

# Converting Colors

XYZ(19.0437, 10.5040, 91.3841)

Have a look what the booklet for  
XYZ(19.0437, 10.5040, 91.3841)  
contains.

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# Color

**XYZ(19.0328, 10.4571,  
91.4578)**

# Conversions

Conversions Part 1	
Format	Color
Hex	003FFA
RGB	0, 63, 250
RGB Percent	0%, 25%, 98%
CMY	0.9997, 0.7530, 0.0196
CMYK	1.00, 0.75, 0.00, 0.02
HSL	225°, 100%, 49%
HSV	225°, 100%, 98%
XYZ	19.0328, 10.4571, 91.4578
YIQ	65.4810, -97.5750, 44.8010

# Conversions

## Conversions Part 2

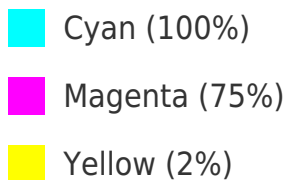
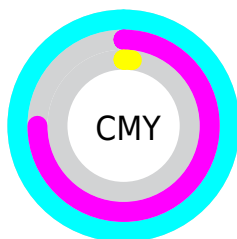
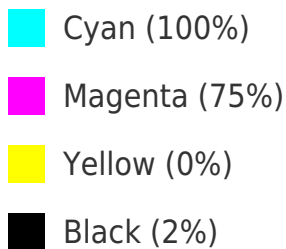
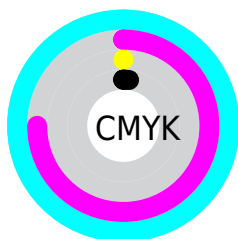
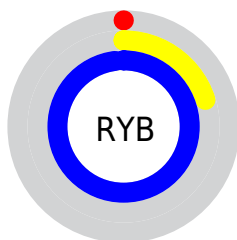
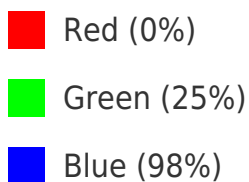
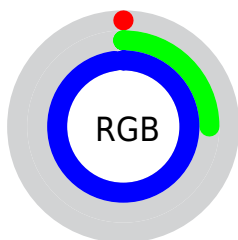
Format	Color
<a href="#">RYB</a>	<a href="#">0, 50, 250</a>
Decimal	<a href="#">16378</a>
CIELab	<a href="#">38.65, 56.96, -94.48</a>
CIELCh	<a href="#">39, 110.321, 301.084</a>
Yxy	<a href="#">10.4571, 0.1574, 0.0865</a>
Android (android.graphics.Color)	<a href="#">4278206458</a> (0xFF003FFA)
YUV	<a href="#">65.4810, 90.9679, -57.4268</a>
Hunter-Lab	<a href="#">32.3374, 48.4690, -145.0497</a>

# Details

The XYZ color **19.0328, 10.4571, 91.4578** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark saturated blue. A complement of this color would be **57.2114, 55.8972, 7.7759**, and the grayscale version is **4.9771, 5.2363, 5.7023**.

A 20% lighter version of the original color is **31.0466, 22.5213, 97.3185**, and **9.7307, 4.2384, 50.1744** is the 20% darker color. If you saturate the color by 10%, you get **19.0297, 10.4508, 91.4571**, and if you desaturate by 10%, it is **20.6529, 13.0995, 91.8828**.

# Distribution





# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.0328, 10.4571, 91.4578 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 19.0328, 10.4571, 91.4578 by changing the saturation by 10% instead.





