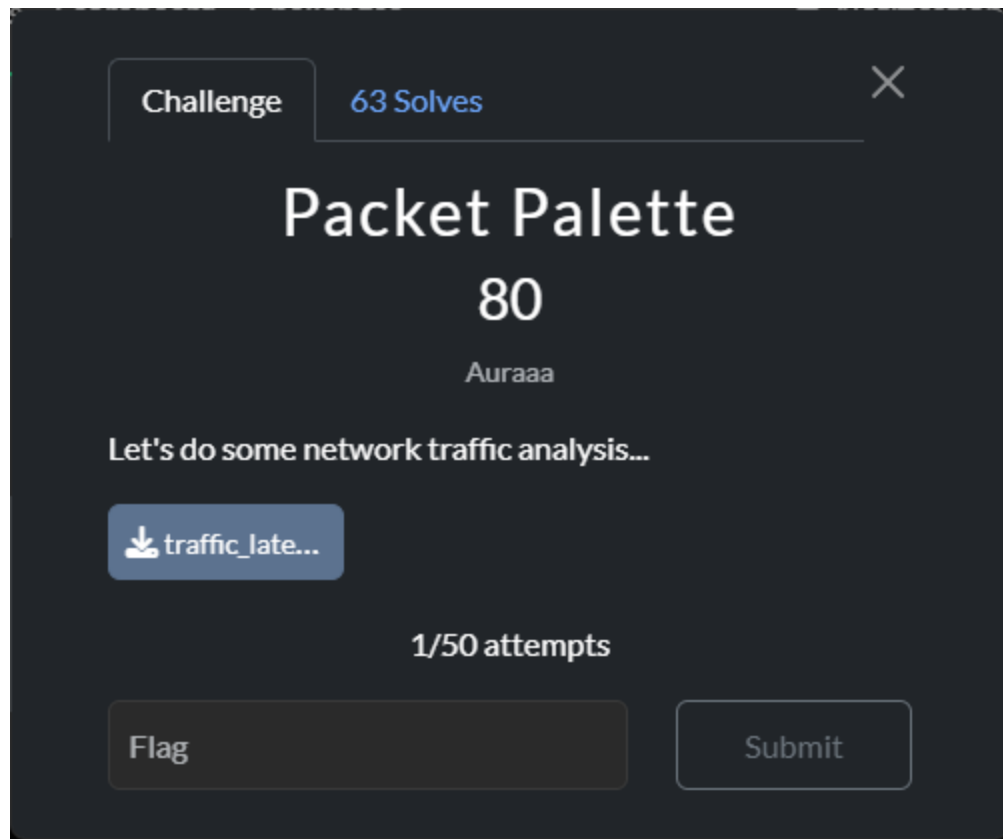


Packet Palette

Types	misc
CTF	SunCTF



given file is in pcap file

Step 1 — Quick reconnaissance

```
(kali@kali)-[~/Desktop/sun/misc]
$ capinfos traffic_latest.pcapng

File name:          traffic_latest.pcapng
File type:          Wireshark/... - pcapng
File encapsulation: Ethernet
File timestamp precision: nanoseconds (9)
Packet size limit:  file hdr: (not set)
Number of packets:  67
File size:          230 kB
Data size:          227 kB
Capture duration:   0.037537037 seconds
Earliest packet time: 2025-08-29 23:18:06.508702928
Latest packet time:  2025-08-29 23:18:06.546239965
Data byte rate:     6,061 kbps
Data bit rate:      48 Mbps
Average packet size: 3395.82 bytes
Average packet rate: 1,784 packets/s
SHA256:             192e53424bd3349c2180c0841892c45ca44e6bf4acd5d32aa9d3a6272b0f6981
SHA1:               e19b4ca268da42b9372700dc111795ac9b8f44d3
Strict time order:  True
Capture hardware:   11th Gen Intel(R) Core(TM) i7-1165G7 @ 2.80GHz (with SSE4.2)
Capture oper-sys:   Linux 6.6.87.2-microsoft-standard-WSL2
Capture application: Dumpcap (Wireshark) 4.4.7
Number of interfaces in file: 1
Interface #0 info:
    Name = eth0
    Encapsulation = Ethernet (1 - ether)
    Capture length = 262144
    Time precision = nanoseconds (9)
    Time ticks per second = 1000000000
    Time resolution = 0x09
    Operating system = Linux 6.6.87.2-microsoft-standard-WSL2
    Number of stat entries = 1
    Number of packets = 67
```

