

Converting Colors

XYZ(23.3423, 32.8333, 47.4516)

Have a look what the booklet for
XYZ(23.3423, 32.8333, 47.4516)
contains.

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Color

**XYZ(23.2260, 32.6635,
47.2000)**

Conversions

Conversions Part 1

Format	Color
Hex	21ABB2
RGB	33, 171, 178
RGB Percent	13%, 67%, 70%
CMY	0.8705, 0.3294, 0.3020
CMYK	0.81, 0.04, 0.00, 0.30
HSL	183°, 69%, 41%
HSV	183°, 81%, 70%
XYZ	23.2260, 32.6635, 47.2000
YIQ	130.5360, -84.4950, -27.0790

Conversions

Conversions Part 2

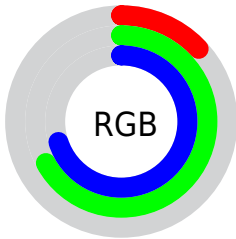
Format	Color
R_{YB}	33, 104, 178
Decimal	2206642
CIE _{Lab}	63.89, -31.75, -13.63
CIE _{LCh}	64, 34.549, 203.231
Yxy	32.6635, 0.2253, 0.3168
Android (android.graphics.Color)	4280396722 (0xFF21ABB2)
YUV	130.5360, 23.3998, -85.5391
Hunter-Lab	57.1520, -27.4754, -8.9593

Details

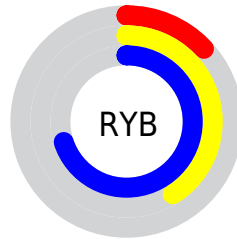
The XYZ color **23.2260, 32.6635, 47.2000** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **19.3943, 11.0934, 2.5589**, and the grayscale version is **21.3509, 22.4628, 24.4620**.

A 20% lighter version of the original color is **48.3838, 64.0045, 87.6459**, and **10.1801, 14.4375, 21.6522** is the 20% darker color. If you saturate the color by 10%, you get **22.6381, 32.1209, 47.1269**, and if you desaturate by 10%, it is **24.1181, 33.3658, 47.2891**.

Distribution



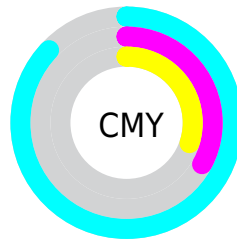
- Red (13%)
- Green (67%)
- Blue (70%)



- Red (13%)
- Yellow (41%)
- Blue (70%)



- Cyan (81%)
- Magenta (4%)
- Yellow (0%)
- Black (30%)



- Cyan (87%)
- Magenta (33%)
- Yellow (30%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2260, 32.6635, 47.2000 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 23.2260, 32.6635, 47.2000 by changing the saturation by 10% instead.

■ 23.2260, 32.6635,
47.2000

■ 23.2260, 32.6635,
47.2000

261.3974,
314.1307, 392.0291

■ 14.8821, 21.8688,
32.8383

■ 48.2281, 63.8498,
87.3652

■ 8.8224, 13.7605,
21.7325

■ 65.6170, 85.0102,
114.0058

■ 4.6817, 7.9543,
13.4640

■ 86.7515, 110.3946,
145.5764

■ 2.0946, 4.0657,
7.6144

■ 111.9972,
140.3874, 182.4956

■ 0.6863, 1.7104,
3.7650

■ 141.7192,
175.3731, 225.1820

■ 0.0000, 0.4304,
1.4973

176.2830,

■ 0.0000, 0.0000,

215.7359, 274.0540

0.2159

216.0540,
261.8603, 329.5302

■ 0.0000, 0.0000,
0.0000

■ 23.2260, 32.6635,
47.2000

■ 23.2260, 32.6635,
47.2000

■ 22.6381, 32.1209,
47.1269

■ 24.1181, 33.3658,
47.2891

■ 22.3001, 31.7427,
47.0717

■ 25.3530, 34.2457,
47.3939

■ 26.9671, 35.3227,
47.5167

■ 28.9909, 36.6124,
47.6590

■ 31.4522, 38.1293,
47.8220

■ 34.3763, 39.8863,
48.0071

■ 37.7863, 41.8955,
48.2151

■ 41.7042, 44.1680,
48.4473

■ 46.1502, 46.7144,
48.7045

Harmonies

Analogous

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



22.6600, 32.6635, 32.5029



23.2260, 32.6635, 47.2000



25.7812, 32.6635, 61.5993

Triad

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



23.2260, 32.6635, 47.2000



39.1490, 32.6635, 54.1105



32.1602, 32.6635, 15.0591

Complementary

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



23.2260, 32.6635, 47.2000



19.3943, 11.0934, 2.5589

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.



36.9820, 32.6635, 18.1458



23.2260, 32.6635, 47.2000



41.2805, 32.6635, 38.8136

Square

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



23.2260, 32.6635, 47.2000



34.8794, 32.6635, 66.2617



40.4488, 32.6635, 26.0188



27.5037, 32.6635, 16.2053

Rectangle

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



23.2260, 32.6635, 47.2000



28.4269, 32.6635, 67.8362



40.4488, 32.6635, 26.0188



33.8206, 32.6635, 15.6020

Sweetspot

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



23.2270, 32.6647, 47.2008



60.6777, 71.3399, 86.9531



16.8956, 32.3037, 7.1655



13.0269, 15.5554, 19.2382



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.



23.2270, 32.6647, 47.2008



40.5064, 57.6103, 85.3662



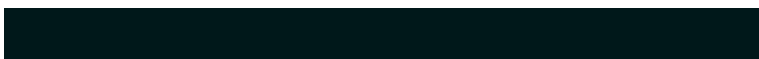
13.2858, 12.7822, 43.8870



8.7068, 9.5598, 10.8927



15.9693, 22.7390, 33.6844



0.5131, 0.7368, 1.0634

Inverse Universe

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



26.2555, 13.4940, 39.7501



46.4062, 22.4893, 70.3525



24.2478, 20.8004, 4.1767



8.8320, 8.6395, 10.6135



18.2952, 8.8357, 27.7784



0.5810, 0.2802, 0.9024

Previews

White Background



This preview shows how the XYZ color 23.2260, 32.6635, 47.2000 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 23.2260, 32.6635, 47.2000 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

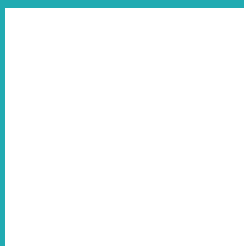
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.2260, 32.6635, 47.2000

Background



This preview shows how black text looks on a background with the XYZ color 23.2260, 32.6635, 47.2000.

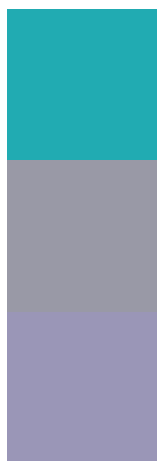


This preview shows how white text looks on a background with the XYZ color 23.2260, 32.6635,

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

23.2260, 32.6635, 47.2000

Protanopia

31.4110, 32.3079, 40.6569

Deuteranopia

32.7800, 32.1016, 49.2683



Tritanopia

23.8632, 32.6415, 50.3901

Trichromacy



Original Color

23.2260, 32.6635, 47.2000

Protanomaly

26.1332, 31.2951, 42.6934

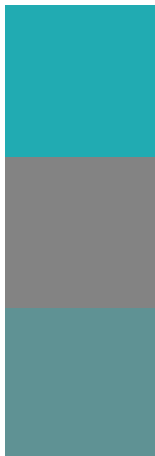
Deuteranomaly

26.9978, 31.1049, 48.2970

Tritanomaly

23.5812, 32.5202, 49.2901

Monochromacy



Original Color

23.2260, 32.6635, 47.2000

Achromatopsia

21.5731, 22.6966, 24.7166

Achromatomaly

20.3435, 25.1288, 31.7951

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.2260, 32.6635, 47.2000 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(33, 171, 178)` looks like.

```
.text, #text, p{  
    color:rgb(33, 171, 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(33, 171, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 171, 178) }
```

Border

The CSS property to change the border of an element to XYZ 23.2260, 32.6635, 47.2000 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(33, 171, 178) }
```


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

```
.border{ border-color:rgb(33, 171, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 171, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 171, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 171, 178);  
box-shadow:4px 4px 4px 4px rgb(33, 171,  
178) }
```

Background

The CSS property to change the background color of an element to XYZ 23.2260, 32.6635, 47.2000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 171, 178) }
```

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

```
.background{ background-color: rgb(33, 171,  
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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