

Converting Colors

XYZ(12.8210, 10.0305, 23.2737)

Have a look what the booklet for
XYZ(12.8210, 10.0305, 23.2737)
contains.

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Color

**XYZ(12.8314, 10.0654,
23.4568)**

Conversions

Conversions Part 1

Format	Color
Hex	6A4D85
RGB	106, 77, 133
RGB Percent	42%, 30%, 52%
CMY	0.5843, 0.6980, 0.4784
CMYK	0.20, 0.42, 0.00, 0.48
HSL	271°, 27%, 41%
HSV	271°, 42%, 52%
XYZ	12.8314, 10.0654, 23.4568
YIQ	92.0550, -0.6920, 23.5640

Conversions

Conversions Part 2

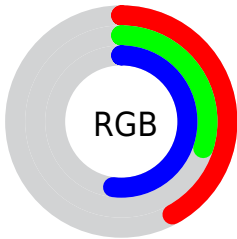
Format	Color
R_{YB}	106, 77, 133
Decimal	6966661
CIE _{Lab}	37.96, 23.91, -26.86
CIE _{LCh}	38, 35.963, 311.677
Yxy	10.0654, 0.2768, 0.2171
Android (android.graphics.Color)	4285156741 (0xFF6A4D85)
YUV	92.0550, 20.1859, 12.2298
Hunter-Lab	31.7260, 16.6727, -21.6282

Details

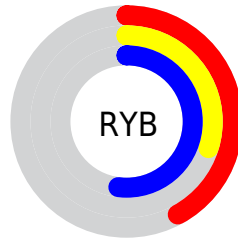
The XYZ color **12.8314, 10.0654, 23.4568** is a dark color, and the websafe version is hex **663366**. A complement of this color would be **15.4362, 20.2541, 10.1175**, and the grayscale version is **10.1408, 10.6689, 11.6184**.

A 20% lighter version of the original color is **30.5528, 25.9930, 49.8612**, and **3.7652, 2.5274, 8.4730** is the 20% darker color. If you saturate the color by 10%, you get **11.2605, 8.0127, 23.1436**, and if you desaturate by 10%, it is **14.6503, 12.5289, 23.8366**.

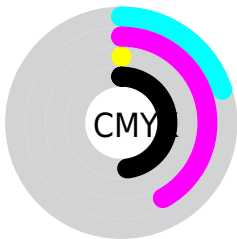
Distribution



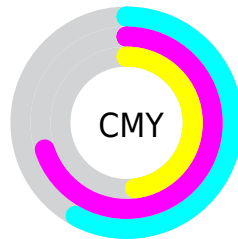
- Red (42%)
- Green (30%)
- Blue (52%)



- Red (42%)
- Yellow (30%)
- Blue (52%)



- Cyan (20%)
- Magenta (42%)
- Yellow (0%)
- Black (48%)



- Cyan (58%)
- Magenta (70%)
- Yellow (48%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8314, 10.0654, 23.4568 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 12.8314, 10.0654, 23.4568 by changing the saturation by 10% instead.

■ 12.8314, 10.0654,
23.4568

■ 12.8314, 10.0654,
23.4568

203.4938,
191.1382, 283.2602

■ 7.3887, 5.4423,
14.7227

■ 30.6045, 25.9184,
50.0750

■ 3.7549, 2.5091,
8.4806

■ 43.6656, 37.9172,
68.7961

■ 1.5644, 0.8812,
4.3118

■ 59.9969, 53.1433,
91.6834

■ 0.3690, 0.0000,
1.7979

■ 79.9637, 71.9812,
119.1553

■ 0.0000, 0.0000,
0.4266

■ 103.9315, 94.8153,
151.6304

■ 0.0000, 0.0000,
0.0000

132.2655,

122.0298, 189.5272

165.3312,
154.0094, 233.2643

■ 12.8314, 10.0654,
23.4568

■ 12.8314, 10.0654,
23.4568

■ 11.2605, 8.0127,
23.1436

■ 14.6503, 12.5289,
23.8366

■ 9.9237, 6.3456,
22.8922

■ 16.7280, 15.4239,
24.2859

■ 8.8069, 5.0379,
22.6987

■ 19.0760, 18.7713,
24.8082

■ 7.8943, 4.0594,
22.5579

■ 21.7045, 22.5901,
25.4068

■ 7.1671, 3.3750,
22.4641

■ 24.6235, 26.8983,
26.0845

6.6791, 2.9542,
22.4086

27.8422, 31.7129,
26.8442

31.3694, 37.0500,
27.6885

35.2137, 42.9251,
28.6199

39.3832, 49.3531,
29.6408

Harmonies

Analogous

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



10.4934, 10.0654, 28.7120



12.8314, 10.0654, 23.4568



14.4282, 10.0654, 15.4603

Triad

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



12.8314, 10.0654, 23.4568



11.0309, 10.0654, 2.7803



5.8458, 10.0654, 13.7382

Complementary

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



12.8314, 10.0654, 23.4568



15.4362, 20.2541, 10.1175

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.