capinfos traffic_latest.pcapng
basic metadata (packets, duration, file size)

```
(kali@kali)-[~/Desktop/sun/misc]
$ tshark -r traffic_latest.pcapng -q -z conv,tcp

TCP Conversations
Filter:<No Filter>

| Frames | Bytes | | Frames | Bytes | | Total | Relative | Duration |
|-----|-----| |-----|-----| |-----|-----|-----|
172.18.241.1:50756 ↔ 172.18.240.1:5000 | 20 220 kB | 23 1,616 bytes | 43 222 kB | 0.000000000 | 0.0069
172.18.241.1:50770 ↔ 172.18.240.1:5000 | 5 545 bytes | 7 559 bytes | 12 1,104 bytes | 0.014870621 | 0.0064
172.18.241.1:50778 ↔ 172.18.240.1:5000 | 5 3,662 bytes | 7 551 bytes | 12 4,213 bytes | 0.030601134 | 0.0069
```

list TCP conversations to see large transfers
tshark -r traffic_latest.pcapng -q -z conv,tcp

```
(kali@kali)-[~/Desktop/sun/misc]
$ tshark -r traffic_latest.pcapng -Y "http.request" -T fields -e frame.number -e ip.src -e http.host -e http.request.method -e http.request.uri

4      172.18.241.1      172.18.240.1:5000      GET      /image.jpg
47     172.18.241.1      172.18.240.1:5000      GET      /dummy.js
59     172.18.241.1      172.18.240.1:5000      GET      /
```

list HTTP requests (frames with GETs)
tshark -r traffic_latest.pcapng -Y "http.request" -T fields -e frame.number -e i

```
p.src -e http.host -e http.request.method -e http.request.uri
```

Why: this shows which resources were fetched. In this capture there were three HTTP requests: `/image.jpg`, `/dummy.js`, and `/` (the HTML page).

Screenshot tip: capture the terminal showing the `tshark ... http.request` output (this proves we found the interesting resources).

