

Converting Colors

XYZ(4.0221, 3.0777, 19.0180)

Have a look what the booklet for
XYZ(4.0221, 3.0777, 19.0180)
contains.

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Color

**XYZ(4.5135, 3.3068,
19.1393)**

Conversions

Conversions Part 1	
Format	Color
Hex	002D7B
RGB	0, 45, 123
RGB Percent	0%, 18%, 48%
CMY	1.0000, 0.8235, 0.5176
CMYK	1.00, 0.63, 0.00, 0.52
HSL	218°, 100%, 24%
HSV	218°, 100%, 48%
XYZ	4.5135, 3.3068, 19.1393
YIQ	40.4370, -51.8580, 14.7180

Conversions

Conversions Part 2

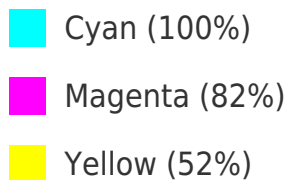
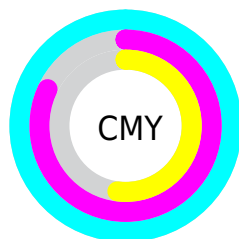
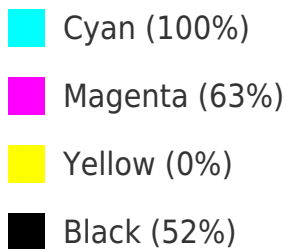
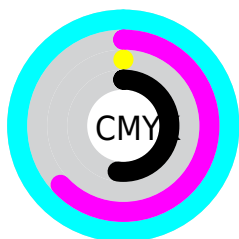
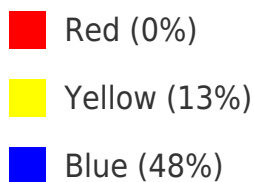
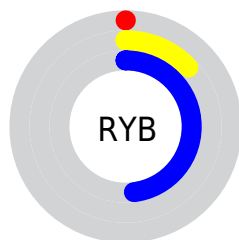
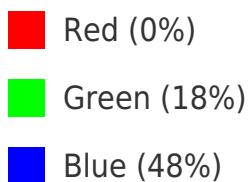
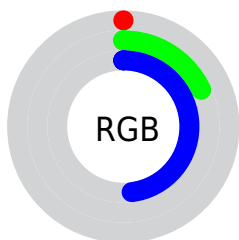
Format	Color
RYB	0, 33, 123
Decimal	11643
CIELab	21.23, 20.58, -47.84
CIELCh	21, 52.077, 293.272
Yxy	3.3068, 0.1674, 0.1227
Android (android.graphics.Color)	4278201723 (0xFF002D7B)
YUV	40.4370, 40.7036, -35.4632
Hunter-Lab	18.1846, 12.4814, -49.6735

Details

The XYZ color **4.5135, 3.3068, 19.1393** is a dark color, and the websafe version is hex **003399**. A complement of this color would be **10.8939, 9.6617, 1.2911**, and the grayscale version is **2.0243, 2.1298, 2.3193**.

A 20% lighter version of the original color is **14.4731, 11.9834, 42.6245**, and **1.2026, 0.4810, 6.3328** is the 20% darker color. If you saturate the color by 10%, you get **4.5132, 3.3062, 19.1393**, and if you desaturate by 10%, it is **4.9952, 4.0385, 19.2552**.


Distribution




Brightness & Saturation Gradients


These gradients show how the XYZ color 4.5135, 3.3068, 19.1393 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 4.5135, 3.3068, 19.1393 by changing the saturation by 10% instead.


