

# Converting Colors

XYZ(51.6524, 46.1190,  
100.7873)

Have a look what the booklet for  
XYZ(51.6524, 46.1190, 100.7873)  
contains.

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# Color

**XYZ(51.6690, 46.1696,  
100.7961)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B5ABFF
RGB	181, 171, 255
RGB Percent	71%, 67%, 100%
CMY	0.2902, 0.3294, 0.0000
CMYK	0.29, 0.33, 0.00, 0.00
HSL	247°, 100%, 84%
HSV	247°, 33%, 100%
XYZ	51.6690, 46.1696, 100.7961
YIQ	183.5660, -21.0040, 28.2440

# Conversions

## Conversions Part 2

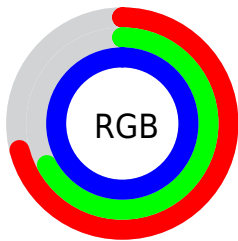
Format	Color
<a href="#">RYB</a>	<a href="#">181, 171, 255</a>
Decimal	<a href="#">11906047</a>
CIELab	<a href="#">73.66, 21.62, -40.34</a>
CIElCh	<a href="#">74, 45.772, 298.191</a>
Yxy	<a href="#">46.1696, 0.2601, 0.2324</a>
Android (android.graphics.Color)	<a href="#">4290096127</a> ( <a href="#">0xFFB5ABFF</a> )
YUV	<a href="#">183.5660, 35.2170, -2.2504</a>
Hunter-Lab	<a href="#">67.9482, 16.8251, -40.3885</a>

# Details

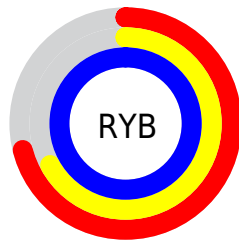
The XYZ color **51.6690, 46.1696, 100.7961** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **80.7672, 93.8729, 52.3922**, and the grayscale version is **45.1426, 47.4935, 51.7204**.

A 20% lighter version of the original color is **80.5063, 79.7899, 105.7656**, and **25.3941, 21.7065, 56.2774** is the 20% darker color. If you saturate the color by 10%, you get **42.4594, 34.9490, 99.1157**, and if you desaturate by 10%, it is **62.6599, 59.6897, 102.8265**.

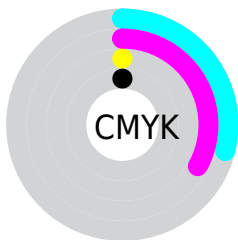
# Distribution



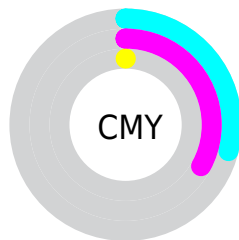
- Red (71%)
- Green (67%)
- Blue (100%)



- Red (71%)
- Yellow (67%)
- Blue (100%)



- Cyan (29%)
- Magenta (33%)
- Yellow (0%)
- Black (0%)



- Cyan (29%)
- Magenta (33%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.6690, 46.1696, 100.7961 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 51.6690, 46.1696, 100.7961 by changing the saturation by 10% instead.



