Converting Colors

RGBPercent(50%, 25%, 50%)
Have a look what the booklet for RGBPercent(50%, 25%, 50%) contains.

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Color

RGBPercent(50%, 25%, 50%)
# Conversions

## Conversions Part 1

<table>
<thead>
<tr>
<th>Format</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex</td>
<td>804080</td>
</tr>
<tr>
<td>RGB</td>
<td>128, 64, 128</td>
</tr>
<tr>
<td>RGB Percent</td>
<td>50%, 25%, 50%</td>
</tr>
<tr>
<td>CMY</td>
<td>0.5000, 0.7500, 0.5000</td>
</tr>
<tr>
<td>CMYK</td>
<td>0.00, 0.50, 0.00, 0.50</td>
</tr>
<tr>
<td>HSL</td>
<td>300°, 33%, 38%</td>
</tr>
<tr>
<td>HSV</td>
<td>300°, 50%, 50%</td>
</tr>
<tr>
<td>XYZ</td>
<td>14.5098, 9.7345, 21.3642</td>
</tr>
</tbody>
</table>
# Conversions

## Conversions Part 2

<table>
<thead>
<tr>
<th>Format</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>RYB</td>
<td>128, 64, 128</td>
</tr>
<tr>
<td>Decimal</td>
<td>8405120</td>
</tr>
<tr>
<td>CIELab</td>
<td>37.36, 37.22, -24.21</td>
</tr>
<tr>
<td>CIELCh</td>
<td>37, 44.402, 326.951</td>
</tr>
<tr>
<td>Yxy</td>
<td>9.7345, 0.3181, 0.2134</td>
</tr>
<tr>
<td>Android (Color)</td>
<td>4286595200 (0xFF804080)</td>
</tr>
<tr>
<td>YUV</td>
<td>90.4320, 18.5210, 32.9471</td>
</tr>
</tbody>
</table>
The RGBPercent color 50%, 25%, 50% is a dark color, and the websafe version is hex 663366. A complement of this color would be 25%, 50%, 25%, and the grayscale version is 35%, 35%, 35%.

A 20% lighter version of the original color is 71%, 45%, 71%, and 30%, 5%, 31% is the 20% darker color. If you saturate the color by 10%, you get 50%, 20%, 50%, and if you desaturate by 10%, it is 50%, 30%, 50%.
Distribution

RGB
- Red (50%)
- Green (25%)
- Blue (50%)

RYB
- Red (50%)
- Yellow (25%)
- Blue (50%)

CMY
- Cyan (0%)
- Magenta (50%)
- Yellow (0%)
- Black (50%)

CMY
- Cyan (50%)
- Magenta (75%)
- Yellow (50%)
Brightness & Saturation Gradients

These gradients show how the RGBPercent color 50%, 25%, 50% 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 RGBPercent color 50%, 25%, 50% by changing the saturation by 10% instead.
<table>
<thead>
<tr>
<th>Percentage配色方案</th>
<th>50%, 25%, 50%</th>
<th>50%, 25%, 50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>60%, 35%, 60%</td>
<td>50%, 25%, 50%</td>
<td>40%, 15%, 40%</td>
</tr>
<tr>
<td>71%, 45%, 71%</td>
<td>50%, 25%, 50%</td>
<td>30%, 5%, 31%</td>
</tr>
<tr>
<td>82%, 55%, 82%</td>
<td>50%, 25%, 50%</td>
<td>20%, 0%, 22%</td>
</tr>
<tr>
<td>94%, 65%, 93%</td>
<td>50%, 25%, 50%</td>
<td>12%, 0%, 13%</td>
</tr>
<tr>
<td>100%, 76%, 100%</td>
<td>50%, 25%, 50%</td>
<td>0%, 0%, 2%</td>
</tr>
<tr>
<td>100%, 87%, 100%</td>
<td>50%, 25%, 50%</td>
<td>0%, 0%, 0%</td>
</tr>
<tr>
<td>100%, 99%, 100%</td>
<td>50%, 25%, 50%</td>
<td>0%, 0%, 0%</td>
</tr>
<tr>
<td>100%, 100%, 100%</td>
<td>50%, 25%, 50%</td>
<td>0%, 0%, 0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Percentage配色方案</th>
<th>50%, 25%, 50%</th>
<th>50%, 25%, 50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%, 20%, 50%</td>
<td>50%, 25%, 50%</td>
<td>50%, 30%, 50%</td>
</tr>
<tr>
<td>50%, 15%, 50%</td>
<td>50%, 25%, 50%</td>
<td>50%, 35%, 50%</td>
</tr>
<tr>
<td>50%, 10%, 50%</td>
<td>50%, 25%, 50%</td>
<td>50%, 40%, 50%</td>
</tr>
<tr>
<td>50%, 5%, 50%</td>
<td>50%, 25%, 50%</td>
<td>50%, 45%, 50%</td>
</tr>
<tr>
<td>50%, 0%, 50%</td>
<td>50%, 25%, 50%</td>
<td>50%, 50%, 50%</td>
</tr>
<tr>
<td>50%, 55%, 50%</td>
<td>50%, 25%, 50%</td>
<td>50%, 55%, 50%</td>
</tr>
</tbody>
</table>
- 50%, 60%, 50%
- 50%, 65%, 50%
- 50%, 70%, 50%
Harmonies

