

Converting Colors

XYZ(12.2340, 6.2836, 1.6239)

Have a look what the booklet for
XYZ(12.2340, 6.2836, 1.6239)
contains.

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Color

**XYZ(12.2305, 6.2822,
1.6049)**

Conversions

Conversions Part 1

Format	Color
Hex	93001B
RGB	147, 0, 27
RGB Percent	58%, 0%, 11%
CMY	0.4235, 0.9999, 0.8941
CMYK	0.00, 1.00, 0.82, 0.42
HSL	349°, 100%, 29%
HSV	349°, 100%, 58%
XYZ	12.2305, 6.2822, 1.6049
YIQ	47.0310, 78.9450, 39.5610

Conversions

Conversions Part 2

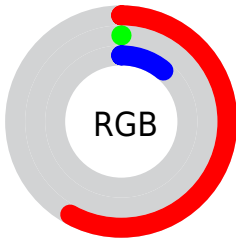
Format	Color
R_{YB}	147, 0, 27
Decimal	9633819
CIE _{Lab}	30.11, 53.66, 30.47
CIE _{LCh}	30, 61.710, 29.587
Yxy	6.2822, 0.6080, 0.3123
Android (android.graphics.Color)	4287823899 (0xFF93001B)
YUV	47.0310, -9.8753, 87.6728
Hunter-Lab	25.0643, 43.2391, 13.7486

Details

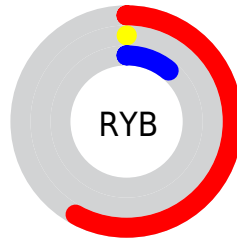
The XYZ color **12.2305, 6.2822, 1.6049** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **13.8253, 22.2240, 21.3366**, and the grayscale version is **2.7106, 2.8518, 3.1056**.

A 20% lighter version of the original color is **29.4671, 18.4996, 7.9789**, and **3.9305, 2.0262, 0.1839** is the 20% darker color. If you saturate the color by 10%, you get **12.2302, 6.2821, 1.6039**, and if you desaturate by 10%, it is **12.5657, 6.6833, 2.5474**.

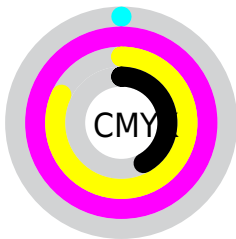
Distribution



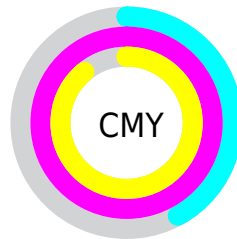
- Red (58%)
- Green (0%)
- Blue (11%)



- Red (58%)
- Yellow (0%)
- Blue (11%)



- Cyan (0%)
- Magenta (100%)
- Yellow (82%)
- Black (42%)



- Cyan (42%)
- Magenta (100%)
- Yellow (89%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2305, 6.2822, 1.6049 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 12.2305, 6.2822, 1.6049 by changing the saturation by 10% instead.

■ 12.2305, 6.2822,
1.6049

■ 12.2305, 6.2822,
1.6049

199.6642,
161.5586, 115.9041

■ 6.9742, 3.0174,
0.2943

■ 29.5274, 18.5139,
7.9294

■ 3.4921, 1.1408,
0.0000

■ 42.2988, 28.2496,
13.9236

■ 1.4190, 0.0126,
0.0000

■ 58.3058, 40.9110,
22.3638

■ 0.2697, 0.0000,
0.0000


■ 77.9140, 56.8827,
33.6686


■ 0.0000, 0.0000,
0.0000


■ 101.4885, 76.5488,
48.2565


■ 129.3948,

100.2940, 66.5460


 161.9983,
128.5024, 88.9557


 12.2305, 6.2822,
1.6049

 12.2305, 6.2822,
1.6049


 12.2302, 6.2821,
1.6039

 12.5657, 6.6833,
2.5474

 13.0799, 7.3416,
3.8601

 13.8351, 8.3723,
5.5902

 14.8576, 9.8206,
7.7703

 16.1701, 11.7250,
10.4296

■ 17.7930, 14.1197,
13.5945

■ 19.7448, 17.0356,
17.2899

■ 22.0424, 20.5010,
21.5386

■ 24.7016, 24.5422,
26.3624

Harmonies

Analogous

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



13.4375, 6.2822, 6.9557



12.2305, 6.2822, 1.6049



9.2521, 6.2822, 0.0000

Triad

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



12.2305, 6.2822, 1.6049



2.3444, 6.2822, 1.5304



5.9310, 6.2822, 38.3272

Complementary

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



12.2305, 6.2822, 1.6049



13.8253, 22.2240, 21.3366

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.



