

Converting Colors

XYZ(29.8483, 19.9858, 40.5780)

Have a look what the booklet for
XYZ(29.8483, 19.9858, 40.5780)
contains.

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Color

**XYZ(29.8292, 19.9559,
40.8078)**

Conversions

Conversions Part 1

Format	Color
Hex	B45AAB
RGB	180, 90, 171
RGB Percent	71%, 35%, 67%
CMY	0.2941, 0.6470, 0.3294
CMYK	0.00, 0.50, 0.05, 0.29
HSL	306°, 37%, 53%
HSV	306°, 50%, 71%
XYZ	29.8292, 19.9559, 40.8078
YIQ	126.1440, 27.6390, 44.2710

Conversions

Conversions Part 2

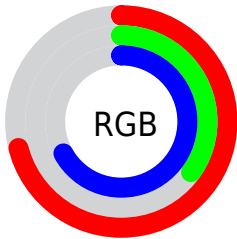
Format	Color
R_{YB}	180, 90, 171
Decimal	11819691
CIE _{Lab}	51.79, 47.60, -27.32
CIE _{LCh}	52, 54.883, 330.143
Yxy	19.9559, 0.3293, 0.2203
Android (android.graphics.Color)	4290009771 (0xFFB45AAB)
YUV	126.1440, 22.1140, 47.2317
Hunter-Lab	44.6720, 41.0151, -22.8909

Details

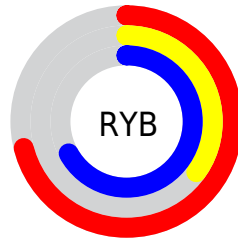
The XYZ color **29.8292, 19.9559, 40.8078** is a dark color, and the websafe version is hex **CC66CC**. A complement of this color would be **22.7907, 35.7177, 17.4986**, and the grayscale version is **19.8014, 20.8326, 22.6867**.

A 20% lighter version of the original color is **58.9475, 43.3681, 77.9371**, and **12.3890, 6.9911, 17.8360** is the 20% darker color. If you saturate the color by 10%, you get **28.3205, 17.2108, 39.4642**, and if you desaturate by 10%, it is **31.7092, 23.4389, 42.2870**.

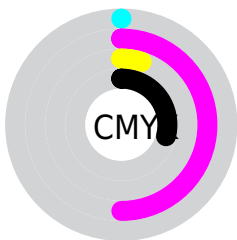
Distribution



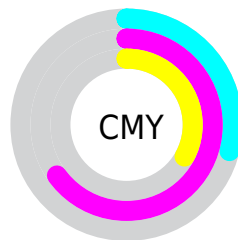
- Red (71%)
- Green (35%)
- Blue (67%)



- Red (71%)
- Yellow (35%)
- Blue (67%)



- Cyan (0%)
- Magenta (50%)
- Yellow (5%)
- Black (29%)



- Cyan (29%)
- Magenta (65%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 29.8292, 19.9559, 40.8078 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 29.8292, 19.9559, 40.8078 by changing the saturation by 10% instead.

