

Converting Colors

XYZ(31.4721, 14.7137, 85.5089)

Have a look what the booklet for
XYZ(31.4721, 14.7137, 85.5089)
contains.

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Color

**XYZ(31.3641, 14.6631,
85.1816)**

Conversions

Conversions Part 1

Format	Color
Hex	A313F2
RGB	163, 19, 242
RGB Percent	64%, 7%, 95%
CMY	0.3608, 0.9255, 0.0510
CMYK	0.33, 0.92, 0.00, 0.05
HSL	279°, 90%, 51%
HSV	279°, 92%, 95%
XYZ	31.3641, 14.6631, 85.1816
YIQ	87.4780, 14.2410, 99.8810

Conversions

Conversions Part 2

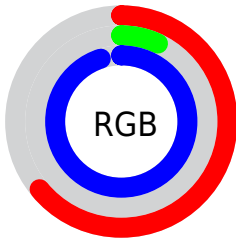
Format	Color
R_{YB}	163, 19, 242
Decimal	10687474
CIE _{Lab}	45.17, 81.86, -78.82
CIE _{LCh}	45, 113.636, 316.082
Yxy	14.6631, 0.2390, 0.1118
Android (android.graphics.Color)	4288877554 (0xFFA313F2)
YUV	87.4780, 76.1793, 66.2328
Hunter-Lab	38.2924, 79.1919, -105.0861

Details

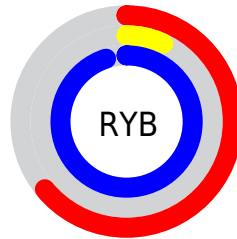
The XYZ color **31.3641, 14.6631, 85.1816** is a dark color, and the websafe version is hex **9933FF**. The color can be described as middle washed purple. A complement of this color would be **36.9070, 66.1483, 11.4390**, and the grayscale version is **9.0017, 9.4705, 10.3134**.

A 20% lighter version of the original color is **52.7048, 30.8960, 97.7934**, and **14.1312, 6.2855, 45.8158** is the 20% darker color. If you saturate the color by 10%, you get **29.7899, 13.5058, 85.0415**, and if you desaturate by 10%, it is **33.8188, 16.8762, 85.4797**.

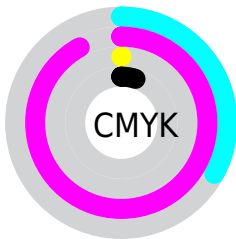
Distribution



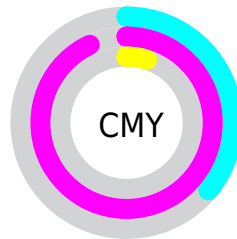
- Red (64%)
- Green (7%)
- Blue (95%)



- Red (64%)
- Yellow (7%)
- Blue (95%)



- Cyan (33%)
- Magenta (92%)
- Yellow (0%)
- Black (5%)





- Cyan (36%)
- Magenta (93%)
- Yellow (5%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3641, 14.6631, 85.1816 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 31.3641, 14.6631, 85.1816 by changing the saturation by 10% instead.


 31.3641, 14.6631,
85.1816


 31.3641, 14.6631,
85.1816

300.0092,
221.3179, 532.3890

 21.0294, 8.5833,
63.4404


 61.1848, 34.2611,
142.5033


 13.2581, 4.4704,
45.7543


 81.4016, 48.5480,
178.9209


 7.6847, 1.9400,
31.7047

 105.6431, 66.3394,
221.0677

 3.9440, 0.5723,
20.8731

 134.2747, 88.0198,
269.3623

 1.6705, 0.0000,
12.8409

 167.6618,
113.9734, 324.2232

 0.4377, 0.0000,
7.1897

 206.1696,

 0.0000, 0.0000,

144.5847, 386.0689

3.5008

250.1637,
180.2381, 455.3180

■ 0.0000, 0.0000,
1.3557

■ 0.0000, 0.0000,
0.1068

■ 31.3641, 14.6631,
85.1816

■ 31.3641, 14.6631,
85.1816

■ 29.7899, 13.5058,
85.0415

■ 33.8188, 16.8762,
85.4797

■ 36.9155, 20.1946,
85.9570

■ 40.7374, 24.7800,
86.6407

■ 45.3532, 30.7667,
87.5529

■ 50.8227, 38.2712,
88.7132

■ 57.1996, 47.3975,
90.1386

■ 64.5325, 58.2405,
91.8450

■ 72.8667, 70.8873,
93.8469

■ 82.2441, 85.4193,
96.1576

Harmonies

Analogous

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



19.5482, 14.6631, 134.6119



31.3641, 14.6631, 85.1816



39.7653, 14.6631, 31.8746

Triad

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



31.3641, 14.6631, 85.1816



18.7362, 14.6631, 0.0000



2.8027, 14.6631, 34.9529

Complementary

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



31.3641, 14.6631, 85.1816



36.9070, 66.1483, 11.4390

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.