Analogous

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

- 32%, 31%, 60%
- 50%, 25%, 50%
- 58%, 21%, 36%
**Triad**

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

- 50%, 25%, 50%
- 43%, 33%, 1%
- 0%, 41%, 47%
Complementary

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

50%, 25%, 50%

25%, 50%, 25%
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.

- 0%, 41%, 33%
- 50%, 25%, 50%
- 29%, 37%, 6%
Square

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

- 50%, 25%, 50%
- 53%, 28%, 11%
- 7%, 40%, 18%
- 0%, 40%, 58%
Rectangle

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

- 50%, 25%, 50%
- 60%, 21%, 27%
- 7%, 40%, 18%
- 0%, 41%, 42%
Sweetspot

The sweet spot groups the original color and five complimentary colors.

- 50%, 25%, 50%
- 65%, 55%, 65%
- 25%, 25%, 50%
- 33%, 27%, 33%
- 83%, 83%, 83%
- 33%, 33%, 33%
White Background

This preview shows how the RGBPercent color 50%, 25%, 50% 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

This preview shows how the RGBPercent color 50%, 25%, 50% looks on a 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.
RGBPercent 50%, 25%, 50%

Background

This preview shows how black text looks on a background with the RGBPercent color 50%, 25%, 50%.

This preview shows how white text looks on a background with the RGBPercent color 50%, 25%, 50%.
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**
- 50%, 25%, 50%

**Protanopia**
- 25%, 34%, 58%

**Deuteranopia**
- 30%, 34%, 48%
Tritanopia
48%, 29%, 32%
**Trichromacy**

- **Original Color**
  - 50%, 25%, 50%

- **Protanomaly**
  - 34%, 31%, 55%

- **Deuteranomaly**
  - 37%, 31%, 49%

- **Tritanomaly**
  - 49%, 28%, 38%

**Monochromacy**

- **Original Color**
  - 50%, 25%, 50%

- **Achromatopsia**
  - 35%, 35%, 35%

- **Achromatomaly**
  - 41%, 31%, 41%
CSS Examples

Text

The CSS property to change the color of the text to RGBPercent 50%, 25%, 50% 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(50%, 25%, 50%) looks like.

.text, #text, p{
  color:rgb(50%, 25%, 50%)
}

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(50%, 25%, 50%) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50%, 25%, 50%) }
```

**Border**

The CSS property to change the border of an element to RGBPercent 50%, 25%, 50% is called "border". The border property can be set on classes, ids or directly on the HTML element.

```
.border, #border, table{ border:4px solid rgb(50%, 25%, 50%) }
```
If only the border color should be changed use the property border-color.

\[
\text{.border\{ border-color:rgb(50\%, 25\%, 50\%) \} }
\]

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

Here you see how a box with a 4 pixel rgb(50\%, 25\%, 50\%) colored shadow looks like.

\[
\text{.boxshadow\{ -moz-box-shadow:4px 4px 4px 4px rgb(50\%, 25\%, 50\%); -webkit-box-shadow:4px 4px 4px 4px rgb(50\%, 25\%, 50\%); box-shadow:4px 4px 4px 4px rgb(50\%, 25\%, 50\%) \} }
\]
Background

The CSS property to change the background color of an element to RGBPercent 50%, 25%, 50% is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{
  background:rgb(50%, 25%, 50%)
}
```

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

```
.background{ background-color:rgb(50%, 25%, 50%)
}
```

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.
Hey! You found this booklet interesting? Have a look at my other booklet HOWCOLORS.WORK - A CSS color notation guide.

HOWCOLORS.WORK
A CSS color notation guide.
Are you new to web development and want to know the different ways to express colors in CSS? Then this booklet is for you!

HOWCOLORS.WORK will help you understand the syntax of the color notations in CSS. You will learn all the current and new ways to express colors to prepare yourself for the future!

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