

Converting Colors

XYZ(31.6236, 14.5770, 79.4415)

Have a look what the booklet for
XYZ(31.6236, 14.5770, 79.4415)
contains.

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Color

**XYZ(31.7900, 14.6561,
79.7507)**

Conversions

Conversions Part 1

Format	Color
Hex	AB00EB
RGB	171, 0, 235
RGB Percent	67%, 0%, 92%
CMY	0.3294, 1.0000, 0.0784
CMYK	0.27, 1.00, 0.00, 0.08
HSL	284°, 100%, 46%
HSV	284°, 100%, 92%
XYZ	31.7900, 14.6561, 79.7507
YIQ	77.9190, 26.4810, 109.3370

Conversions

Conversions Part 2

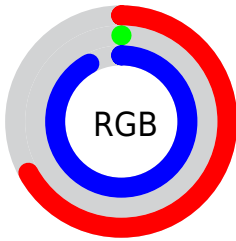
Format	Color
R_{YB}	171, 0, 235
Decimal	11206891
CIE _{Lab}	45.16, 83.45, -74.84
CIE _{LCh}	45, 112.094, 318.117
Yxy	14.6561, 0.2519, 0.1161
Android (android.graphics.Color)	4289396971 (0xFFAB00EB)
YUV	77.9190, 77.4409, 81.6320
Hunter-Lab	38.2833, 81.2286, -96.7130

Details

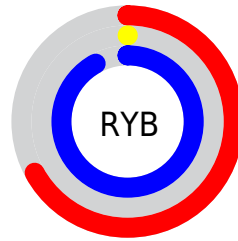
The XYZ color **31.7900, 14.6561, 79.7507** is a dark color, and the websafe version is hex **CC00FF**. The color can be described as middle washed purple. A complement of this color would be **31.8232, 60.5071, 10.0020**, and the grayscale version is **7.0830, 7.4518, 8.1150**.

A 20% lighter version of the original color is **54.9011, 31.5206, 97.7982**, and **14.5914, 6.5939, 42.6232** is the 20% darker color. If you saturate the color by 10%, you get **31.7902, 14.6562, 79.7510**, and if you desaturate by 10%, it is **33.5354, 16.0258, 79.9234**.

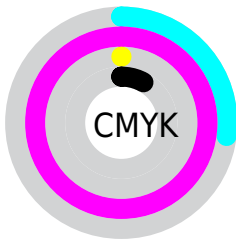
Distribution



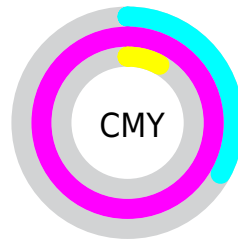
- Red (67%)
- Green (0%)
- Blue (92%)



- Red (67%)
- Yellow (0%)
- Blue (92%)



- Cyan (27%)
- Magenta (100%)
- Yellow (0%)
- Black (8%)




- Cyan (33%)
- Magenta (100%)
- Yellow (8%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.7900, 14.6561, 79.7507 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 31.7900, 14.6561, 79.7507 by changing the saturation by 10% instead.

 31.7900, 14.6561,
79.7507


 31.7900, 14.6561,
79.7507


301.9238,
221.2751, 513.7769

 21.3559, 8.5784,
58.9883


 61.8491, 34.2487,
134.8234

 13.4984, 4.4672,
42.1837


 82.2049, 48.5325,
169.9708


 7.8520, 1.9382,
28.9185


 106.5986, 66.3203,
210.7502

 4.0514, 0.5712,
18.7742

 135.3957, 87.9966,
257.5802

 1.7312, 0.0000,
11.3320

 168.9613,
113.9459, 310.8793

 0.4757, 0.0000,
6.1737

 207.6610,

 0.0000, 0.0000,

144.5525, 371.0661

2.8805

251.8601,
180.2008, 438.5591

■ 0.0000, 0.0000,
1.0339

■ 0.0000, 0.0000,
0.0000

■ 31.7900, 14.6561,
79.7507

■ 31.7900, 14.6561,
79.7507

■ 31.7902, 14.6562,
79.7510

■ 33.5354, 16.0258,
79.9234

■ 35.7323, 18.1979,
80.2268

■ 38.5034, 21.4156,
80.7019

■ 41.9210, 25.8218,
81.3722

■ 46.0455, 31.5364,
82.2579

■ 50.9301, 38.6644,
83.3763

■ 56.6227, 47.3002,
84.7431

■ 63.1667, 57.5297,
86.3727

■ 70.6026, 69.4323,
88.2782

Harmonies

Analogous

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



20.2185, 14.6561, 129.6522



31.7900, 14.6561, 79.7507



39.5582, 14.6561, 28.8989

Triad

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



31.7900, 14.6561, 79.7507



17.9191, 14.6561, 0.0000



2.9472, 14.6561, 37.5900

Complementary

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



31.7900, 14.6561, 79.7507



31.8232, 60.5071, 10.0020

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.