Step 2 — Export HTTP objects

```
(kali@kali)~[~/Desktop/sun/misc]
$ tshark -r traffic_latest.pcapng --export-objects "http,http,objs"

1 0.000000000 172.18.241.1 → 172.18.240.1 TCP 74 50756 → 5000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM TSval=3971756145 TSecr=0 WS=128
2 0.000377879 172.18.240.1 → 172.18.241.1 TCP 74 5000 → 50756 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM TSval=14009197 TSecr=3971756145
3 0.000463558 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3971756146 TSecr=14009197
4 0.000512299 172.18.241.1 → 172.18.240.1 HTTP 156 GET /image.jpg HTTP/1.1
5 0.003603496 172.18.240.1 → 172.18.241.1 TCP 431 HTTP/1.1 200 OK
6 0.003603541 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=366 Ack=91 Win=65280 Len=8192 TSval=14009200 TSecr=3971756146
7 0.003603559 172.18.240.1 → 172.18.241.1 TCP 5858 5000 → 50756 [ACK] Seq=8558 Ack=91 Win=65280 Len=5792 TSval=14009200 TSecr=3971756146
8 0.003637819 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=366 Win=64128 Len=0 TSval=3971756149 TSecr=14009200
9 0.003642858 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=8558 Win=55936 Len=0 TSval=3971756149 TSecr=14009200
10 0.003645643 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=14350 Win=75776 Len=0 TSval=3971756149 TSecr=14009200
11 0.003836971 172.18.240.1 → 172.18.241.1 TCP 27578 5000 → 50756 [PSH, ACK] Seq=14350 Ack=91 Win=65280 Len=27512 TSval=14009201 TSecr=3971756149
12 0.003843954 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=41862 Win=81664 Len=0 TSval=3971756149 TSecr=14009201
13 0.004022861 172.18.240.1 → 172.18.241.1 TCP 39162 5000 → 50756 [PSH, ACK] Seq=41862 Ack=91 Win=65280 Len=39096 TSval=14009201 TSecr=3971756149
14 0.004028999 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=80958 Win=159872 Len=0 TSval=3971756149 TSecr=14009201
15 0.004320005 172.18.240.1 → 172.18.241.1 TCP 25970 5000 → 50756 [PSH, ACK] Seq=80958 Ack=91 Win=65280 Len=25904 TSval=14009201 TSecr=3971756149
16 0.004320092 172.18.240.1 → 172.18.241.1 TCP 16450 5000 → 50756 [PSH, ACK] Seq=106862 Ack=91 Win=65280 Len=16384 TSval=14009201 TSecr=3971756149
17 0.004320114 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=123246 Ack=91 Win=65280 Len=8192 TSval=14009201 TSecr=3971756149
18 0.004320134 172.18.240.1 → 172.18.241.1 TCP 1514 5000 → 50756 [ACK] Seq=131438 Ack=91 Win=65280 Len=1448 TSval=14009201 TSecr=3971756149
19 0.004341542 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=106862 Win=211712 Len=0 TSval=3971756150 TSecr=14009201
20 0.004347209 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=123246 Win=244480 Len=0 TSval=3971756150 TSecr=14009201
21 0.004352500 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=131438 Win=260864 Len=0 TSval=3971756150 TSecr=14009201
22 0.004355258 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=132886 Win=263808 Len=0 TSval=3971756150 TSecr=14009201
23 0.004650218 172.18.240.1 → 172.18.241.1 TCP 23194 5000 → 50756 [PSH, ACK] Seq=132886 Ack=91 Win=65280 Len=23128 TSval=14009201 TSecr=3971756150
24 0.004650304 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=156014 Ack=91 Win=65280 Len=8192 TSval=14009201 TSecr=3971756150
25 0.004660788 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=156014 Win=310144 Len=0 TSval=3971756150 TSecr=14009201
26 0.004664600 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=164206 Win=306304 Len=0 TSval=3971756150 TSecr=14009201
27 0.004745614 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=164206 Ack=91 Win=65280 Len=8192 TSval=14009201 TSecr=3971756150
28 0.004745666 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=172398 Ack=91 Win=65280 Len=8192 TSval=14009201 TSecr=3971756150
29 0.004745696 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=180590 Ack=91 Win=65280 Len=8192 TSval=14009201 TSecr=3971756150
30 0.004752356 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=172398 Win=314368 Len=0 TSval=3971756150 TSecr=14009201
31 0.004754624 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=180590 Win=306176 Len=0 TSval=3971756150 TSecr=14009201
32 0.004756270 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=188782 Win=297984 Len=0 TSval=3971756150 TSecr=14009201
33 0.004760411 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=188782 Ack=91 Win=65280 Len=8192 TSval=14009201 TSecr=3971756150
34 0.004762019 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=196974 Win=289792 Len=0 TSval=3971756150 TSecr=14009201
```

```
35 0.004832675 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=196974 Ack=91 Win=65280 Len=8192 TSval=14009202 TSecr=3971756150
