

Converting Colors

XYZ(15.7085, 20.0637, 40.2372)

Have a look what the booklet for
XYZ(15.7085, 20.0637, 40.2372)
contains.

XYZ(15.7319, 20.1551, 40.1070)	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(15.7319, 20.1551,
40.1070)**

Conversions

Conversions Part 1

Format	Color
Hex	0087A8
RGB	0, 135, 168
RGB Percent	0%, 53%, 66%
CMY	0.9999, 0.4706, 0.3412
CMYK	1.00, 0.20, 0.00, 0.34
HSL	192°, 100%, 33%
HSV	192°, 100%, 66%
XYZ	15.7319, 20.1551, 40.1070
YIQ	98.3970, -91.0530, -18.3570

Conversions

Conversions Part 2

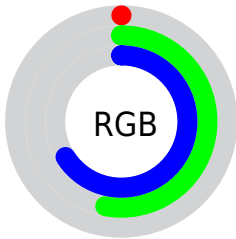
Format	Color
RYB	0, 75, 168
Decimal	34728
CIELab	52.01, -18.63, -26.10
CIELCh	52, 32.071, 234.487
Yxy	20.1551, 0.2070, 0.2652
Android (android.graphics.Color)	4278224808 (0xFF0087A8)
YUV	98.3970, 34.3143, -86.2942
Hunter-Lab	44.8944, -16.0153, -21.5414

Details

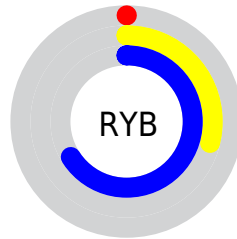
The XYZ color **15.7319, 20.1551, 40.1070** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **16.6936, 9.4146, 0.9383**, and the grayscale version is **11.6444, 12.2509, 13.3412**.

A 20% lighter version of the original color is **35.6169, 43.5183, 76.3347**, and **6.4009, 7.7580, 17.6831** is the 20% darker color. If you saturate the color by 10%, you get **15.7312, 20.1537, 40.1072**, and if you desaturate by 10%, it is **16.4281, 21.2086, 40.2741**.

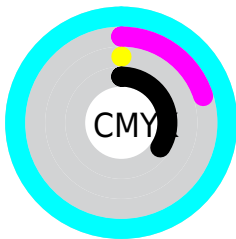
Distribution



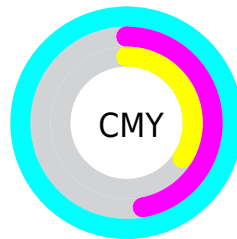
- Red (0%)
- Green (53%)
- Blue (66%)



- Red (0%)
- Yellow (29%)
- Blue (66%)



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)
- Black (34%)



- Cyan (100%)
- Magenta (47%)
- Yellow (34%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 15.7319, 20.1551, 40.1070 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 15.7319, 20.1551, 40.1070 by changing the saturation by 10% instead.

■ 15.7319, 20.1551,
40.1070

■ 15.7319, 20.1551,
40.1070

■ 221.0561,
252.7535, 362.1398

■ 9.4243, 12.5078,
27.3076

■ 35.6934, 43.6771,
76.5653

■ 5.0783, 7.0905,
17.5699

■ 50.0779, 60.3206,
101.0612

■ 2.3285, 3.5188,
10.4754

■ 67.8855, 80.7316,
130.2931

■ 0.8092, 1.4082,
5.6056

■ 89.4814, 105.2945,
164.6794

■ 0.0000, 0.2228,
2.5419

■ 115.2311,
134.3938, 204.6386

■ 0.0000, 0.0000,
0.8622

■ 145.4999,

■ 0.0000, 0.0000,

168.4138, 250.5895

0.0000

180.6531,
207.7389, 302.9503

■ 15.7319, 20.1551,
40.1070

■ 15.7319, 20.1551,
40.1070

■ 15.7312, 20.1537,
40.1072

■ 16.4281, 21.2086,
40.2741

■ 17.3297, 22.3891,
40.4544

■ 18.5155, 23.7377,
40.6522

■ 20.0207, 25.2726,
40.8691

■ 21.8752, 27.0096,
41.1067

■ 24.1052, 28.9622,
41.3660

■ 26.7345, 31.1430,
41.6484

■ 29.7849, 33.5633,
41.9548

■ 33.2764, 36.2336,
42.2862

Harmonies

Analogous

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



13.9859, 20.1551, 30.2868



15.7319, 20.1551, 40.1070



18.5592, 20.1551, 45.1899

Triad

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



15.7319, 20.1551, 40.1070



26.1211, 20.1551, 23.7211



16.6672, 20.1551, 9.2993

Complementary

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



15.7319, 20.1551, 40.1070



16.6936, 9.4146, 0.9383

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.



