



链滴

# shell 脚本输出带颜色内容

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<p><br>  
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og.csdn.net/david\_dai\_1108/article/details/70478826</a></p>

<p>shell 脚本中 echo 和 printf 都可以输出内容。我们看以下示例</p>  
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">echo -e "\033[43;35m david use echo say Hello World \033[0m \n"  
</span></span><span class="highlight-line"><span class="highlight-cl">printf "\033[44;3  
m david use printf say Hello World \033[0m \n"  
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[47;  
0;5m david use echo say \033[0m Hello World \n"  
</span></span></code></pre>

<p>输出如下: <br>  
</p>

<p>它的格式是这样的:</p>  
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">echo -e "\033[字背景颜色;字体颜色m 字符串 \033[0m" 或者  
</span></span><span class="highlight-line"><span class="highlight-cl">printf "\033[字背  
颜色;字体颜色m 字符串 \033[0m" 或者  
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[字  
景颜色;字体颜色m;ascii码m 字符串 \033[0m 字符串(can null) \n"  
</span></span></code></pre>

<h4 id="原理">原理</h4>

<p>这里以一个例子来说明: </p>  
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">echo -e "\033[47;30;5m david use echo say \033[0m Hello World \n"  
</span></span></code></pre>

<blockquote>  
<p>作用: 42-&gt; 背景色为白色, <br>  
30-&gt; 字体为黑色, <br>  
5-&gt; 字体闪烁, <br>  
0-&gt; 关闭所有属性 输出字符 "david use echo say", 然后重新设置屏幕到缺省设置, 输出字符  
Hello World" 后颜色回复正常</p>

</blockquote>  
<p>-e 是 echo 的一个可选项, 用于激活特殊字符的解析器, 也就是对反斜线转义符 (即\ ) 的解释。\  
33 引导非常规字符序列。意味着设置属性然后结束非常规字符序列, 这里起效果的字符是 47;30;5 和  
。修改 47;30;5 可以生成不同颜色的组合, 数值和编码的前后顺序没有关系。</p>

<p>组合命令: </p>  
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">echo -e "\033[20;1H\033[1;4;32m david use echo say \033[0m Hello World \n"  
</span></span><span class="highlight-line"><span class="highlight-cl">  
</span></span></code></pre>

<p>这行命令首先\033[20;1H 将光标移动到终端第 20 行第 1 列, 之后的\033[1;4;32m 将文本属性  
置为高亮、带下划线且颜色为绿色, 然后输出 Hello,world; 最后\033[0m 将终端属性设为缺省, 这  
就不会看到连命令完成后的命令提示符也变了样儿了。</p>

<p>我们可以通过各种命令的组合可以实现对终端输出地复杂控制。</p>

<h4 id="范围">范围</h4>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">0 重新设置属性到缺省设置  
</span></span><span class="highlight-line"><span class="highlight-cl">1 设置粗体  
</span></span><span class="highlight-line"><span class="highlight-cl">2 设置一半亮度(模  
彩色显示器的颜色)  
</span></span><span class="highlight-line"><span class="highlight-cl">4 设置下划线(模拟