2.7427, 14.6631, 6.4913



31.3641, 14.6631, 85.1816



9.5174, 14.6631, 0.0000

Square

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



31.3641, 14.6631, 85.1816



30.5452, 14.6631, 0.0000



4.5693, 14.6631, 0.0000



4.8019, 14.6631, 89.4581

Rectangle

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



31.3641, 14.6631, 85.1816



40.6319, 14.6631, 11.0983



4.5693, 14.6631, 0.0000



2.6005, 14.6631, 22.0812

Sweetspot

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



31.3649, 14.6636, 85.1820



67.6465, 58.1095, 102.2586



20.9270, 15.8120, 85.9538



13.7457, 11.3635, 21.7188



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.



31.3649, 14.6636, 85.1820



33.4975, 15.1835, 95.7729



48.7685, 24.1102, 64.5478



15.8794, 15.7350, 19.9218



16.1572, 7.3347, 45.6920



1.4517, 0.6657, 3.8062

Inverse Universe

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



39.0557, 20.2251, 13.4010



43.0997, 22.0039, 11.7233



32.5697, 63.8625, 13.4868



16.0041, 15.8513, 17.5777



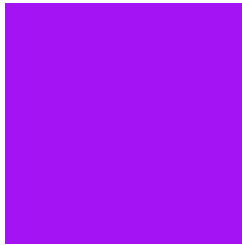
20.6268, 10.5231, 5.9513



1.7616, 0.8937, 0.7356

Previews

White Background



This preview shows how the XYZ color 31.3641, 14.6631, 85.1816 looks on a white background.

Color Contrast Check

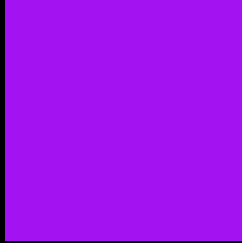
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.3641, 14.6631, 85.1816 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

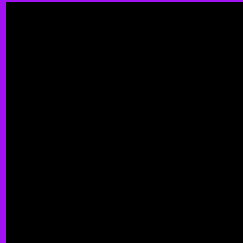
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 31.3641, 14.6631, 85.1816

Background



This preview shows how black text looks on a background with the XYZ color 31.3641, 14.6631, 85.1816.



This preview shows how white text looks on a background with the XYZ color 31.3641, 14.6631,

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

31.3641, 14.6631, 85.1816

Protanopia

17.7365, 15.0151, 68.9812

Deuteranopia

14.7612, 14.8260, 50.2278



Tritanopia

17.1123, 14.7483, 14.7768

Trichromacy



Original Color

31.3641, 14.6631, 85.1816



Protanomaly

18.0513, 11.2409, 73.8914



Deuteranomaly

15.8427, 10.7916, 60.9225



Tritanomaly

19.9325, 12.6704, 31.9669

Monochromacy



Original Color

31.3641, 14.6631, 85.1816



Achromatopsia

9.0590, 9.5307, 10.3790



Achromatomaly

13.7508, 9.0733, 27.0132

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.3641, 14.6631, 85.1816 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(163, 19, 242)` looks like.

```
.text, #text, p{  
    color:rgb(163, 19, 242)  
}
```

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(163, 19, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 19, 242) }
```

Border

The CSS property to change the border of an element to XYZ 31.3641, 14.6631, 85.1816 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(163, 19, 242) }
```


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

```
.border{ border-color:rgb(163, 19, 242) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 19, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 19, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 19, 242);  
box-shadow:4px 4px 4px 4px rgb(163, 19,  
242) }
```

Background

The CSS property to change the background color of an element to XYZ 31.3641, 14.6631, 85.1816 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 19, 242) }
```

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

```
.background{ background-color: rgb(163, 19,  
242) }
```

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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