19.7672, 20.1551, 8.4592



15.7319, 20.1551, 40.1070



25.4670, 20.1551, 15.2963

Square

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



15.7319, 20.1551, 40.1070



24.7437, 20.1551, 34.1544



23.0459, 20.1551, 10.3097



14.4814, 20.1551, 13.0598

Rectangle

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



15.7319, 20.1551, 40.1070



20.7731, 20.1551, 44.4026



23.0459, 20.1551, 10.3097



17.6266, 20.1551, 8.7210

Sweetspot

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



15.7326, 20.1558, 40.1075



48.2207, 56.2756, 75.5459



14.2483, 28.1038, 5.9581



10.0750, 11.9089, 16.4198



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.



15.7326, 20.1558, 40.1075



28.3934, 36.2656, 72.7286



8.3517, 5.3940, 37.6472



7.6205, 8.2779, 9.6145



11.9156, 15.2913, 30.2990



0.3210, 0.4342, 0.7475

Inverse Universe

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



20.5223, 10.0750, 23.7853



37.1616, 18.2498, 42.7502



22.2581, 20.5435, 2.7931



7.7778, 7.6410, 9.1470



15.5150, 7.6147, 18.0555



0.3932, 0.1915, 0.5220

Previews

White Background



This preview shows how the XYZ color 15.7319, 20.1551, 40.1070 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 15.7319, 20.1551, 40.1070 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

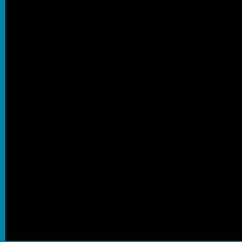
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 15.7319, 20.1551, 40.1070

Background



This preview shows how black text looks on a background with the XYZ color 15.7319, 20.1551, 40.1070.

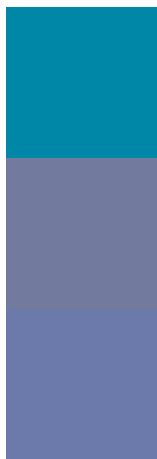


This preview shows how white text looks on a background with the XYZ color 15.7319, 20.1551,

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

15.7319, 20.1551, 40.1070

Protanopia

20.0705, 19.9651, 35.1436

Deuteranopia

20.4946, 20.0475, 41.3174



Tritanopia

14.2910, 20.0294, 31.1298

Trichromacy



Original Color

15.7319, 20.1551, 40.1070

Protanomaly

16.8586, 19.2038, 37.0006

Deuteranomaly

17.2993, 19.3462, 40.8526

Tritanomaly

14.7206, 19.9749, 34.0900

Monochromacy



Original Color

15.7319, 20.1551, 40.1070

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.2462, 13.8231, 20.8143

CSS Examples

Text

The CSS property to change the color of the text to XYZ 15.7319, 20.1551, 40.1070 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, 135, 168)` looks like.

```
.text, #text, p{  
    color:rgb(0, 135, 168)  
}
```

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, 135, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 135, 168) }
```

Border

The CSS property to change the border of an element to XYZ 15.7319, 20.1551, 40.1070 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, 135, 168) }
```


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

```
.border{ border-color:rgb(0, 135, 168) }
```

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

Here you see how a box with a 4 pixel rgb(0, 135, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 135, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 135, 168);  
box-shadow:4px 4px 4px 4px rgb(0, 135,  
168) }
```

Background

The CSS property to change the background color of an element to XYZ 15.7319, 20.1551, 40.1070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 135, 168) }
```

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

```
.background{ background-color: rgb(0, 135,  
168) }
```

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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