

Converting Colors

XYZ(12.9753, 6.3472, 16.0534)

Have a look what the booklet for
XYZ(12.9753, 6.3472, 16.0534)
contains.

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Color

**XYZ(12.9723, 6.3432,
16.1634)**

Conversions

Conversions Part 1

Format	Color
Hex	870071
RGB	135, 0, 113
RGB Percent	53%, 0%, 44%
CMY	0.4706, 0.9999, 0.5569
CMYK	0.00, 1.00, 0.16, 0.47
HSL	310°, 100%, 26%
HSV	310°, 100%, 53%
XYZ	12.9723, 6.3432, 16.1634
YIQ	53.2470, 44.1870, 63.7630

Conversions

Conversions Part 2

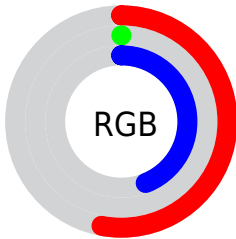
Format	Color
RYB	135, 0, 113
Decimal	8847473
CIELab	30.26, 58.03, -26.14
CIElCh	30, 63.640, 335.753
Yxy	6.3432, 0.3656, 0.1788
Android (android.graphics.Color)	4287037553 (0xFF870071)
YUV	53.2470, 29.4582, 71.6974
Hunter-Lab	25.1857, 47.8643, -20.4205

Details

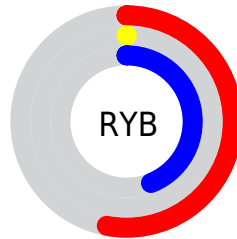
The XYZ color **12.9723, 6.3432, 16.1634** is a dark color, and the websafe version is hex **660066**. A complement of this color would be **8.8092, 17.3861, 3.6514**, and the grayscale version is **3.3766, 3.5524, 3.8686**.

A 20% lighter version of the original color is **30.9123, 18.6882, 37.5752**, and **4.2624, 2.0871, 5.1792** is the 20% darker color. If you saturate the color by 10%, you get **12.9722, 6.3431, 16.1627**, and if you desaturate by 10%, it is **13.2484, 6.6946, 16.8741**.

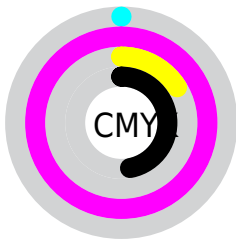
Distribution



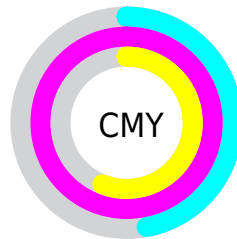
- Red (53%)
- Green (0%)
- Blue (44%)



- Red (53%)
- Yellow (0%)
- Blue (44%)



- Cyan (0%)
- Magenta (100%)
- Yellow (16%)
- Black (47%)



- Cyan (47%)
- Magenta (100%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9723, 6.3432, 16.1634 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 12.9723, 6.3432, 16.1634 by changing the saturation by 10% instead.

12.9723, 6.3432,
16.1634

12.9723, 6.3432,
16.1634

204.3813,
162.0890, 242.1825

7.4863, 3.0549,
9.4842

30.8557, 18.6391,
37.6524

3.8171, 1.1604,
4.9573

43.9840, 28.4156,
53.2993

1.5992, 0.0290,
2.1639

60.3903, 41.1234,
72.7725

0.3919, 0.0000,
0.6534


80.4401, 57.1472,
96.4906

0.0000, 0.0000,
0.0000

104.4987, 76.8713,
124.8721

132.9316,

100.6800, 158.3356


 166.1040,
128.9577, 197.2995

 12.9723, 6.3432,
16.1634

 12.9723, 6.3432,
16.1634


 12.9722, 6.3431,
16.1627

 13.2484, 6.6946,
16.8741

 13.6185, 7.2293,
17.6310

 14.1340, 8.0499,
18.4514

 14.8122, 9.1910,
19.3412

 15.6679, 10.6822,
20.3054

■ 16.7143, 12.5498,
21.3484

■ 17.9633, 14.8176,
22.4744

■ 19.4258, 17.5074,
23.6871

■ 21.1120, 20.6395,
24.9900

Harmonies

Analogous

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



10.0698, 6.3432, 30.8850



12.9723, 6.3432, 16.1634



13.7891, 6.3432, 5.3786

Triad

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



12.9723, 6.3432, 16.1634



5.4687, 6.3432, 0.0000



2.4530, 6.3432, 21.7687

Complementary

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



12.9723, 6.3432, 16.1634



8.8092, 17.3861, 3.6514

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.



1.9164, 6.3432, 8.6998



12.9723, 6.3432, 16.1634



3.2461, 6.3432, 0.0370

Square

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



12.9723, 6.3432, 16.1634



8.7239, 6.3432, 0.0000



2.1488, 6.3432, 2.0991



3.9556, 6.3432, 35.6046

Rectangle

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



12.9723, 6.3432, 16.1634



12.8658, 6.3432, 1.9261



2.1488, 6.3432, 2.0991



2.1812, 6.3432, 16.8673

Sweetspot

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



12.9725, 6.3435, 16.1635



32.0038, 26.2340, 40.1045



4.6673, 1.9011, 23.0427



7.2137, 5.7147, 9.1131



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.9725, 6.3435, 16.1635



23.1811, 11.3394, 28.6832



10.5103, 5.3586, 3.1973



4.8262, 4.7501, 5.6969



11.9661, 5.8508, 14.9255



0.0436, 0.0211, 0.0631

Inverse Universe

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



12.9725, 6.3435, 16.1635



23.1811, 11.3394, 28.6832



10.4156, 18.0287, 12.1105



4.8262, 4.7501, 5.6969



11.9661, 5.8508, 14.9255



0.0436, 0.0211, 0.0631

Previews

White Background



This preview shows how the XYZ color 12.9723, 6.3432, 16.1634 looks on a white background.

Color Contrast Check

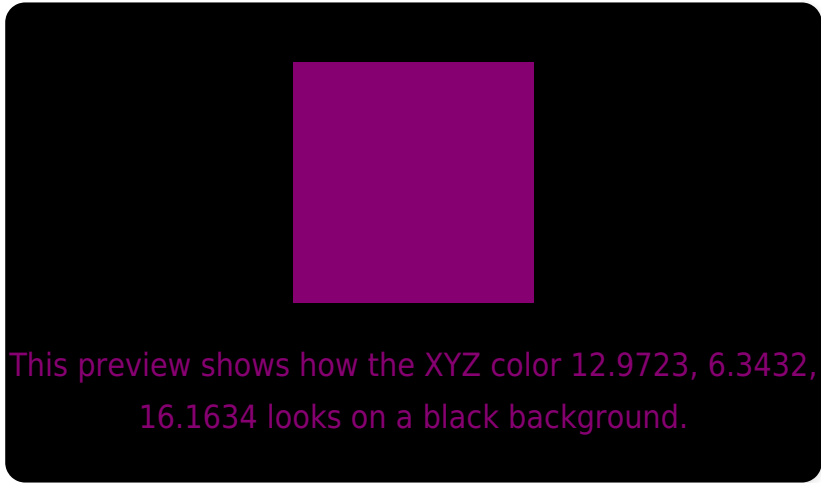
Large Text (above 18pt) WCAG AA ✓ Pass

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

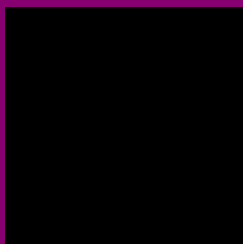
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9723, 6.3432, 16.1634

Background



This preview shows how black text looks on a background with the XYZ color 12.9723, 6.3432, 16.1634.



This preview shows how white text looks on a background with the XYZ color 12.9723, 6.3432,

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

12.9723, 6.3432, 16.1634

Protanopia

8.0671, 6.9346, 31.0503

Deuteranopia

7.1002, 6.9949, 14.6116



Tritanopia

10.4670, 6.6737, 3.4258

Trichromacy



Original Color

12.9723, 6.3432, 16.1634



Protanomaly

6.8311, 4.4419, 24.5421



Deuteranomaly

7.8967, 5.2610, 15.0673



Tritanomaly

10.9127, 6.1107, 6.5656

Monochromacy



Original Color

12.9723, 6.3432, 16.1634



Achromatopsia

3.3839, 3.5601, 3.8770



Achromatomaly

5.4093, 3.4911, 7.0453

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9723, 6.3432, 16.1634 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(135, 0, 113)` looks like.

```
.text, #text, p{  
    color:rgb(135, 0, 113)  
}
```

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(135, 0, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 0, 113) }
```

Border

The CSS property to change the border of an element to XYZ 12.9723, 6.3432, 16.1634 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(135, 0, 113) }
```


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

```
.border{ border-color:rgb(135, 0, 113) }
```

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

Here you see how a box with a 4 pixel rgb(135, 0, 113) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 0, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 0, 113);  
box-shadow:4px 4px 4px 4px rgb(135, 0,  
113) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9723, 6.3432, 16.1634 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 0, 113) }
```

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

```
.background{ background-color: rgb(135, 0,  
113) }
```

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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