3.5750, 6.2822, 31.8218



12.2305, 6.2822, 1.6049



1.9576, 6.2822, 6.7261

Square

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



12.2305, 6.2822, 1.6049



3.6245, 6.2822, 0.0000



2.3230, 6.2822, 18.1031



9.1594, 6.2822, 32.1428

Rectangle

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



12.2305, 6.2822, 1.6049



7.0337, 6.2822, 0.0000



2.3230, 6.2822, 18.1031



5.0212, 6.2822, 37.5069

Sweetspot

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



12.2306, 6.2826, 1.6050



35.1218, 30.1506, 30.5175



12.6842, 5.9309, 28.0799



7.6988, 6.4054, 6.3668



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.2306, 6.2826, 1.6050



21.8537, 11.2308, 2.6144



12.9376, 8.0130, 0.8654



5.8417, 5.8317, 6.2726



10.6101, 5.4491, 1.4280



0.1379, 0.0699, 0.0600

Inverse Universe

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



12.2306, 6.2826, 1.6050



21.8537, 11.2308, 2.6144



10.1076, 11.7885, 29.3463



5.8417, 5.8317, 6.2726



10.6101, 5.4491, 1.4280



0.1379, 0.0699, 0.0600

Previews

White Background



This preview shows how the XYZ color 12.2305, 6.2822, 1.6049 looks on a white background.

Color Contrast Check

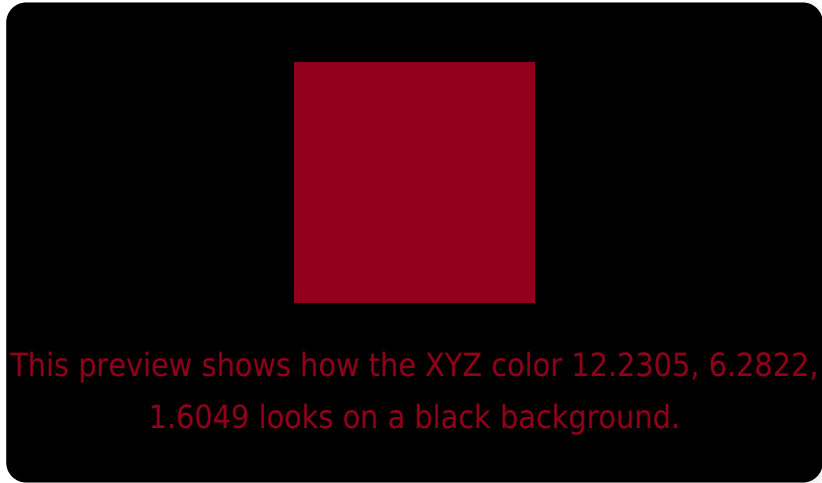
Large Text (above 18pt) WCAG AA ✓ Pass

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

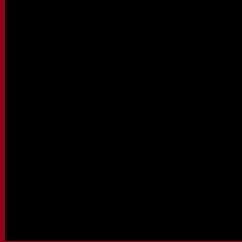
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2305, 6.2822, 1.6049

Background



This preview shows how black text looks on a background with the XYZ color 12.2305, 6.2822, 1.6049.



This preview shows how white text looks on a background with the XYZ color 12.2305, 6.2822,

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

12.2305, 6.2822, 1.6049

Protanopia

6.3464, 6.8586, 3.1798

Deuteranopia

6.9486, 6.9179, 1.3845



Tritanopia

11.9980, 6.3988, 0.6027

Trichromacy



Original Color

12.2305, 6.2822, 1.6049

Protanomaly

7.2943, 5.2308, 2.3755

Deuteranomaly

7.8660, 5.4345, 1.2505

Tritanomaly

11.9957, 6.3066, 0.8722

Monochromacy



Original Color

12.2305, 6.2822, 1.6049

Achromatopsia

2.7019, 2.8426, 3.0956

Achromatomaly

4.4146, 2.9207, 2.3386

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2305, 6.2822, 1.6049 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(147, 0, 27)` looks like.

```
.text, #text, p{  
    color:rgb(147, 0, 27)  
}
```

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(147, 0, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 0, 27) }
```

Border

The CSS property to change the border of an element to XYZ 12.2305, 6.2822, 1.6049 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(147, 0, 27) }
```


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

```
.border{ border-color:rgb(147, 0, 27) }
```

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

Here you see how a box with a 4 pixel rgb(147, 0, 27) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 0, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 0, 27);  
box-shadow:4px 4px 4px 4px rgb(147, 0, 27)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.2305, 6.2822, 1.6049 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 0, 27) }
```

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

```
.background{ background-color: rgb(147, 0,  
27) }
```

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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