

# Converting Colors

XYZ(19.8049, 8.1718, 93.0033)

Have a look what the booklet for  
XYZ(19.8049, 8.1718, 93.0033)  
contains.

<b>XYZ(19.7507, 8.1521, 92.6280)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(19.7507, 8.1521,  
92.6280)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4100FC
RGB	65, 0, 252
RGB Percent	25%, 0%, 99%
CMY	0.7450, 1.0000, 0.0118
CMYK	0.74, 1.00, 0.00, 0.01
HSL	255°, 100%, 49%
HSV	255°, 100%, 99%
XYZ	19.7507, 8.1521, 92.6280
YIQ	48.1630, -42.1520, 92.1520

# Conversions

## Conversions Part 2

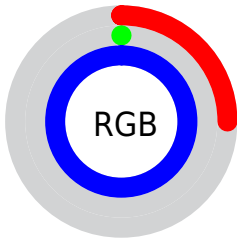
<b>Format</b>	<b>Color</b>
<b>RYB</b>	65, 0, 252
Decimal	4260092
CIELab	34.30, 79.35, -102.79
CIElCh	34, 129.854, 307.669
Yxy	8.1521, 0.1639, 0.0676
Android (android.graphics.Color)	4282450172 (0xFF4100FC)
YUV	48.1630, 100.4916, 14.7660
Hunter-Lab	28.5519, 73.5112, -172.3623

# Details

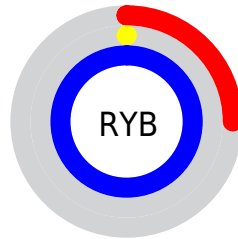
The XYZ color **19.7507, 8.1521, 92.6280** is a dark color, and the websafe version is hex **3300FF**. The color can be described as dark saturated blue. A complement of this color would be **55.3006, 80.1841, 12.5624**, and the grayscale version is **2.7258, 2.8678, 3.1230**.

A 20% lighter version of the original color is **31.8265, 17.9572, 96.3964**, and **9.6256, 3.8503, 50.6879** is the 20% darker color. If you saturate the color by 10%, you get **19.7517, 8.1526, 92.6284**, and if you desaturate by 10%, it is **21.5532, 9.6037, 92.8135**.

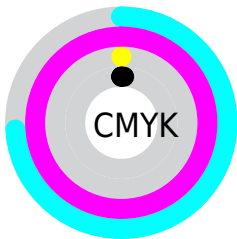
# Distribution



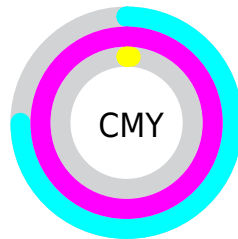
- Red (25%)
- Green (0%)
- Blue (99%)



- Red (25%)
- Yellow (0%)
- Blue (99%)



- Cyan (74%)
- Magenta (100%)
- Yellow (0%)
- Black (1%)



- Cyan (75%)
- Magenta (100%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.7507, 8.1521, 92.6280 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 19.7507, 8.1521, 92.6280 by changing the saturation by 10% instead.



