

# Converting Colors

XYZ(30.9361, 18.6925, 61.1754)

Have a look what the booklet for  
XYZ(30.9361, 18.6925, 61.1754)  
contains.

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# Color

**XYZ(31.0001, 18.7244,  
61.0118)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AC4ECF
RGB	172, 78, 207
RGB Percent	67%, 31%, 81%
CMY	0.3255, 0.6941, 0.1882
CMYK	0.17, 0.62, 0.00, 0.19
HSL	284°, 57%, 56%
HSV	284°, 62%, 81%
XYZ	31.0001, 18.7244, 61.0118
YIQ	120.8120, 14.6150, 60.0470

# Conversions

## Conversions Part 2

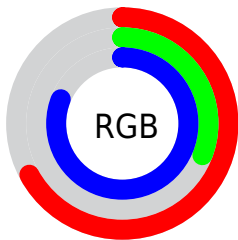
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	172, 78, 207
Decimal	11292367
CIE <sub>Lab</sub>	50.36, 58.13, -50.47
CIE <sub>LCh</sub>	50, 76.977, 319.035
Y <sub>xy</sub>	18.7244, 0.2799, 0.1691
Android (android.graphics.Color)	4289482447 (0xFFAC4ECF)
YUV	120.8120, 42.4907, 44.8919
Hunter-Lab	43.2717, 52.1530, -53.3069

# Details

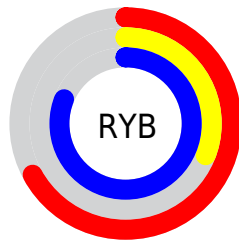
The XYZ color **31.0001, 18.7244, 61.0118** is a dark color, and the websafe version is hex **9933CC**. The color can be described as middle muted purple. A complement of this color would be **30.4985, 48.6869, 14.9984**, and the grayscale version is **17.9782, 18.9144, 20.5978**.

A 20% lighter version of the original color is **58.9344, 40.5455, 99.3276**, and **13.0704, 6.3809, 30.2485** is the 20% darker color. If you saturate the color by 10%, you get **28.5476, 15.6101, 60.5403**, and if you desaturate by 10%, it is **33.9689, 22.7925, 61.6409**.

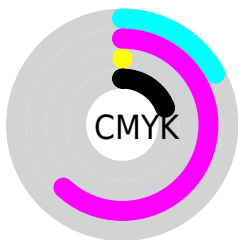
# Distribution



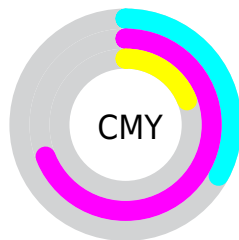
- Red (67%)
- Green (31%)
- Blue (81%)



- Red (67%)
- Yellow (31%)
- Blue (81%)



- Cyan (17%)
- Magenta (62%)
- Yellow (0%)
- Black (19%)



- Cyan (33%)
- Magenta (69%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.0001, 18.7244, 61.0118 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 31.0001, 18.7244, 61.0118 by changing the saturation by 10% instead.