■ 51.6690, 46.1696,  
100.7961

■ 51.6690, 46.1696,  
100.7961

383.5024,  
371.4901, 584.0105

■ 36.9645, 32.3797,  
76.3450

■ 91.8200, 84.4728,  
164.3122

■ 25.3536, 21.6517,  
56.2071

117.9973,  
109.7548, 204.2142

■ 16.4708, 13.6012,  
39.9639

148.7295,  
139.6363, 250.1036

■ 9.9509, 7.8438,  
27.1968

184.3820,  
174.5017, 302.3990

■ 5.4284, 3.9952,  
17.4873

225.3202,  
214.7354, 361.5188

■ 2.5381, 1.6709,  
10.4169

271.9094,

■ 0.9145, 0.4047,

260.7218, 427.8817

5.5671

324.5150,  
312.8452, 501.9060

■ 0.0000, 0.0000,  
2.5192

■ 0.0000, 0.0000,  
0.8503

■ 51.6690, 46.1696,  
100.7961

■ 51.6690, 46.1696,  
100.7961

■ 42.4594, 34.9490,  
99.1157

■ 62.6599, 59.6897,  
102.8265

■ 34.9325, 25.8943,  
97.7647

■ 75.5149, 75.6222,  
105.2242

■ 28.9866, 18.8666,  
96.7216

■ 90.3169, 94.0788,  
108.0066

■ 24.5072, 13.7083,  
95.9620

95.0500, 100.0000,  
108.9000

■ 21.3641, 10.2382,  
95.4579

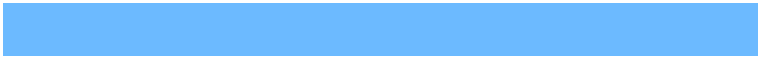
■ 19.4030, 8.2387,  
95.1753

■ 18.5959, 7.5014,  
95.0755

# Harmonies

## Analogous

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



43.3925, 46.1696, 109.4188



51.6690, 46.1696, 100.7961



58.5124, 46.1696, 77.6737

# Triad

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



51.6690, 46.1696, 100.7961



52.6254, 46.1696, 21.0695



30.0699, 46.1696, 48.8744

# Complementary

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



51.6690, 46.1696, 100.7961



80.7672, 93.8729, 52.3922

# 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.



31.9208, 46.1696, 30.2154



51.6690, 46.1696, 100.7961



44.3768, 46.1696, 17.5431

# Square

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



51.6690, 46.1696, 100.7961



59.1106, 46.1696, 31.9878



36.9210, 46.1696, 20.2899



31.5244, 46.1696, 74.4561



# Rectangle

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



51.6690, 46.1696, 100.7961



60.9836, 46.1696, 59.9747



36.9210, 46.1696, 20.2899



30.3211, 46.1696, 41.6746

# Sweetspot

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



51.6705, 46.1713, 100.7964



79.6608, 80.7813, 106.0015



67.5584, 81.3045, 106.7404



16.6219, 16.7568, 22.6083



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.



51.6705, 46.1713, 100.7964



44.9881, 38.0172, 99.5747



62.9838, 52.0036, 101.3258



17.2038, 17.4813, 22.7174



9.7796, 3.9520, 49.6820



1.0133, 0.4163, 4.8402



# Inverse Universe

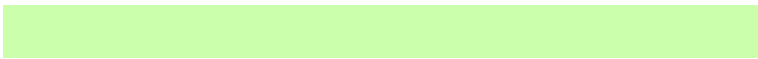
The Inverse Universe completely reimagines the original color for something new.



72.2850, 56.9797, 93.5745



68.7872, 50.5049, 90.8035



67.7947, 87.1853, 51.7851



18.6941, 18.2609, 22.2720



28.6616, 13.9539, 38.4640

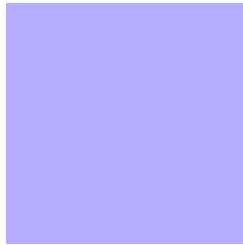


2.8159, 1.3687, 3.8778



# Previews

## White Background



This preview shows how the XYZ color 51.6690, 46.1696, 100.7961 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

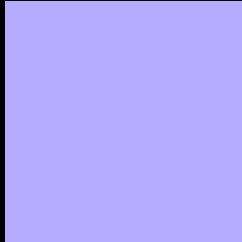
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.6690, 46.1696, 100.7961 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

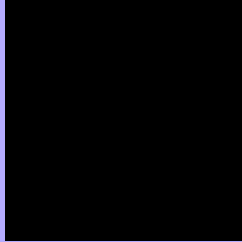
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 51.6690, 46.1696, 100.7961

## Background



This preview shows how black text looks on a background with the XYZ color 51.6690, 46.1696, 100.7961.



This preview shows how white text looks on a background with the XYZ color 51.6690, 46.1696,



# 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

51.6690, 46.1696, 100.7961

### Protanopia

47.8750, 46.2289, 101.0075

### Deuteranopia

47.5600, 46.4000, 99.3779



## Tritanopia

43.3737, 46.3332, 59.4805

# Trichromacy



## Original Color

51.6690, 46.1696, 100.7961

## Protanomaly

49.1059, 45.9869, 100.8959

## Deuteranomaly

48.9318, 46.2058, 100.1056

## Tritanomaly

46.0086, 46.1864, 72.8196

# Monochromacy



## Original Color

51.6690, 46.1696, 100.7961

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

47.2814, 46.9606, 67.5451

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.6690, 46.1696, 100.7961 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(181, 171, 255)` looks like.

```
.text, #text, p{  
    color:rgb(181, 171, 255)  
}
```

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(181, 171, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 171, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 51.6690, 46.1696, 100.7961 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(181, 171, 255) }
```



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

```
.border{ border-color:rgb(181, 171, 255) }
```

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

Here you see how a box with a 4 pixel rgb(181, 171, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 171, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 171, 255);  
box-shadow:4px 4px 4px 4px rgb(181, 171,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.6690, 46.1696, 100.7961 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 171, 255) }
```

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

```
.background{ background-color: rgb(181,  
171, 255) }
```

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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