

Converting Colors

XYZ(16.9023, 27.6496, 40.7603)

Have a look what the booklet for
XYZ(16.9023, 27.6496, 40.7603)
contains.

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Color

**XYZ(20.1584, 29.3041,
40.6702)**

Conversions

Conversions Part 1

Format	Color
Hex	00A4A6
RGB	0, 164, 166
RGB Percent	0%, 64%, 65%
CMY	0.9999, 0.3569, 0.3490
CMYK	1.00, 0.01, 0.00, 0.35
HSL	181°, 100%, 33%
HSV	181°, 100%, 65%
XYZ	20.1584, 29.3041, 40.6702
YIQ	115.1920, -98.3860, -34.1460

Conversions

Conversions Part 2

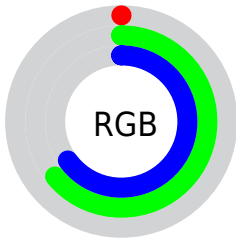
Format	Color
RYB	0, 82, 166
Decimal	42150
CIELab	61.05, -33.93, -11.19
CIELCh	61, 35.728, 198.255
Yxy	29.3041, 0.2237, 0.3251
Android (android.graphics.Color)	4278232230 (0xFF00A4A6)
YUV	115.1920, 25.0483, -101.0234
Hunter-Lab	54.1333, -28.2625, -6.6512

Details

The XYZ color **20.1584, 29.3041, 40.6702** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **15.7483, 8.1512, 0.7442**, and the grayscale version is **16.3047, 17.1538, 18.6805**.

A 20% lighter version of the original color is **43.3637, 58.8398, 77.4783**, and **8.7217, 12.5838, 17.8888** is the 20% darker color. If you saturate the color by 10%, you get **20.1589, 29.3049, 40.6709**, and if you desaturate by 10%, it is **20.4193, 29.4924, 40.6933**.

Distribution



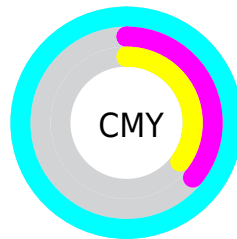
- Red (0%)
- Green (64%)
- Blue (65%)



- Red (0%)
- Yellow (32%)
- Blue (65%)



- Cyan (100%)
- Magenta (1%)
- Yellow (0%)
- Black (35%)





- Cyan (100%)
- Magenta (36%)
- Yellow (35%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.1584, 29.3041, 40.6702 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 20.1584, 29.3041, 40.6702 by changing the saturation by 10% instead.


 20.1584, 29.3041,
40.6702


 20.1584, 29.3041,
40.6702


245.5886,
298.6471, 364.5761


 12.6192, 19.3110,
27.7437


 43.1845, 58.5599,
77.4312


 7.2420, 11.8952,
17.8952


 59.4021, 78.5914,
102.1028


 3.6616, 6.6724,
10.7061


 79.2432, 102.7377,
131.5266

 1.5125, 3.2581,
5.7579

 103.0731,
131.3834, 166.1210

 0.3343, 1.2679,
2.6320

 131.2573,
164.9128, 206.3046

 0.0000, 0.1161,
0.9089

 164.1610,

 0.0000, 0.0000,

203.7103, 252.4959

0.0000

202.1497,
248.1602, 305.1136

■ 20.1584, 29.3041,
40.6702

■ 20.1584, 29.3041,
40.6702

■ 20.1589, 29.3049,
40.6709

■ 20.4193, 29.4924,
40.6933

■ 20.8652, 29.7755,
40.7245

■ 21.5735, 30.1940,
40.7679

■ 22.5783, 30.7654,
40.8253

■ 23.9084, 31.5045,
40.8978

■ 25.5893, 32.4246,
40.9868

■ 27.6438, 33.5374,
41.0933

■ 30.0930, 34.8538,
41.2183

■ 32.9563, 36.3837,
41.3627

Harmonies

Analogous

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



19.9461, 29.3041, 26.9486



20.1584, 29.3041, 40.6702



22.2861, 29.3041, 55.2279

Triad

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



20.1584, 29.3041, 40.6702



35.1124, 29.3041, 52.3006



29.7228, 29.3041, 12.7564

Complementary

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



20.1584, 29.3041, 40.6702



15.7483, 8.1512, 0.7442

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.



