

Converting Colors

XYZ(12.1565, 15.6604, 29.1704)

Have a look what the booklet for
XYZ(12.1565, 15.6604, 29.1704)
contains.

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Color

**XYZ(12.1582, 15.6478,
29.1676)**

Conversions

Conversions Part 1

Format	Color
Hex	167891
RGB	22, 120, 145
RGB Percent	9%, 47%, 57%
CMY	0.9137, 0.5294, 0.4314
CMYK	0.85, 0.17, 0.00, 0.43
HSL	192°, 74%, 33%
HSV	192°, 85%, 57%
XYZ	12.1582, 15.6478, 29.1676
YIQ	93.5480, -66.4330, -13.0010

Conversions

Conversions Part 2

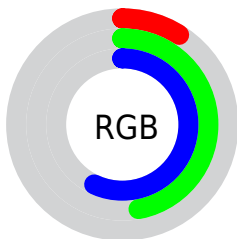
Format	Color
R_{YB}	22, 77, 145
Decimal	1472657
CIE _{Lab}	46.51, -17.51, -21.15
CIE _{LCh}	47, 27.457, 230.390
Yxy	15.6478, 0.2134, 0.2747
Android (android.graphics.Color)	4279662737 (0xFF167891)
YUV	93.5480, 25.3658, -62.7476
Hunter-Lab	39.5573, -14.3621, -16.0274

Details

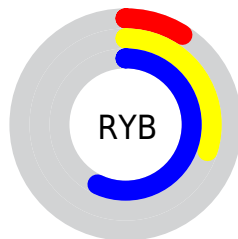
The XYZ color **12.1582, 15.6478, 29.1676** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.8392, 8.1120, 1.6489**, and the grayscale version is **10.4874, 11.0336, 12.0156**.

A 20% lighter version of the original color is **29.2778, 35.8022, 59.4002**, and **4.2736, 5.3146, 11.3903** is the 20% darker color. If you saturate the color by 10%, you get **11.5725, 14.8280, 29.0405**, and if you desaturate by 10%, it is **12.9331, 16.5820, 29.3074**.

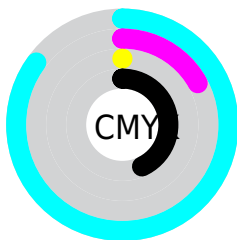
Distribution



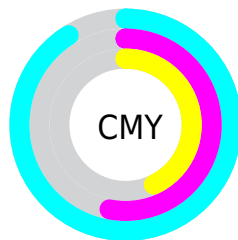
- Red (9%)
- Green (47%)
- Blue (57%)



- Red (9%)
- Yellow (30%)
- Blue (57%)



- Cyan (85%)
- Magenta (17%)
- Yellow (0%)
- Black (43%)



- Cyan (91%)
- Magenta (53%)
- Yellow (43%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1582, 15.6478, 29.1676 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 12.1582, 15.6478, 29.1676 by changing the saturation by 10% instead.