 19.0328, 10.4571,  
91.4578


 19.0328, 10.4571,  
91.4578


239.5644,  
193.9041, 553.4537


 11.7981, 5.7031,  
68.6099


 41.3060, 26.6518,  
151.3149


 6.6776, 2.6654,  
49.9243


 57.0752, 38.8612,  
189.1611

 3.3058, 0.9596,  
34.9825


 76.4199, 54.3246,  
232.8438

 1.3175, 0.0000,  
23.3659

 99.7056, 73.4263,  
282.7815

 0.1962, 0.0000,  
14.6561

 127.2975, 96.5507,  
339.3928

 0.0000, 0.0000,  
8.4345

 159.5610,

 0.0000, 0.0000,

124.0822, 403.0963

4.2824

196.8616,  
156.4052, 474.3104

■ 0.0000, 0.0000,  
1.7815

■ 0.0000, 0.0000,  
0.4157

■ 19.0328, 10.4571,  
91.4578

■ 19.0328, 10.4571,  
91.4578

■ 19.0297, 10.4508,  
91.4571

■ 20.6529, 13.0995,  
91.8828

■ 23.1707, 16.7748,  
92.4595

■ 26.7730, 21.6216,  
93.2052

■ 31.5815, 27.7407,  
94.1329

■ 37.7001, 35.2211,  
95.2542

■ 45.2213, 44.1430,  
96.5799

■ 54.2285, 54.5799,  
98.1197

■ 64.7985, 66.6003,  
99.8828

■ 77.0028, 80.2684,  
101.8778

# Harmonies

## Analogous

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



10.2058, 10.4571, 116.4445



19.0328, 10.4571, 91.4578



27.8583, 10.4571, 43.7366

# Triad

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



19.0328, 10.4571, 91.4578



18.3357, 10.4571, 0.0000



1.4945, 10.4571, 12.1597

# Complementary

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



19.0328, 10.4571, 91.4578



57.2114, 55.8972, 7.7759

# 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.



2.0419, 10.4571, 0.9296



19.0328, 10.4571, 91.4578



9.6772, 10.4571, 0.0000

# Square

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



19.0328, 10.4571, 91.4578



27.3363, 10.4571, 0.6768



4.3322, 10.4571, 0.0000



2.1353, 10.4571, 47.0313



# Rectangle

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



19.0328, 10.4571, 91.4578



31.1021, 10.4571, 18.7768



4.3322, 10.4571, 0.0000



1.5420, 10.4571, 6.2445

# Sweetspot

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



19.0336, 10.4572, 91.4582



56.6644, 57.0229, 102.6277



42.7707, 71.8056, 56.5982



11.2365, 11.1775, 21.8152



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



19.0336, 10.4572, 91.4582



19.8948, 10.9095, 95.6649



19.0238, 7.8149, 90.9487



16.6381, 17.3530, 21.8578



10.1897, 5.7351, 48.5435



1.0244, 0.6924, 4.5228



# Inverse Universe

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



40.3224, 20.6845, 6.5693



42.1711, 21.6325, 6.8334



55.8444, 79.5369, 12.4109



17.4239, 17.2969, 18.8218



21.4353, 10.9899, 3.7349



2.0260, 1.0341, 0.5602



# Previews

## White Background



This preview shows how the XYZ color 19.0328, 10.4571, 91.4578 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

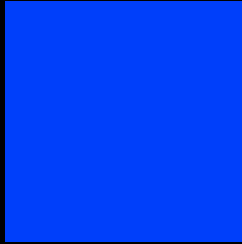
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 19.0328, 10.4571, 91.4578 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

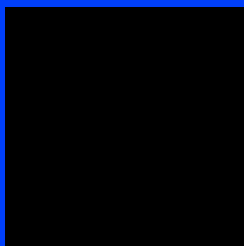
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 19.0328, 10.4571, 91.4578**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.0328, 10.4571, 91.4578.



This preview shows how white text looks on a background with the XYZ color 19.0328, 10.4571,



# 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

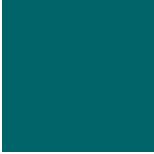
19.0328, 10.4571, 91.4578

### Protanopia

11.9554, 10.2353, 46.1452

### Deuteranopia



9.9151, 10.2290, 32.9043



## Tritanopia

7.1070, 10.1343, 14.9461

# Trichromacy

	<b>Original Color</b> 19.0328, 10.4571, 91.4578
	<b>Protanomaly</b> 13.9869, 9.9538, 60.2156
	<b>Deuteranomaly</b> 12.3116, 9.7523, 49.9487
	<b>Tritanomaly</b> 9.5798, 9.2850, 33.6350

# Monochromacy

	<b>Original Color</b> 19.0328, 10.4571, 91.4578
	<b>Achromatopsia</b> 5.1784, 5.4480, 5.9329
	<b>Achromatomaly</b> 7.0788, 5.9663, 22.9688

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.0328, 10.4571, 91.4578 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, 63, 250)` looks like.

```
.text, #text, p{  
    color:rgb(0, 63, 250)  
}
```

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, 63, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 63, 250) }
```

## Border

The CSS property to change the border of an element to XYZ 19.0328, 10.4571, 91.4578 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, 63, 250) }
```



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

```
.border{ border-color:rgb(0, 63, 250) }
```

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

Here you see how a box with a 4 pixel rgb(0, 63, 250) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 63, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 63, 250);  
box-shadow:4px 4px 4px 4px rgb(0, 63, 250)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 19.0328, 10.4571, 91.4578 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 63, 250) }
```

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

```
.background{ background-color: rgb(0, 63,  
250) }
```

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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