2.7732, 14.6561, 7.6050



31.7900, 14.6561, 79.7507



9.1030, 14.6561, 0.0000

Square

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



31.7900, 14.6561, 79.7507



29.4800, 14.6561, 0.0000



4.4467, 14.6561, 0.2115



5.1159, 14.6561, 91.7440

Rectangle

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



31.7900, 14.6561, 79.7507



39.9664, 14.6561, 9.7972



4.4467, 14.6561, 0.2115



2.7046, 14.6561, 24.2756

Sweetspot

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



31.7908, 14.6566, 79.7511



68.0563, 56.7807, 101.9806



16.9784, 9.9638, 79.6260



13.9208, 11.1646, 21.6712



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.



31.7908, 14.6566, 79.7511



38.1915, 17.6033, 95.9926



42.9219, 21.1267, 47.2100



15.2915, 15.0956, 19.0300



17.8212, 8.2231, 44.3909



1.4908, 0.6928, 3.4900

Inverse Universe

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



35.1867, 18.0326, 6.4774



42.3281, 21.6952, 7.6598



30.3044, 59.6553, 13.0405



15.2340, 15.1214, 16.5174



19.6287, 10.0542, 3.8459



1.5806, 0.8052, 0.5086

Previews

White Background



This preview shows how the XYZ color 31.7900, 14.6561, 79.7507 looks on a white background.

Color Contrast Check

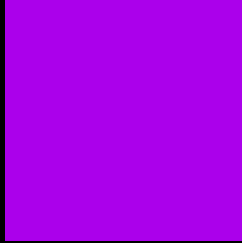
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.7900, 14.6561, 79.7507 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

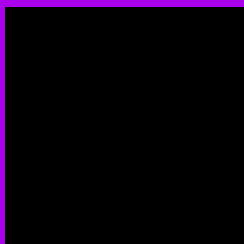
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 31.7900, 14.6561, 79.7507

Background



This preview shows how black text looks on a background with the XYZ color 31.7900, 14.6561, 79.7507.



This preview shows how white text looks on a background with the XYZ color 31.7900, 14.6561,

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

31.7900, 14.6561, 79.7507

Protanopia

18.1027, 15.3236, 70.4102

Deuteranopia

15.1989, 15.1747, 51.9971



Tritanopia

18.4737, 14.9447, 13.7153

Trichromacy



Original Color

31.7900, 14.6561, 79.7507



Protanomaly

17.7212, 10.5294, 73.0499



Deuteranomaly

15.6250, 10.0847, 60.7975



Tritanomaly

20.8139, 12.4341, 29.3200

Monochromacy



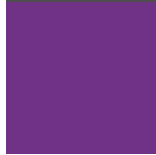
Original Color

31.7900, 14.6561, 79.7507



Achromatopsia

7.2414, 7.6185, 8.2966



Achromatomaly

12.1959, 7.4752, 23.7217

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.7900, 14.6561, 79.7507 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(171, 0, 235)` looks like.

```
.text, #text, p{  
    color:rgb(171, 0, 235)  
}
```

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(171, 0, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 0, 235) }
```

Border

The CSS property to change the border of an element to XYZ 31.7900, 14.6561, 79.7507 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(171, 0, 235) }
```


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

```
.border{ border-color:rgb(171, 0, 235) }
```

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

Here you see how a box with a 4 pixel rgb(171, 0, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 0, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 0, 235);  
box-shadow:4px 4px 4px 4px rgb(171, 0,  
235) }
```

Background

The CSS property to change the background color of an element to XYZ 31.7900, 14.6561, 79.7507 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 0, 235) }
```

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

```
.background{ background-color: rgb(171, 0,  
235) }
```

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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