色显示器的颜色)

```
</span></span><span class="highlight-line"><span class="highlight-cl">5 设置闪烁
</span></span><span class="highlight-line"><span class="highlight-cl">7 设置反向图象
</span></span><span class="highlight-line"><span class="highlight-cl">8 消隐
</span></span><span class="highlight-line"><span class="highlight-cl">22 设置一般密度
</span></span><span class="highlight-line"><span class="highlight-cl">24 关闭下划线
</span></span><span class="highlight-line"><span class="highlight-cl">25 关闭闪烁
</span></span><span class="highlight-line"><span class="highlight-cl">27 关闭反向图象
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">// 字体颜色范围(前
颜色):30~39
</span></span><span class="highlight-line"><span class="highlight-cl">30:黑
</span></span><span class="highlight-line"><span class="highlight-cl">31:红
</span></span><span class="highlight-line"><span class="highlight-cl">32:绿
</span></span><span class="highlight-line"><span class="highlight-cl">33:黄
</span></span><span class="highlight-line"><span class="highlight-cl">34:蓝色
</span></span><span class="highlight-line"><span class="highlight-cl">35:紫色
</span></span><span class="highlight-line"><span class="highlight-cl">36:深绿
</span></span><span class="highlight-line"><span class="highlight-cl">37:白色
</span></span><span class="highlight-line"><span class="highlight-cl">38:在缺省的前景
色上设置下划线
</span></span><span class="highlight-line"><span class="highlight-cl">39:在缺省的前景
色上关闭下划线
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">// 字背景颜色范围
背景颜色):40~49
</span></span><span class="highlight-line"><span class="highlight-cl">40:黑
</span></span><span class="highlight-line"><span class="highlight-cl">41:深红
</span></span><span class="highlight-line"><span class="highlight-cl">42:绿
</span></span><span class="highlight-line"><span class="highlight-cl">43:黄色
</span></span><span class="highlight-line"><span class="highlight-cl">44:蓝色
</span></span><span class="highlight-line"><span class="highlight-cl">45:紫色
</span></span><span class="highlight-line"><span class="highlight-cl">46:深绿
</span></span><span class="highlight-line"><span class="highlight-cl">47:白色
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">nA 光标上移n行
</span></span><span class="highlight-line"><span class="highlight-cl">nB 光标下移n行
</span></span><span class="highlight-line"><span class="highlight-cl">nC 光标右移n行
</span></span><span class="highlight-line"><span class="highlight-cl">nD 光标左移n行
</span></span><span class="highlight-line"><span class="highlight-cl">y;xH设置光标位置
</span></span><span class="highlight-line"><span class="highlight-cl">2J 清屏
</span></span><span class="highlight-line"><span class="highlight-cl">K 清除从光标到行
的内容
</span></span><span class="highlight-line"><span class="highlight-cl">s 保存光标位置
</span></span><span class="highlight-line"><span class="highlight-cl">u 恢复光标位置
</span></span><span class="highlight-line"><span class="highlight-cl">?25I 隐藏光标
</span></span><span class="highlight-line"><span class="highlight-cl">?25h 显示光标
</span></span></code></pre>
<p>一些颜色</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0m none \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[30m
black \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[1;3
```

```
m dark_gray \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0;3
m blue \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[1;3
m light_blue \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0;3
m green \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[1;3
m light_green \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0;3
m cyan \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[1;3
m light_cyan \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0;3
m red \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[1;3
m light_red \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0;3
m purple \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[1;3
m light_purple \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0;3
m brown \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[1;3
m yellow \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0;3
m light_gray \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[1;3
m white \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0m
none \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0m
none \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0m
none \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0m
none \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[0m
none \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[40;
7m 黑底白字 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[41;
0m 红底黑字 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[42;
4m 绿底蓝字 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[43;
4m 黄底蓝字 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[44;
0m 蓝底黑字 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[45;
0m 紫底黑字 \033[0m"
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[46;0m 天蓝底黑字 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[47;4m 白底蓝字 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[4;3m 下划线红字 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[5;3m 红字在闪烁 \033[0m"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "\033[8m 消隐 \033[0m "
</span></span></code></pre>
```

<p>效果图如下:<br>

</p>

<h4 id="扩展">扩展</h4>

<ol>

<li>预先定义颜色变量</li>

</ol>

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">RED_COLOR='\E[1;31m'
</span></span><span class="highlight-line"><span class="highlight-cl">YELLOW_COLOR='\E[1;33m'
</span></span><span class="highlight-line"><span class="highlight-cl">BLUE_COLOR='\E[;34m'
</span></span><span class="highlight-line"><span class="highlight-cl">RESET='\E[0m'
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">#需要使用echo -e
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "${RED_OLOR}===david say red color===${RESET}"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "${YELLOW_COLOR}===david say yelow color===${RESET}"
</span></span><span class="highlight-line"><span class="highlight-cl">echo -e "${BLUE_OLOR}===david say green color===${RESET}"
</span></span></code></pre>
```

<p>效果图如下:<br>

</p>