 31.0001, 18.7244,  
61.0118


 31.0001, 18.7244,  
61.0118

298.3657,  
244.9230, 446.2250


 20.7508, 11.4713,  
43.8041


 60.6161, 41.2679,  
107.8537


 13.0534, 6.3848,  
30.1804


 80.7134, 57.3271,  
138.3250


 7.5425, 3.0804,  
19.7224


 104.8241, 77.0904,  
174.0545

 3.8530, 1.1739,  
12.0113

 133.3135,  
100.9422, 215.4609

 1.6193, 0.0402,  
6.6288

 166.5471,  
129.2670, 262.9625

 0.4049, 0.0000,  
3.1561

204.8900,

 0.0000, 0.0000,

162.4492, 316.9781

1.1749

248.7078,  
200.8731, 377.9261

■ 0.0000, 0.0000,  
0.0000

■ 31.0001, 18.7244,  
61.0118

■ 31.0001, 18.7244,  
61.0118

■ 28.5476, 15.6101,  
60.5403

■ 33.9689, 22.7925,  
61.6409

■ 26.5634, 13.3567,  
60.2099

■ 37.4917, 27.8910,  
62.4393

■ 24.9934, 11.8565,  
60.0031

■ 41.6050, 34.0912,  
63.4193

■ 23.9951, 11.0689,  
59.9037

■ 46.3413, 41.4574,  
64.5915

■ 51.7306, 50.0488,  
65.9657

■ 57.8011, 59.9206,  
67.5512

■ 64.5789, 71.1245,  
69.3566

■ 72.0891, 83.7095,  
71.3899

■ 77.3148, 91.6412,  
72.6454

# Harmonies

## Analogous

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



22.9063, 18.7244, 89.2681



31.0001, 18.7244, 61.0118



35.9571, 18.7244, 29.2587

# Triad

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



31.0001, 18.7244, 61.0118



20.6721, 18.7244, 0.7873



7.3771, 18.7244, 36.9680

# Complementary

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



31.0001, 18.7244, 61.0118



30.4985, 48.6869, 14.9984

# 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.



7.0899, 18.7244, 13.5198



31.0001, 18.7244, 61.0118



13.5103, 18.7244, 0.9835

# Square

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



31.0001, 18.7244, 61.0118



28.9760, 18.7244, 2.4280



9.0030, 18.7244, 3.5601



9.9416, 18.7244, 69.9163



# Rectangle

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



31.0001, 18.7244, 61.0118



36.0915, 18.7244, 14.5845



9.0030, 18.7244, 3.5601



7.0445, 18.7244, 27.5562

# Sweetspot

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



31.0009, 18.7252, 61.0122



76.8221, 70.4795, 104.1627



20.4846, 18.2845, 61.4814



15.9301, 14.2741, 22.1655



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.



31.0009, 18.7252, 61.0122



44.5283, 23.5708, 96.8105



36.5988, 21.9715, 44.9869



11.9849, 11.8411, 14.8975



15.2126, 7.0227, 37.7462



0.9243, 0.4307, 2.1140



# Inverse Universe

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



31.4377, 19.9070, 17.8089



46.1907, 26.1512, 19.0262



28.0542, 47.2854, 21.2712



11.9386, 11.8602, 12.9526



16.6989, 8.5524, 3.3206

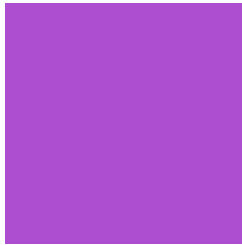


0.9673, 0.4916, 0.3626



# Previews

## White Background



This preview shows how the XYZ color 31.0001, 18.7244, 61.0118 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

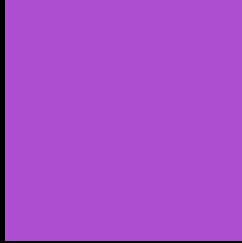
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.0001, 18.7244, 61.0118 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

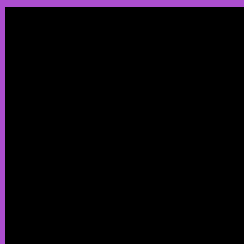
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 31.0001, 18.7244, 61.0118**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.0001, 18.7244, 61.0118.



This preview shows how white text looks on a background with the XYZ color 31.0001, 18.7244,



# 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

31.0001, 18.7244, 61.0118

### Protanopia

22.9763, 19.2120, 88.8835

### Deuteranopia

19.6004, 19.0635, 56.6794



## Tritanopia

22.1328, 18.5645, 18.0396

# Trichromacy



## Original Color

31.0001, 18.7244, 61.0118



## Protanomaly

21.9992, 16.7281, 77.6707



## Deuteranomaly

21.6561, 17.4316, 58.1003



## Tritanomaly

24.4629, 18.0775, 29.8037

# Monochromacy



## Original Color

31.0001, 18.7244, 61.0118



## Achromatopsia

18.1737, 19.1202, 20.8219



## Achromatomaly

21.5343, 17.9456, 32.0346

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.0001, 18.7244, 61.0118 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(172, 78, 207)` looks like.

```
.text, #text, p{  
    color:rgb(172, 78, 207)  
}
```

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(172, 78, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 78, 207) }
```

## Border

The CSS property to change the border of an element to XYZ 31.0001, 18.7244, 61.0118 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(172, 78, 207) }
```



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

```
.border{ border-color:rgb(172, 78, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 78, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 78, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 78, 207);  
box-shadow:4px 4px 4px 4px rgb(172, 78,  
207) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.0001, 18.7244, 61.0118 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 78, 207) }
```

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

```
.background{ background-color: rgb(172, 78,  
207) }
```

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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