 4.5135, 3.3068,
19.1393


 4.5135, 3.3068,
19.1393


140.0716,
131.9546, 259.6650


 1.9965, 1.2939,
11.5931


 14.5170, 12.0106,
42.8092


 0.6320, 0.1365,
6.3481


 22.7342, 19.4703,
59.7700


 0.0000, 0.0000,
2.9857

 33.5822, 29.5144,
80.7061

 0.0000, 0.0000,
1.0873


 47.4264, 42.5273,
106.0360


 0.0000, 0.0000,
0.0000


 64.6320, 58.8933,
136.1784


 85.5646, 78.9970,


171.5516


 110.5893,
103.2226, 212.5743


 4.5135, 3.3068,
19.1393

 4.5135, 3.3068,
19.1393


 4.5132, 3.3062,
19.1393

 4.9952, 4.0385,
19.2552

 5.6141, 4.9269,
19.3941

 6.4265, 6.0048,
19.5593

 7.4505, 7.2852,
19.7525

 8.7020, 8.7798,
19.9750

■ 10.1951, 10.4990,
20.2282

■ 11.9427, 12.4527,
20.5132

■ 13.9570, 14.6501,
20.8311

■ 16.2491, 17.0998,
21.1832

Harmonies

Analogous

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



2.7980, 3.3068, 21.1966



4.5135, 3.3068, 19.1393



6.2884, 3.3068, 11.7940

Triad

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



4.5135, 3.3068, 19.1393



5.3508, 3.3068, 0.0000



0.9784, 3.3068, 2.6685

Complementary

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



4.5135, 3.3068, 19.1393



10.8939, 9.6617, 1.2911

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.



1.2732, 3.3068, 0.3821



4.5135, 3.3068, 19.1393



3.5153, 3.3068, 0.0000

Square

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



4.5135, 3.3068, 19.1393



6.8748, 3.3068, 1.1295



2.0825, 3.3068, 0.0000



1.0869, 3.3068, 8.2909

Rectangle

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



4.5135, 3.3068, 19.1393



7.0781, 3.3068, 6.7574



2.0825, 3.3068, 0.0000



1.0291, 3.3068, 1.6215

Sweetspot

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



4.5137, 3.3069, 19.1394



21.1361, 22.0231, 36.6935



8.4549, 14.7148, 9.5845



4.7113, 4.8908, 8.5988



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



4.5137, 3.3069, 19.1394



7.9540, 5.6645, 34.2307



3.7961, 1.5442, 18.8370



3.9066, 4.1114, 5.0309



4.6640, 3.4104, 19.7977



21.4989, 14.7705, 94.1877

Inverse Universe

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



8.6422, 4.4007, 2.8765



15.4108, 7.8541, 4.8093



13.0987, 17.2672, 2.6429



4.0533, 4.0370, 4.4783



8.9375, 4.5511, 2.9617



42.2548, 21.5583, 12.1378

Previews

White Background



This preview shows how the XYZ color 4.5135, 3.3068, 19.1393 looks on a white 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

Black Background



This preview shows how the XYZ color 4.5135, 3.3068, 19.1393 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

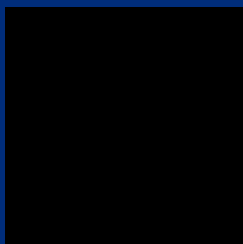
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 4.5135, 3.3068, 19.1393

Background



This preview shows how black text looks on a background with the XYZ color 4.5135, 3.3068, 19.1393.



This preview shows how white text looks on a background with the XYZ color 4.5135, 3.3068,

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

4.5135, 3.3068, 19.1393

Protanopia

3.7421, 3.3218, 14.0796

Deuteranopia

3.1186, 3.2844, 10.1424



Tritanopia

2.3554, 3.3630, 4.9399

Trichromacy



Original Color
4.5135, 3.3068, 19.1393

Protanomaly
3.9816, 3.2838, 15.7532

Deuteranomaly
3.5389, 3.2405, 13.0093

Tritanomaly
2.8733, 3.1863, 8.8511

Monochromacy



Original Color
4.5135, 3.3068, 19.1393

Achromatopsia
2.0169, 2.1219, 2.3108

Achromatomaly
2.3344, 2.3048, 6.1162

CSS Examples

Text

The CSS property to change the color of the text to XYZ 4.5135, 3.3068, 19.1393 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, 45, 123)` looks like.

```
.text, #text, p{  
    color:rgb(0, 45, 123)  
}
```

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, 45, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 45, 123) }
```

Border

The CSS property to change the border of an element to XYZ 4.5135, 3.3068, 19.1393 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, 45, 123) }
```


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

```
.border{ border-color:rgb(0, 45, 123) }
```

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

Here you see how a box with a 4 pixel rgb(0, 45, 123) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 45, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 45, 123);  
box-shadow:4px 4px 4px 4px rgb(0, 45, 123)  
}
```

Background

The CSS property to change the background color of an element to XYZ 4.5135, 3.3068, 19.1393 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 45, 123) }
```

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

```
.background{ background-color: rgb(0, 45,  
123) }
```

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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