■ 19.7507, 8.1521,  
92.6280

■ 19.7507, 8.1521,  
92.6280

243.4217,  
176.9202, 557.3322

■ 12.3212, 4.1924,  
69.5764

■ 42.5060, 22.2561,  
152.9507

■ 7.0366, 1.7818,  
50.7066

■ 58.5624, 33.1692,  
191.0589

■ 3.5315, 0.4758,  
35.6001

■ 78.2252, 47.1689,  
235.0231

■ 1.4407, 0.0000,  
23.8382

■ 101.8596, 64.6396,  
285.2618

■ 0.2849, 0.0000,  
15.0026

■ 129.8312, 85.9657,  
342.1935

■ 0.0000, 0.0000,  
8.6745


■ 162.5051,


■ 0.0000, 0.0000,


111.5315, 406.2368

4.4356


 200.2468,  
141.7216, 477.8102


 0.0000, 0.0000,  
1.8672


 0.0000, 0.0000,  
0.4718


 19.7507, 8.1521,  
92.6280


 19.7507, 8.1521,  
92.6280

 19.7517, 8.1526,  
92.6284

 21.5532, 9.6037,  
92.8135

 24.2548, 12.1928,  
93.1709

 28.0283, 16.2152,  
93.7484

 32.9881, 21.8558,  
94.5757

■ 39.2322, 29.2707,  
95.6778

■ 46.8480, 38.5974,  
97.0767

■ 55.9148, 49.9592,  
98.7918

■ 66.5056, 63.4691,  
100.8413

■ 78.6882, 79.2318,  
103.2417

# Harmonies

## Analogous

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



9.7588, 8.1521, 136.0455



19.7507, 8.1521, 92.6280



29.0799, 8.1521, 34.2807

# Triad

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



19.7507, 8.1521, 92.6280



14.3335, 8.1521, 0.0000



0.4673, 8.1521, 15.3317

# Complementary

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



19.7507, 8.1521, 92.6280



55.3006, 80.1841, 12.5624

# 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.



0.6767, 8.1521, 0.6848



19.7507, 8.1521, 92.6280



6.0349, 8.1521, 0.0000

# Square

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



19.7507, 8.1521, 92.6280



24.8196, 8.1521, 0.0000



1.9744, 8.1521, 0.0000



1.1269, 8.1521, 62.3413



# Rectangle

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



19.7507, 8.1521, 92.6280



31.6457, 8.1521, 10.5987



1.9744, 8.1521, 0.0000



0.4416, 8.1521, 7.3514

# Sweetspot

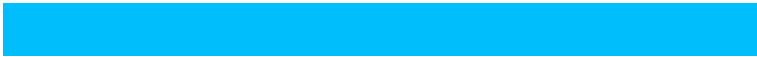
The Sweet Spot groups the original color and five complimentary colors.



19.7517, 8.1526, 92.6284



57.4212, 51.2981, 101.4828



35.7684, 43.4236, 98.5922



11.4097, 9.8701, 21.5537



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.



19.7517, 8.1526, 92.6284



20.2825, 8.3709, 95.1545



38.5571, 17.8472, 93.5085



16.7028, 16.8594, 21.7592



10.4042, 4.3062, 48.2564



1.0578, 0.4474, 4.4738



# Inverse Universe

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



49.1132, 24.2828, 49.1043



50.4483, 24.9433, 50.4203



36.8604, 70.6778, 11.6994



17.7906, 17.4436, 20.7529



25.6468, 12.6744, 25.9120

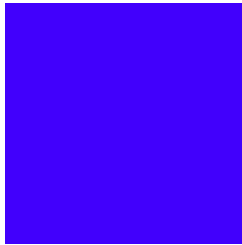


2.4184, 1.1911, 2.6267



# Previews

## White Background



This preview shows how the XYZ color 19.7507, 8.1521, 92.6280 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

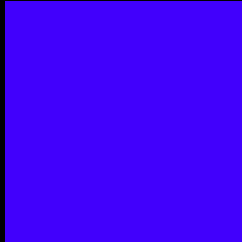
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 19.7507, 8.1521, 92.6280 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 19.7507, 8.1521, 92.6280**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.7507, 8.1521, 92.6280.



This preview shows how white text looks on a background with the XYZ color 19.7507, 8.1521,



# 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

19.7507, 8.1521, 92.6280

### Protanopia

9.5875, 8.3086, 36.6957

### Deuteranopia

7.9039, 8.2341, 25.9837



## Tritanopia

5.7217, 8.1386, 12.0958

# Trichromacy



## Original Color

19.7507, 8.1521, 92.6280

## Protanomaly

11.5953, 6.5066, 53.4681

## Deuteranomaly

9.9903, 6.0766, 44.3624

## Tritanomaly

7.5073, 5.3874, 30.3500

# Monochromacy



## Original Color

19.7507, 8.1521, 92.6280

## Achromatopsia

2.8094, 2.9557, 3.2187

## Achromatomaly

5.5242, 3.1694, 18.7330

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.7507, 8.1521, 92.6280 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(65, 0, 252)` looks like.

```
.text, #text, p{  
    color:rgb(65, 0, 252)  
}
```

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(65, 0, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 0, 252) }
```

## Border

The CSS property to change the border of an element to XYZ 19.7507, 8.1521, 92.6280 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(65, 0, 252) }
```



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

```
.border{ border-color:rgb(65, 0, 252) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 0, 252)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 0, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 0, 252);  
box-shadow:4px 4px 4px 4px rgb(65, 0, 252)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 19.7507, 8.1521, 92.6280 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 0, 252) }
```

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

```
.background{ background-color: rgb(65, 0,  
252) }
```

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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