■ 29.8292, 19.9559,
40.8078

■ 29.8292, 19.9559,
40.8078

293.0316,
251.6763, 365.1695

■ 19.8564, 12.3630,
27.8504

■ 58.7804, 43.3432,
77.6425

■ 12.3984, 6.9914,
17.9748

■ 78.4896, 59.9065,
102.3569

■ 7.0897, 3.4567,
10.7627

■ 102.1750, 80.2286,
131.8274

■ 3.5651, 1.3746,
5.7953

■ 130.2018,
104.6940, 166.4724

■ 1.4592, 0.1979,
2.6543

162.9356,
133.6870, 206.7106

■ 0.2978, 0.0000,
0.9203

200.7415,

■ 0.0000, 0.0000,

167.5922, 252.9605

0.0000

243.9851,
206.7938, 305.6406

■ 29.8292, 19.9559,
40.8078

■ 29.8292, 19.9559,
40.8078

■ 28.3205, 17.2108,
39.4642

■ 31.7092, 23.4389,
42.2870

■ 27.1541, 15.1470,
38.2460

■ 33.9827, 27.7058,
43.9089

■ 26.2999, 13.7039,
37.1434

■ 36.6728, 32.8019,
45.6811

■ 25.7217, 12.8093,
36.1441

■ 39.7999, 38.7683,
47.6107

■ 25.3442, 12.3121,
35.2231

■ 43.3832, 45.6433,
49.7041

■ 25.3441, 12.3120,
35.2229

■ 47.4408, 53.4631,
51.9674

■ 51.9898, 62.2618,
54.4062

■ 57.0463, 72.0718,
57.0261

■ 62.6259, 82.9241,
59.8322

Harmonies

Analogous

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



24.8569, 19.9559, 60.4045



29.8292, 19.9559, 40.8078



31.7891, 19.9559, 21.6523

Triad

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



29.8292, 19.9559, 40.8078



18.9408, 19.9559, 3.2424



11.1446, 19.9559, 41.0096

Complementary

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



29.8292, 19.9559, 40.8078



22.7907, 35.7177, 17.4986

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.



10.1611, 19.9559, 21.8051



29.8292, 19.9559, 40.8078



14.0906, 19.9559, 4.5519

Square

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



29.8292, 19.9559, 40.8078



24.8016, 19.9559, 4.5250



11.1259, 19.9559, 9.7745



14.1285, 19.9559, 60.5557

Rectangle

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



29.8292, 19.9559, 40.8078



30.8756, 19.9559, 12.8001



11.1259, 19.9559, 9.7745



10.5985, 19.9559, 34.0662

Sweetspot

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



29.8299, 19.9568, 40.8082



69.0821, 64.4040, 84.4513



17.0409, 13.2613, 44.8420



14.6817, 13.4446, 18.0978



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



29.8299, 19.9568, 40.8082



51.1052, 30.7662, 71.3189



26.2452, 18.5230, 21.9317



8.8127, 8.6318, 10.5120



17.7025, 8.5986, 24.6573



0.5675, 0.2747, 0.8311

Inverse Universe

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



29.8299, 19.9568, 40.8082



51.1052, 30.7662, 71.3189



25.5725, 36.8304, 32.1477



8.8127, 8.6318, 10.5120



17.7025, 8.5986, 24.6573



0.5675, 0.2747, 0.8311

Previews

White Background



This preview shows how the XYZ color 29.8292, 19.9559, 40.8078 looks on a white background.

Color Contrast Check

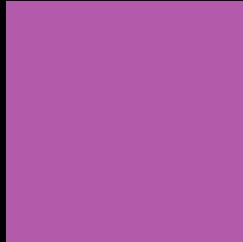
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 29.8292, 19.9559, 40.8078 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

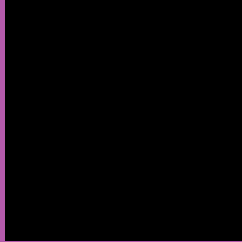
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 29.8292, 19.9559, 40.8078

Background



This preview shows how black text looks on a background with the XYZ color 29.8292, 19.9559, 40.8078.



This preview shows how white text looks on a background with the XYZ color 29.8292, 19.9559,

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

29.8292, 19.9559, 40.8078

Protanopia

21.7569, 20.3832, 55.6110

Deuteranopia

20.5611, 20.1464, 38.4023



Tritanopia

25.1085, 19.9547, 17.8575

Trichromacy



Original Color

29.8292, 19.9559, 40.8078



Protanomaly

23.2572, 19.2183, 50.0607



Deuteranomaly

22.8675, 19.2602, 39.0716



Tritanomaly

26.6000, 19.8472, 24.6192

Monochromacy



Original Color

29.8292, 19.9559, 40.8078



Achromatopsia

19.8309, 20.8637, 22.7206



Achromatomaly

22.6417, 19.8742, 28.2340

CSS Examples

Text

The CSS property to change the color of the text to XYZ 29.8292, 19.9559, 40.8078 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(180, 90, 171)` looks like.

```
.text, #text, p{  
    color:rgb(180, 90, 171)  
}
```

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(180, 90, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 90, 171) }
```

Border

The CSS property to change the border of an element to XYZ 29.8292, 19.9559, 40.8078 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(180, 90, 171) }
```


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

```
.border{ border-color:rgb(180, 90, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 90, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 90, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 90, 171);  
box-shadow:4px 4px 4px 4px rgb(180, 90,  
171) }
```

Background

The CSS property to change the background color of an element to XYZ 29.8292, 19.9559, 40.8078 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 90, 171) }
```

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

```
.background{ background-color: rgb(180, 90,  
171) }
```

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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