5.9422, 10.0654, 7.4298



12.8314, 10.0654, 23.4568



8.6965, 10.0654, 2.6303

Square

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



12.8314, 10.0654, 23.4568



13.2790, 10.0654, 4.4947



6.9091, 10.0654, 3.9438



6.6203, 10.0654, 21.7685

Rectangle

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



12.8314, 10.0654, 23.4568



14.7236, 10.0654, 10.5919



6.9091, 10.0654, 3.9438



5.7813, 10.0654, 11.3356

Sweetspot

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



12.8318, 10.0658, 23.4570



33.6339, 32.8574, 44.3078



12.2516, 13.1857, 24.0898



7.3886, 7.1317, 9.9398



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.



12.8318, 10.0658, 23.4570



20.1508, 14.3307, 41.4424



16.4964, 11.9624, 23.2934



4.6474, 4.6543, 5.8542



6.3713, 2.8187, 21.3449



0.0305, 0.0141, 0.0743

Inverse Universe

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



14.8257, 11.2941, 14.4955



24.4382, 16.9696, 22.2728



12.8212, 18.9022, 10.1684



4.7591, 4.7233, 5.3440



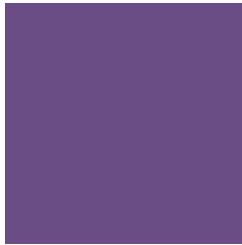
10.1025, 5.1053, 5.1120



0.0387, 0.0191, 0.0370

Previews

White Background



This preview shows how the XYZ color 12.8314, 10.0654, 23.4568 looks on a white background.

Color Contrast Check

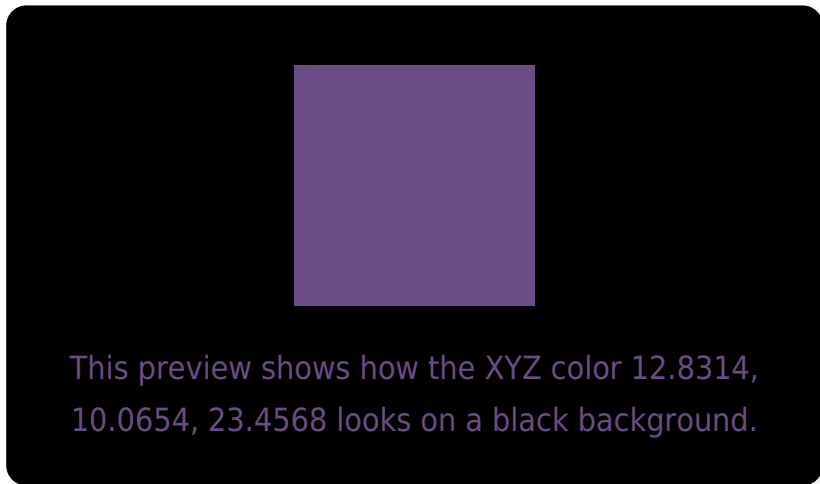
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



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 12.8314, 10.0654, 23.4568

Background



This preview shows how black text looks on a background with the XYZ color 12.8314, 10.0654, 23.4568.



This preview shows how white text looks on a background with the XYZ color 12.8314, 10.0654,

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

12.8314, 10.0654, 23.4568

Protanopia

10.8265, 10.1977, 26.9889

Deuteranopia

10.4168, 10.1999, 22.8925



Tritanopia

10.4492, 10.0985, 11.7544

Trichromacy



Original Color

12.8314, 10.0654, 23.4568

Protanomaly

11.3102, 9.9986, 25.7599

Deuteranomaly

11.1597, 10.0942, 23.1900

Tritanomaly

11.2795, 10.0940, 15.5412

Monochromacy



Original Color

12.8314, 10.0654, 23.4568

Achromatopsia

10.1725, 10.7023, 11.6548

Achromatomaly

10.9918, 10.4193, 15.3417

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8314, 10.0654, 23.4568 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(106, 77, 133)` looks like.

```
.text, #text, p{  
    color:rgb(106, 77, 133)  
}
```

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(106, 77, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(106, 77, 133) }
```

Border

The CSS property to change the border of an element to XYZ 12.8314, 10.0654, 23.4568 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(106, 77, 133) }
```


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

```
.border{ border-color:rgb(106, 77, 133) }
```

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

Here you see how a box with a 4 pixel rgb(106, 77, 133) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(106, 77, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(106, 77, 133);  
box-shadow:4px 4px 4px 4px rgb(106, 77,  
133) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8314, 10.0654, 23.4568 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(106, 77, 133) }
```

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

```
.background{ background-color: rgb(106, 77,  
133) }
```

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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