

Converting Colors

XYZ(16.0028, 7.7298, 24.2401)

Have a look what the booklet for
XYZ(16.0028, 7.7298, 24.2401)
contains.

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Color

**XYZ(16.0170, 7.7354,
24.3158)**

Conversions

Conversions Part 1

Format	Color
Hex	900089
RGB	144, 0, 137
RGB Percent	56%, 0%, 54%
CMY	0.4353, 1.0000, 0.4627
CMYK	0.00, 1.00, 0.05, 0.44
HSL	303°, 100%, 28%
HSV	303°, 100%, 56%
XYZ	16.0170, 7.7354, 24.3158
YIQ	58.6740, 41.8470, 73.1350

Conversions

Conversions Part 2

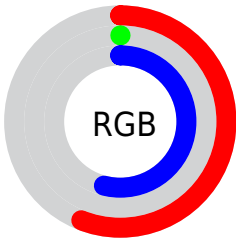
Format	Color
RYB	144, 0, 137
Decimal	9437321
CIELab	33.43, 63.13, -36.12
CIElCh	33, 72.738, 330.222
Yxy	7.7354, 0.3332, 0.1609
Android (android.graphics.Color)	4287627401 (0xFF900089)
YUV	58.6740, 38.6147, 74.8309
Hunter-Lab	27.8126, 54.1244, -32.3668

Details

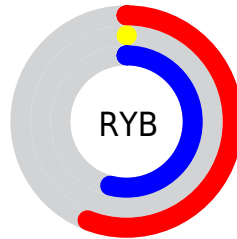
The XYZ color **16.0170, 7.7354, 24.3158** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **10.0120, 19.9623, 3.5268**, and the grayscale version is **4.0588, 4.2702, 4.6502**.

A 20% lighter version of the original color is **36.0758, 21.3480, 51.5094**, and **5.7995, 2.7957, 9.0381** is the 20% darker color. If you saturate the color by 10%, you get **16.0172, 7.7355, 24.3157**, and if you desaturate by 10%, it is **16.2302, 8.0809, 24.6355**.

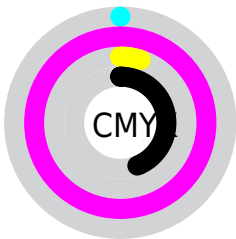
Distribution



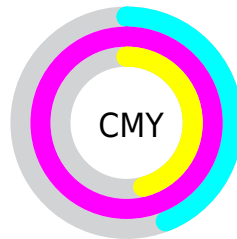
- Red (56%)
- Green (0%)
- Blue (54%)



- Red (56%)
- Yellow (0%)
- Blue (54%)



- Cyan (0%)
- Magenta (100%)
- Yellow (5%)
- Black (44%)



- Cyan (44%)
- Magenta (100%)
- Yellow (46%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.0170, 7.7354, 24.3158 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 16.0170, 7.7354, 24.3158 by changing the saturation by 10% instead.

■ 16.0170, 7.7354,
24.3158

■ 16.0170, 7.7354,
24.3158

222.7104,
173.6417, 287.7510

■ 9.6271, 3.9261,
15.3537

■ 36.1849, 21.4381,
51.4953

■ 5.2128, 1.6323,
8.9186

■ 50.6937, 32.1002,
70.5498

■ 2.4087, 0.3792,
4.5920

■ 68.6394, 45.8155,
93.8055

■ 0.8494, 0.0000,
1.9554

■ 90.3875, 62.9682,
121.6810


■ 0.0000, 0.0000,
0.5277

■ 116.3033, 83.9428,
154.5947

■ 0.0000, 0.0000,
0.0000

■ 146.7521,


109.1236, 192.9652

 182.0994,
138.8951, 237.2112

 16.0170, 7.7354,
24.3158

 16.0170, 7.7354,
24.3158


 16.0172, 7.7355,
24.3157

 16.2302, 8.0809,
24.6355

 16.5531, 8.6455,
24.9934

 17.0409, 9.5395,
25.4078

 17.7143, 10.8040,
25.8858

 18.5905, 12.4738,
26.4329

■ 19.6852, 14.5798,
27.0545

■ 21.0122, 17.1501,
27.7552

■ 22.5844, 20.2101,
28.5392

■ 24.4136, 23.7837,
29.4105

Harmonies

Analogous

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



11.8317, 7.7354, 44.1825



16.0170, 7.7354, 24.3158



17.7467, 7.7354, 8.3391

Triad

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



16.0170, 7.7354, 24.3158



7.3231, 7.7354, 0.0000



2.5761, 7.7354, 24.6110

Complementary

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



16.0170, 7.7354, 24.3158



10.0120, 19.9623, 3.5268

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.



2.1001, 7.7354, 8.5065



16.0170, 7.7354, 24.3158



4.1757, 7.7354, 0.0000

Square

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



16.0170, 7.7354, 24.3158



11.7623, 7.7354, 0.0000



2.5616, 7.7354, 1.6103



4.2106, 7.7354, 44.4358

Rectangle

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



16.0170, 7.7354, 24.3158



16.9245, 7.7354, 2.9507



2.5616, 7.7354, 1.6103



2.3079, 7.7354, 18.2936

Sweetspot

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



16.0173, 7.7358, 24.3159



36.9020, 29.9415, 48.8717



5.0945, 2.0449, 26.5123



8.2506, 6.4553, 11.0972



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



16.0173, 7.7358, 24.3159



28.2319, 13.6362, 42.7909



12.5212, 6.3373, 5.9059



5.6151, 5.5066, 6.7371



13.9503, 6.7371, 21.1875



0.1356, 0.0653, 0.2145

Inverse Universe

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



16.0173, 7.7358, 24.3159



28.2319, 13.6362, 42.7909



11.3063, 20.4800, 10.3423



5.6151, 5.5066, 6.7371



13.9503, 6.7371, 21.1875



0.1356, 0.0653, 0.2145

Previews

White Background



This preview shows how the XYZ color 16.0170, 7.7354, 24.3158 looks on a white background.

Color Contrast Check

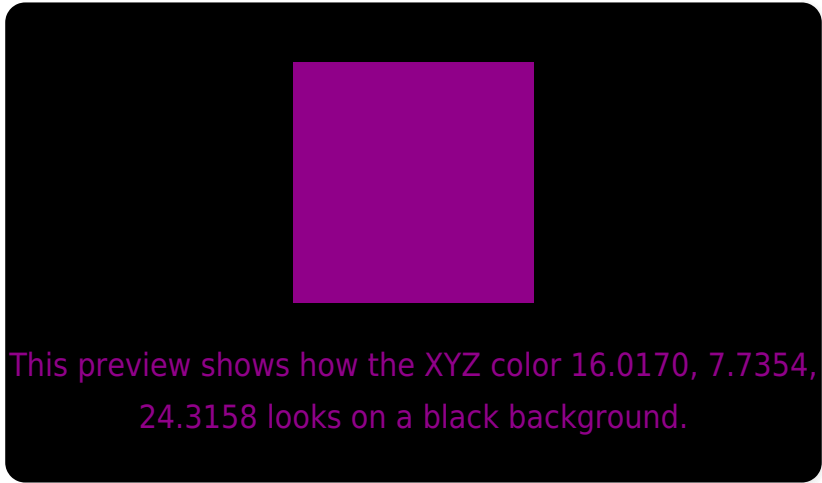
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

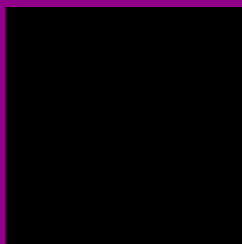
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.0170, 7.7354, 24.3158

Background



This preview shows how black text looks on a background with the XYZ color 16.0170, 7.7354, 24.3158.



This preview shows how white text looks on a background with the XYZ color 16.0170, 7.7354,

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

16.0170, 7.7354, 24.3158

Protanopia

9.7710, 8.3820, 37.6621

Deuteranopia

8.6106, 8.4603, 21.9481



Tritanopia

12.2110, 8.1680, 4.8039

Trichromacy



Original Color

16.0170, 7.7354, 24.3158



Protanomaly

8.5575, 5.4116, 32.0460



Deuteranomaly

9.4174, 6.1966, 22.5295



Tritanomaly

12.8992, 7.3049, 9.5342

Monochromacy



Original Color

16.0170, 7.7354, 24.3158



Achromatopsia

4.1570, 4.3735, 4.7627



Achromatomaly

6.6299, 4.2480, 9.4873

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.0170, 7.7354, 24.3158 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(144, 0, 137)` looks like.

```
.text, #text, p{  
    color:rgb(144, 0, 137)  
}
```

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(144, 0, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 0, 137) }
```

Border

The CSS property to change the border of an element to XYZ 16.0170, 7.7354, 24.3158 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(144, 0, 137) }
```


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

```
.border{ border-color:rgb(144, 0, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 0, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 0, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 0, 137);  
box-shadow:4px 4px 4px 4px rgb(144, 0,  
137) }
```

Background

The CSS property to change the background color of an element to XYZ 16.0170, 7.7354, 24.3158 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 0, 137) }
```

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

```
.background{ background-color: rgb(144, 0,  
137) }
```

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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