12.1582, 15.6478,
29.1676

12.1582, 15.6478,
29.1676

199.1984,
227.2544, 312.0906

6.9245, 9.2753,
18.9610

29.3973, 35.9857,
59.3886

3.4608, 4.9212,
11.4656

42.1333, 50.7198,
80.2401

1.4019, 2.2011,
6.2628

58.1009, 69.0100,
105.4769

0.2576, 0.7206,
2.9342

77.6653, 91.2405,
135.5177

0.0000, 0.0000,
1.0611

101.1919,
117.7958, 170.7809

0.0000, 0.0000,
0.0000

129.0460,

149.0603, 211.6851

161.5931,
185.4184, 258.6488

■ 12.1582, 15.6478,
29.1676

■ 12.1582, 15.6478,
29.1676

■ 11.5725, 14.8280,
29.0405

■ 12.9331, 16.5820,
29.3074

■ 11.3018, 14.4262,
28.9773

■ 13.9245, 17.6437,
29.4601

■ 15.1548, 18.8452,
29.6271

■ 16.6434, 20.1964,
29.8095

■ 18.4075, 21.7064,
30.0080

■ 20.4629, 23.3835,
30.2233

■ 22.8241, 25.2352,
30.4563

■ 25.5045, 27.2687,
30.7075

■ 28.5170, 29.4906,
30.9776

Harmonies

Analogous

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



11.0050, 15.6478, 21.9894



12.1582, 15.6478, 29.1676



14.1266, 15.6478, 33.3718

Triad

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



12.1582, 15.6478, 29.1676



19.8213, 15.6478, 19.3053



13.3442, 15.6478, 7.5147

Complementary

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



12.1582, 15.6478, 29.1676



12.8392, 8.1120, 1.6489

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.



15.6448, 15.6478, 7.1538



12.1582, 15.6478, 29.1676



19.5547, 15.6478, 12.8916

Square

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



12.1582, 15.6478, 29.1676



18.6579, 15.6478, 26.7612



17.9640, 15.6478, 8.8459



11.6377, 15.6478, 10.0112

Rectangle

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



12.1582, 15.6478, 29.1676



15.7080, 15.6478, 33.3235



17.9640, 15.6478, 8.8459



14.0677, 15.6478, 7.1711

Sweetspot

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



12.1587, 15.6484, 29.1680



36.3691, 41.6546, 54.0968



10.9620, 20.6239, 6.0515



7.8248, 9.0520, 12.0070



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.1587, 15.6484, 29.1680



20.1139, 25.5834, 51.8515



7.0015, 5.3338, 27.4489



5.4685, 5.9327, 6.8857



9.7124, 12.4108, 24.8607



0.1081, 0.1491, 0.2428

Inverse Universe

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



15.3546, 7.9503, 18.4950



26.4446, 12.9936, 30.1133



17.1958, 16.8251, 3.1010



5.5799, 5.4925, 6.5519



12.7055, 6.2392, 14.6323



0.1292, 0.0627, 0.1803

Previews

White Background



This preview shows how the XYZ color 12.1582, 15.6478, 29.1676 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 × Fail

Black Background



This preview shows how the XYZ color 12.1582, 15.6478, 29.1676 looks on a black 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

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

XYZ 12.1582, 15.6478, 29.1676

Background



This preview shows how black text looks on a background with the XYZ color 12.1582, 15.6478, 29.1676.

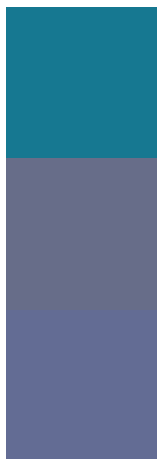


This preview shows how white text looks on a background with the XYZ color 12.1582, 15.6478,

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

12.1582, 15.6478, 29.1676

Protanopia

15.5775, 15.6270, 25.8622

Deuteranopia

15.8534, 15.5159, 30.1763



Tritanopia

11.1244, 15.5850, 24.2517

Trichromacy



Original Color

12.1582, 15.6478, 29.1676

Protanomaly

13.4628, 15.1596, 27.0275

Deuteranomaly

13.6592, 15.0345, 29.7858

Tritanomaly

11.4529, 15.5325, 26.0614

Monochromacy



Original Color

12.1582, 15.6478, 29.1676

Achromatopsia

10.6392, 11.1932, 12.1894

Achromatomaly

10.2148, 12.1217, 17.4241

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1582, 15.6478, 29.1676 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(22, 120, 145)` looks like.

```
.text, #text, p{  
    color:rgb(22, 120, 145)  
}
```

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(22, 120, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 120, 145) }
```

Border

The CSS property to change the border of an element to XYZ 12.1582, 15.6478, 29.1676 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(22, 120, 145) }
```


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

```
.border{ border-color:rgb(22, 120, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 120, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 120, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 120, 145);  
box-shadow:4px 4px 4px 4px rgb(22, 120,  
145) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1582, 15.6478, 29.1676 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 120, 145) }
```

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

```
.background{ background-color: rgb(22, 120,  
145) }
```

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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