 0.8425**, and the grayscale version is **18.7016, 19.6756, 21.4267**.

A 20% lighter version of the original color is **48.1784, 65.5747, 86.4618**, and **10.5976, 15.3743, 21.4778** is the 20% darker color. If you saturate the color by 10%, you get **23.1670, 33.7955, 46.3771**, and if you desaturate by 10%, it is **23.4291, 33.9595, 46.3949**.

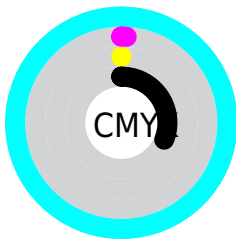
Distribution



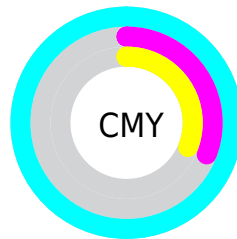
- Red (0%)
- Green (69%)
- Blue (69%)



- Red (0%)
- Yellow (35%)
- Blue (69%)



- Cyan (100%)
- Magenta (1%)
- Yellow (0%)
- Black (31%)



- Cyan (100%)
- Magenta (31%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.1664, 33.7945, 46.3763 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 23.1664, 33.7945, 46.3763 by changing the saturation by 10% instead.

■ 23.1664, 33.7945,
46.3763

■ 23.1664, 33.7945,
46.3763

■ 261.0979,
319.2148, 388.6409

■ 14.8378, 22.7358,
32.1921

■ 48.1311, 65.6140,
86.1221

■ 8.7912, 14.3985,
21.2422

■ 65.4978, 87.1435,
112.5207

■ 4.6613, 8.3984,
13.1082

■ 86.6080, 112.9321,
143.8279

■ 2.0826, 4.3509,
7.3715

■ 111.8270,
143.3641, 180.4622

■ 0.6797, 1.8717,
3.6135

■ 141.5201,
178.8240, 222.8421

■ 0.0000, 0.5313,
1.4158

■ 176.0528,

■ 0.0000, 0.0000,

219.6962, 271.3861

0.1540

215.7902,
266.3650, 326.5129

■ 0.0000, 0.0000,
0.0000

■ 23.1664, 33.7945,
46.3763

■ 23.1664, 33.7945,
46.3763

■ 23.1670, 33.7955,
46.3771

■ 23.4291, 33.9595,
46.3949

■ 23.9069, 34.2348,
46.4229

■ 24.6847, 34.6646,
46.4649

■ 25.8019, 35.2695,
46.5227

■ 27.2918, 36.0665,
46.5980

■ 29.1840, 37.0710,
46.6922

■ 31.5049, 38.2965,
46.8064

■ 34.2788, 39.7555,
46.9418

■ 37.5281, 41.4596,
47.0995

Harmonies

Analogous

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



22.9956, 33.7945, 30.6043



23.1664, 33.7945, 46.3763



25.5587, 33.7945, 63.3382

Triad

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



23.1664, 33.7945, 46.3763



40.3931, 33.7945, 60.9761



34.4720, 33.7945, 14.6976

Complementary

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



23.1664, 33.7945, 46.3763



17.9161, 9.2526, 0.8425

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.



39.7194, 33.7945, 18.9495



23.1664, 33.7945, 46.3763



43.3874, 33.7945, 43.7721

Square

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



23.1664, 33.7945, 46.3763



35.3114, 33.7945, 73.2606



43.1278, 33.7945, 28.6360



29.1281, 33.7945, 15.0307

Rectangle

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



23.1664, 33.7945, 46.3763



28.2612, 33.7945, 71.7295



43.1278, 33.7945, 28.6360



36.3164, 33.7945, 15.5735

Sweetspot

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



23.1674, 33.7958, 46.3771



56.8898, 69.3250, 84.8779



15.5261, 31.0514, 5.1761



11.9369, 14.8170, 18.3752



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



23.1674, 33.7958, 46.3771



42.0106, 61.2806, 84.1095



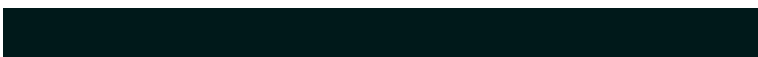
11.3280, 10.1168, 42.4306



8.7385, 9.6231, 10.9032



16.9994, 24.7991, 34.0277



0.5362, 0.7829, 1.0711

Inverse Universe

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



25.6432, 12.3261, 41.5864



46.5039, 22.3528, 75.4061



21.3959, 16.2123, 2.0025



8.8479, 8.6459, 10.6976



18.8152, 9.0436, 30.5163



0.5927, 0.2848, 0.9637

Previews

White Background



This preview shows how the XYZ color 23.1664, 33.7945, 46.3763 looks on a white background.

Color Contrast Check

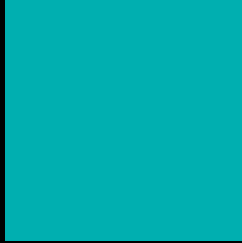
Large Text (above 18pt) WCAG AA × Fail

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 23.1664, 33.7945, 46.3763 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

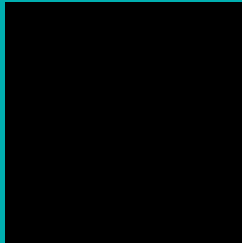
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

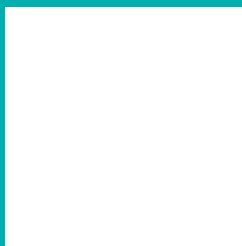
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.1664, 33.7945, 46.3763

Background



This preview shows how black text looks on a background with the XYZ color 23.1664, 33.7945, 46.3763.

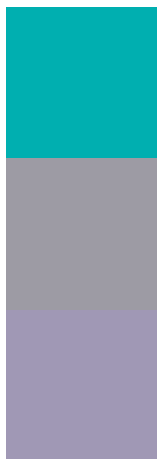


This preview shows how white text looks on a background with the XYZ color 23.1664, 33.7945,

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

23.1664, 33.7945, 46.3763

Protanopia

32.3268, 33.2911, 39.8440

Deuteranopia

34.0659, 33.2663, 48.3416



Tritanopia

24.4783, 33.7663, 52.2411

Trichromacy



Original Color

23.1664, 33.7945, 46.3763

Protanomaly

25.2437, 31.3771, 41.7717

Deuteranomaly

26.1870, 31.2211, 47.2939

Tritanomaly

23.9718, 33.8397, 50.0680

Monochromacy



Original Color

23.1664, 33.7945, 46.3763

Achromatopsia

18.8265, 19.8069, 21.5697

Achromatomaly

17.6974, 22.9187, 29.0822

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.1664, 33.7945, 46.3763 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, 175, 176)` looks like.

```
.text, #text, p{  
    color:rgb(0, 175, 176)  
}
```

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, 175, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 175, 176) }
```

Border

The CSS property to change the border of an element to XYZ 23.1664, 33.7945, 46.3763 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, 175, 176) }
```


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

```
.border{ border-color:rgb(0, 175, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 175, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 175, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 175, 176);  
box-shadow:4px 4px 4px 4px rgb(0, 175,  
176) }
```

Background

The CSS property to change the background color of an element to XYZ 23.1664, 33.7945, 46.3763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 175, 176) }
```

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

```
.background{ background-color: rgb(0, 175,  
176) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor