

# Converting Colors

XYZ(16.4971, 8.1164, 18.3096)

Have a look what the booklet for  
XYZ(16.4971, 8.1164, 18.3096)  
contains.

<b>XYZ(16.5270, 8.1284, 18.4672)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(16.5270, 8.1284,  
18.4672)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	990078
RGB	153, 0, 120
RGB Percent	60%, 0%, 47%
CMY	0.4000, 0.9999, 0.5294
CMYK	0.00, 1.00, 0.22, 0.40
HSL	313°, 100%, 30%
HSV	313°, 100%, 60%
XYZ	16.5270, 8.1284, 18.4672
YIQ	59.4270, 52.6680, 69.7560

# Conversions

## Conversions Part 2

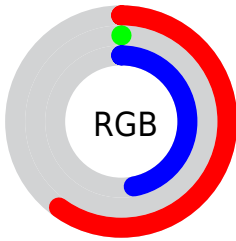
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	153, 0, 120
Decimal	10027128
CIE <sub>Lab</sub>	34.25, 62.49, -24.07
CIE <sub>LCh</sub>	34, 66.962, 338.932
Yxy	8.1284, 0.3833, 0.1885
Android (android.graphics.Color)	4288217208 (0xFF990078)
YUV	59.4270, 29.8625, 82.0635
Hunter-Lab	28.5103, 53.5805, -18.4471

# Details

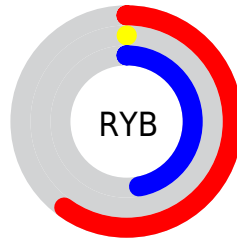
The XYZ color **16.5270, 8.1284, 18.4672** is a dark color, and the websafe version is hex **990066**. A complement of this color would be **11.6663, 22.8925, 5.2442**, and the grayscale version is **4.1724, 4.3897, 4.7803**.

A 20% lighter version of the original color is **37.0607, 22.1738, 41.8618**, and **6.0671, 2.9963, 6.2198** is the 20% darker color. If you saturate the color by 10%, you get **16.5268, 8.1283, 18.4658**, and if you desaturate by 10%, it is **16.9063, 8.5607, 19.5991**.

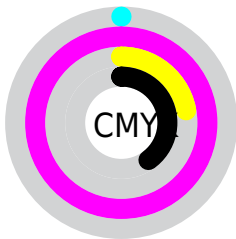
# Distribution



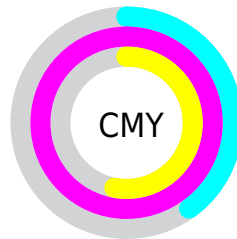
- Red (60%)
- Green (0%)
- Blue (47%)



- Red (60%)
- Yellow (0%)
- Blue (47%)



- Cyan (0%)
- Magenta (100%)
- Yellow (22%)
- Black (40%)




- Cyan (40%)
- Magenta (100%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.5270, 8.1284, 18.4672 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 16.5270, 8.1284, 18.4672 by changing the saturation by 10% instead.





 16.5270, 8.1284,  
18.4672


 16.5270, 8.1284,  
18.4672


225.6414,  
176.7357, 255.8154


 9.9910, 4.1772,  
11.1130


 37.0608, 22.2098,  
41.6565


 5.4552, 1.7732,  
6.0278

 51.7894, 33.1088,  
58.3286


 2.5542, 0.4704,  
2.7929

 69.9795, 47.0925,  
78.9439

 0.9227, 0.0000,  
0.9899

 91.9966, 64.5453,  
103.9208

 0.0000, 0.0000,  
0.0000

 118.2060, 85.8516,  
133.6778

 148.9730,

111.3959, 168.6336

184.6631,  
141.5624, 209.2066

16.5270, 8.1284,  
18.4672

16.5270, 8.1284,  
18.4672

16.5268, 8.1283,  
18.4658

16.9063, 8.5607,  
19.5991

17.4218, 9.2545,  
20.8107

18.1334, 10.3292,  
22.1225

19.0650, 11.8325,  
23.5426

20.2371, 13.8051,  
25.0782

■ 21.6676, 16.2832,  
26.7357

■ 23.3729, 19.2992,  
28.5209

■ 25.3680, 22.8828,  
30.4388

■ 27.6666, 27.0617,  
32.4946

# Harmonies

## Analogous

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



13.1601, 8.1284, 36.3360



16.5270, 8.1284, 18.4672



17.1866, 8.1284, 6.0313

# Triad

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



16.5270, 8.1284, 18.4672



6.6658, 8.1284, 0.0000



3.3848, 8.1284, 29.0236

# Complementary

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



16.5270, 8.1284, 18.4672



11.6663, 22.8925, 5.2442

# 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.



2.5889, 8.1284, 12.4342



16.5270, 8.1284, 18.4672



4.0411, 8.1284, 0.4866

# Square

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



16.5270, 8.1284, 18.4672



10.5986, 8.1284, 0.0000



2.7827, 8.1284, 3.3331



5.4256, 8.1284, 45.1328



# Rectangle

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



16.5270, 8.1284, 18.4672



15.8471, 8.1284, 2.1721



2.7827, 8.1284, 3.3331



2.9983, 8.1284, 22.9529

# Sweetspot

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



16.5273, 8.1288, 18.4673



41.6586, 34.2067, 50.8771



6.3036, 2.5857, 30.3039



8.9284, 7.0732, 10.9575



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

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



16.5273, 8.1288, 18.4673



29.5270, 14.5286, 32.6981



13.6286, 6.9693, 3.2029



6.4041, 6.3008, 7.5083



13.6717, 6.7229, 15.3278



0.2171, 0.1056, 0.2961



# Inverse Universe

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



16.5273, 8.1288, 18.4673



29.5270, 14.5286, 32.6981



14.0509, 23.8464, 17.8015



6.4041, 6.3008, 7.5083



13.6717, 6.7229, 15.3278



0.2171, 0.1056, 0.2961



# Previews

## White Background



This preview shows how the XYZ color 16.5270, 8.1284, 18.4672 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

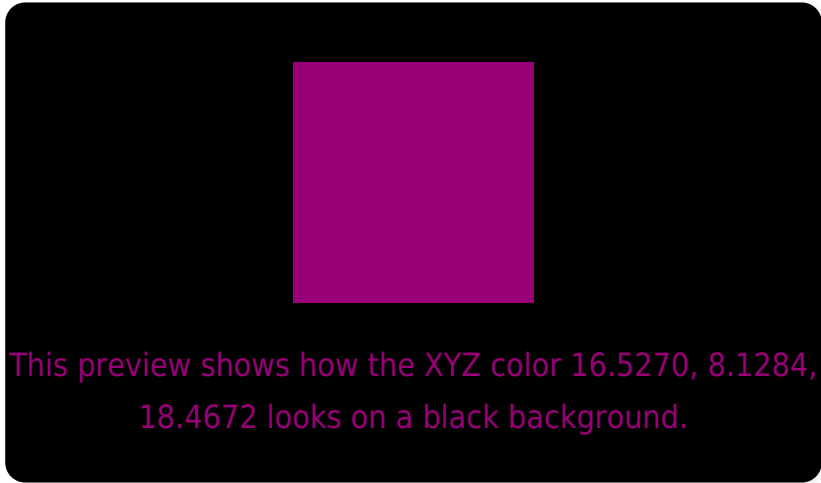
Any Text WCAG AA ✓ Pass

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

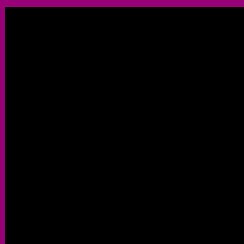
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 16.5270, 8.1284, 18.4672**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.5270, 8.1284, 18.4672.



This preview shows how white text looks on a background with the XYZ color 16.5270, 8.1284,



# 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

16.5270, 8.1284, 18.4672

### Protanopia

10.3951, 8.8887, 39.1980

### Deuteranopia

8.8436, 8.7003, 16.5425



## Tritanopia

13.6249, 8.4664, 3.9337

# Trichromacy



## Original Color

16.5270, 8.1284, 18.4672



## Protanomaly

9.0755, 5.8468, 30.3560



## Deuteranomaly

9.9160, 6.5774, 16.9666



## Tritanomaly

14.1287, 7.8261, 7.4225

# Monochromacy



## Original Color

16.5270, 8.1284, 18.4672



## Achromatopsia

4.1570, 4.3735, 4.7627



## Achromatomaly

6.6925, 4.3075, 8.2633

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.5270, 8.1284, 18.4672 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(153, 0, 120)` looks like.

```
.text, #text, p{  
    color:rgb(153, 0, 120)  
}
```

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(153, 0, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 0, 120) }
```

## Border

The CSS property to change the border of an element to XYZ 16.5270, 8.1284, 18.4672 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(153, 0, 120) }
```



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

```
.border{ border-color:rgb(153, 0, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 0, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 0, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 0, 120);  
box-shadow:4px 4px 4px 4px rgb(153, 0,  
120) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.5270, 8.1284, 18.4672 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 0, 120) }
```

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

```
.background{ background-color: rgb(153, 0,  
120) }
```

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](#).

# Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor