

Converting Colors

XYZ(12.8645, 6.2261, 18.9532)

Have a look what the booklet for
XYZ(12.8645, 6.2261, 18.9532)
contains.

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Color

**XYZ(12.8729, 6.2304,
18.9365)**

Conversions

Conversions Part 1

Format	Color
Hex	83007A
RGB	131, 0, 122
RGB Percent	51%, 0%, 48%
CMY	0.4863, 1.0000, 0.5216
CMYK	0.00, 1.00, 0.07, 0.49
HSL	304°, 100%, 26%
HSV	304°, 100%, 51%
XYZ	12.8729, 6.2304, 18.9365
YIQ	53.0770, 38.9140, 65.7140

Conversions

Conversions Part 2

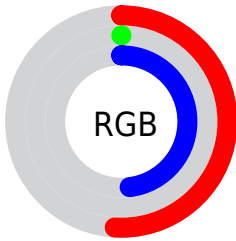
Format	Color
R_YB	131, 0, 122
Decimal	8585338
CIE Lab	29.99, 58.56, -32.35
CIE LCh	30, 66.898, 331.080
Yxy	6.2304, 0.3384, 0.1638
Android (android.graphics.Color)	4286775418 (0xFF83007A)
YUV	53.0770, 33.9790, 68.3385
Hunter-Lab	24.9608, 48.3756, -27.5078

Details

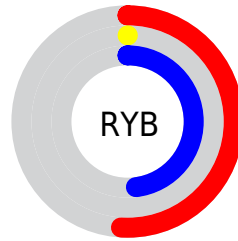
The XYZ color **12.8729, 6.2304, 18.9365** is a dark color, and the websafe version is hex **660066**. A complement of this color would be **8.1659, 16.2526, 2.9654**, and the grayscale version is **3.3508, 3.5253, 3.8391**.

A 20% lighter version of the original color is **30.5487, 18.2947, 42.4786**, and **4.2632, 2.0588, 6.4760** is the 20% darker color. If you saturate the color by 10%, you get **12.8730, 6.2305, 18.9364**, and if you desaturate by 10%, it is **13.0744, 6.5436, 19.2802**.

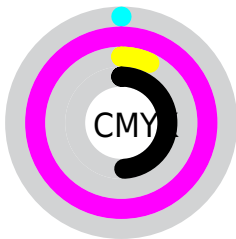
Distribution



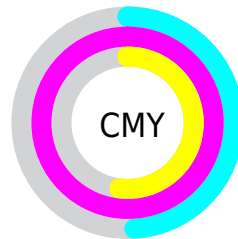
- Red (51%)
- Green (0%)
- Blue (48%)



- Red (51%)
- Yellow (0%)
- Blue (48%)



- Cyan (0%)
- Magenta (100%)
- Yellow (7%)
- Black (49%)



- Cyan (49%)
- Magenta (100%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8729, 6.2304, 18.9365 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 12.8729, 6.2304, 18.9365 by changing the saturation by 10% instead.

12.8729, 6.2304,
18.9365

12.8729, 6.2304,
18.9365

203.7556,
161.1065, 258.5090

7.4175, 2.9857,
11.4481

30.6785, 18.4073,
42.4620

3.7732, 1.1243,
6.2511

43.7594, 28.1083,
59.3362

1.5746, 0.0000,
2.9271

60.1129, 40.7302,
80.1761

0.3758, 0.0000,
1.0575

80.1042, 56.6573,
105.4001

0.0000, 0.0000,
0.0000

104.0988, 76.2741,
135.4269

132.4620, 99.9650,

170.6749

165.5591,
128.1143, 211.5628

12.8729, 6.2304,
18.9365

12.8729, 6.2304,
18.9365

12.8730, 6.2305,
18.9364

13.0744, 6.5436,
19.2802

13.3597, 7.0237,
19.6543

13.7785, 7.7698,
20.0754

14.3467, 8.8142,
20.5490

15.0782, 10.1841,
21.0795

■ 15.9851, 11.9040,
21.6711

■ 17.0784, 13.9960,
22.3275

■ 18.3683, 16.4802,
23.0519

■ 19.8641, 19.3755,
23.8476

Harmonies

Analogous

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



9.5877, 6.2304, 34.6770



12.8729, 6.2304, 18.9365



14.1669, 6.2304, 6.4652

Triad

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



12.8729, 6.2304, 18.9365



5.8095, 6.2304, 0.0000



2.1280, 6.2304, 20.0702

Complementary

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



12.8729, 6.2304, 18.9365



8.1659, 16.2526, 2.9654

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.



1.7224, 6.2304, 7.1128



12.8729, 6.2304, 18.9365



3.3345, 6.2304, 0.0000

Square

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



12.8729, 6.2304, 18.9365



9.3202, 6.2304, 0.0000



2.0714, 6.2304, 1.4074



3.4698, 6.2304, 35.6467

Rectangle

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



12.8729, 6.2304, 18.9365



13.4630, 6.2304, 2.2924



2.0714, 6.2304, 1.4074



1.9041, 6.2304, 15.0240

Sweetspot

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



12.8731, 6.2307, 18.9366



30.4352, 24.7790, 39.8973



4.2063, 1.6953, 21.5785



6.9141, 5.4396, 9.1876



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.8731, 6.2307, 18.9366



23.0296, 11.1482, 33.7895



10.0931, 5.1187, 4.2972



4.8444, 4.7575, 5.7932



12.6718, 6.1331, 18.6419



0.0449, 0.0217, 0.0700

Inverse Universe

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



12.8731, 6.2307, 18.9366



23.0296, 11.1482, 33.7895



9.3606, 16.7304, 9.2566



4.8444, 4.7575, 5.7932



12.6718, 6.1331, 18.6419



0.0449, 0.0217, 0.0700

Previews

White Background



This preview shows how the XYZ color 12.8729, 6.2304, 18.9365 looks on a white background.

Color Contrast Check

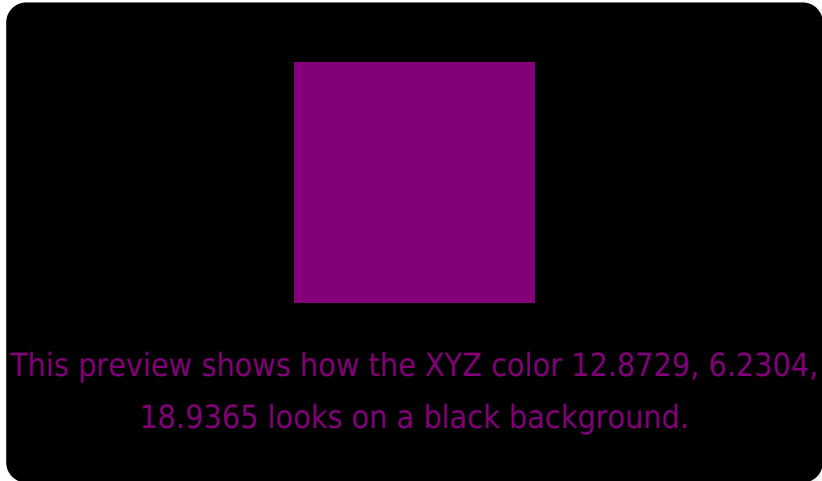
Large Text (above 18pt) WCAG AA ✓ Pass

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

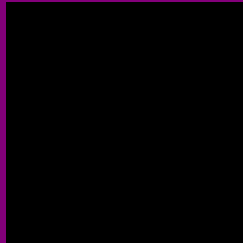
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8729, 6.2304, 18.9365

Background



This preview shows how black text looks on a background with the XYZ color 12.8729, 6.2304, 18.9365.



This preview shows how white text looks on a background with the XYZ color 12.8729, 6.2304,

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

12.8729, 6.2304, 18.9365

Deuteranopia

7.0115, 6.8922, 17.1804

Tritanopia

9.9667, 6.6380, 3.8879

Trichromacy



Original Color

12.8729, 6.2304, 18.9365

Deuteranomaly

7.6799, 5.0904, 17.7173

Tritanomaly

10.5819, 6.0278, 7.6269

Monochromacy



Original Color

12.8729, 6.2304, 18.9365

Achromatopsia

3.3839, 3.5601, 3.8770

Achromatomaly

5.3405, 3.4434, 7.5909

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8729, 6.2304, 18.9365 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(131, 0, 122)` looks like.

```
.text, #text, p{  
    color:rgb(131, 0, 122)  
}
```

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(131, 0, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 0, 122) }
```

Border

The CSS property to change the border of an element to XYZ 12.8729, 6.2304, 18.9365 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(131, 0, 122) }
```

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

```
.border{ border-color:rgb(131, 0, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 0, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 0, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 0, 122);  
box-shadow:4px 4px 4px 4px rgb(131, 0,  
122) }
```


Background

The CSS property to change the background color of an element to XYZ 12.8729, 6.2304, 18.9365 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 0, 122) }
```

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

```
.background{ background-color: rgb(131, 0,  
122) }
```

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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