34.2767, 29.3041, 16.2955



20.1584, 29.3041, 40.6702



37.6132, 29.3041, 37.4395

Square

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



20.1584, 29.3041, 40.6702



30.7645, 29.3041, 63.1318



37.2912, 29.3041, 24.5030



25.1306, 29.3041, 13.1715

Rectangle

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



20.1584, 29.3041, 40.6702



24.6534, 29.3041, 62.2907



37.2912, 29.3041, 24.5030



31.3174, 29.3041, 13.4709

Sweetspot

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



20.1593, 29.3052, 40.6709



49.9368, 60.7404, 74.5674



13.6370, 27.2731, 4.5463



10.8212, 13.4014, 16.6685



80.6108, 84.8088, 92.3568



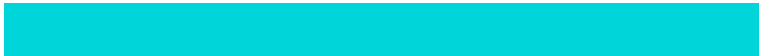
14.7206, 15.4872, 16.8656

Same Dimension

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



20.1593, 29.3052, 40.6709



36.5738, 53.1607, 73.8087



9.9778, 8.9422, 37.2771



7.7397, 8.5163, 9.6542



15.6346, 22.7294, 31.5387



0.3827, 0.5577, 0.7681

Inverse Universe

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



22.4275, 10.7882, 36.0234



40.6965, 19.5756, 65.3455



18.8207, 14.2960, 1.7683



7.8380, 7.6650, 9.4639



17.3922, 8.3656, 27.9407



0.4243, 0.2040, 0.6861

Previews

White Background



This preview shows how the XYZ color 20.1584, 29.3041, 40.6702 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 20.1584, 29.3041, 40.6702 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

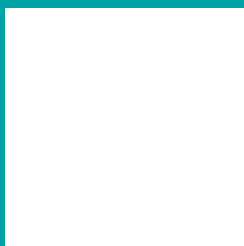
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.1584, 29.3041, 40.6702

Background



This preview shows how black text looks on a background with the XYZ color 20.1584, 29.3041, 40.6702.

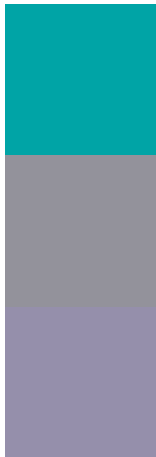


This preview shows how white text looks on a background with the XYZ color 20.1584, 29.3041,

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

20.1584, 29.3041, 40.6702

Protanopia

28.2279, 29.1274, 35.1447

Deuteranopia

29.5676, 28.9748, 42.5624



Tritanopia

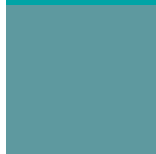
21.2357, 29.2221, 45.5955

Trichromacy



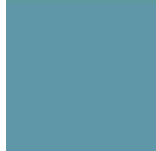
Original Color

20.1584, 29.3041, 40.6702



Protanomaly

22.2653, 27.6654, 36.9673



Deuteranomaly

22.9474, 27.4307, 41.6213



Tritanomaly

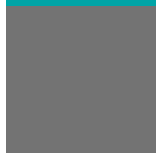
20.7930, 29.3015, 43.5896

Monochromacy



Original Color

20.1584, 29.3041, 40.6702



Achromatopsia

16.2955, 17.1441, 18.6699



Achromatomaly

15.4383, 19.9128, 25.5841

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.1584, 29.3041, 40.6702 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, 164, 166)` looks like.

```
.text, #text, p{  
    color:rgb(0, 164, 166)  
}
```

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, 164, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 164, 166) }
```

Border

The CSS property to change the border of an element to XYZ 20.1584, 29.3041, 40.6702 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, 164, 166) }
```


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

```
.border{ border-color:rgb(0, 164, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 164, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 164, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 164, 166);  
box-shadow:4px 4px 4px 4px rgb(0, 164,  
166) }
```

Background

The CSS property to change the background color of an element to XYZ 20.1584, 29.3041, 40.6702 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 164, 166) }
```

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

```
.background{ background-color: rgb(0, 164,  
166) }
```

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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