36 0.004836370 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=205166 Win=314368 Len=0 TSval=3971756150 TSecr=14009202
37 0.004839926 172.18.240.1 → 172.18.241.1 TCP 8258 5000 → 50756 [PSH, ACK] Seq=205166 Ack=91 Win=65280 Len=8192 TSval=14009202 TSecr=3971756150
38 0.004841477 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=213358 Win=306176 Len=0 TSval=3971756150 TSecr=14009202
39 0.004917878 172.18.240.1 → 172.18.241.1 HTTP 5968 HTTP/1.1 200 OK (JPEG JFIF image)
40 0.004981125 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=91 Ack=219260 Win=326144 Len=0 TSval=3971756150 TSecr=14009202
41 0.005137548 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [FIN, ACK] Seq=91 Ack=219260 Win=326144 Len=0 TSval=3971756151 TSecr=14009202
42 0.006846331 172.18.240.1 → 172.18.241.1 TCP 66 5000 → 50756 [FIN, ACK] Seq=219260 Ack=92 Win=65280 Len=0 TSval=14009203 TSecr=3971756151
43 0.006863703 172.18.241.1 → 172.18.240.1 TCP 66 50756 → 5000 [ACK] Seq=92 Ack=219261 Win=326144 Len=0 TSval=3971756152 TSecr=14009203
44 0.014870621 172.18.241.1 → 172.18.240.1 TCP 74 50770 → 5000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM TSval=3971756160 TSecr=0 WS=128
45 0.015425046 172.18.240.1 → 172.18.241.1 TCP 74 5000 → 50770 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM TSval=14009212 TSecr=3971756160
46 0.015475362 172.18.241.1 → 172.18.240.1 TCP 66 50770 → 5000 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3971756161 TSecr=14009212
47 0.015625251 172.18.241.1 → 172.18.240.1 HTTP 155 GET /dummy.js HTTP/1.1
48 0.018921513 172.18.240.1 → 172.18.241.1 TCP 237 HTTP/1.1 200 OK
49 0.018660078 172.18.241.1 → 172.18.240.1 TCP 66 50770 → 5000 [ACK] Seq=90 Ack=172 Win=64128 Len=0 TSval=3971756164 TSecr=14009215
50 0.019860176 172.18.240.1 → 172.18.241.1 HTTP 102 HTTP/1.1 200 OK (application/javascript)
51 0.019892913 172.18.241.1 → 172.18.240.1 TCP 66 50770 → 5000 [ACK] Seq=90 Ack=208 Win=64128 Len=0 TSval=3971756164 TSecr=14009216
52 0.019481081 172.18.241.1 → 172.18.240.1 TCP 66 50770 → 5000 [FIN, ACK] Seq=90 Ack=208 Win=64128 Len=0 TSval=3971756165 TSecr=14009216
53 0.019724052 172.18.240.1 → 172.18.241.1 TCP 66 5000 → 50770 [ACK] Seq=208 Ack=91 Win=65280 Len=0 TSval=14009216 TSecr=3971756165
54 0.021236334 172.18.240.1 → 172.18.241.1 TCP 66 5000 → 50770 [FIN, ACK] Seq=208 Ack=91 Win=65280 Len=0 TSval=14009218 TSecr=3971756165
55 0.021279540 172.18.241.1 → 172.18.240.1 TCP 66 50770 → 5000 [ACK] Seq=91 Ack=209 Win=64128 Len=0 TSval=3971756166 TSecr=14009218
56 0.030601134 172.18.241.1 → 172.18.240.1 TCP 74 50778 → 5000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM TSval=3971756176 TSecr=0 WS=128
57 0.031346453 172.18.240.1 → 172.18.241.1 TCP 74 5000 → 50778 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM TSval=14009228 TSecr=3971756176
58 0.031448380 172.18.241.1 → 172.18.240.1 TCP 66 50778 → 5000 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3971756177 TSecr=14009228
59 0.031609293 172.18.241.1 → 172.18.240.1 HTTP 147 GET / HTTP/1.1
60 0.035472368 172.18.240.1 → 172.18.241.1 TCP 241 HTTP/1.1 200 OK
61 0.035472571 172.18.240.1 → 172.18.241.1 HTTP 3215 HTTP/1.1 200 OK (text/html)
62 0.035564982 172.18.241.1 → 172.18.240.1 TCP 66 50778 → 5000 [ACK] Seq=82 Ack=176 Win=64128 Len=0 TSval=3971756181 TSecr=14009232
63 0.035570186 172.18.241.1 → 172.18.240.1 TCP 66 50778 → 5000 [ACK] Seq=82 Ack=3325 Win=70528 Len=0 TSval=3971756181 TSecr=14009232
64 0.035873274 172.18.241.1 → 172.18.240.1 TCP 66 50778 → 5000 [FIN, ACK] Seq=82 Ack=3325 Win=70528 Len=0 TSval=3971756181 TSecr=14009232
65 0.036206082 172.18.240.1 → 172.18.241.1 TCP 66 5000 → 50778 [ACK] Seq=3325 Ack=83 Win=65280 Len=0 TSval=14009233 TSecr=3971756181
66 0.037466648 172.18.240.1 → 172.18.241.1 TCP 66 5000 → 50778 [FIN, ACK] Seq=3325 Ack=83 Win=65280 Len=0 TSval=14009234 TSecr=3971756181
67 0.037537037 172.18.241.1 → 172.18.240.1 TCP 66 50778 → 5000 [ACK] Seq=83 Ack=3326 Win=70528 Len=0 TSval=3971756183 TSecr=14009234
```

```
(kali@kali)-[~/Desktop/sun/misc]
$ ls -lah http_objs
total 232K
drwxrwxr-x 2 kali kali 4.0K Sep  1 11:50 .
drwxrwxr-x 3 kali kali 4.0K Sep  1 11:50 ..
-rw-r--r-- 1 kali kali 3.1K Sep  1 11:50 %2f
-rw-r--r-- 1 kali kali 36 Sep  1 11:50 dummy.js
-rw-r--r-- 1 kali kali 214K Sep  1 11:50 image.jpg

(kali@kali)-[~/Desktop/sun/misc]
$ file http_objs/*
http_objs/%2f:      HTML document, Unicode text, UTF-8 text
http_objs/dummy.js: ASCII text, with no line terminators
http_objs/image.jpg: JPEG image data, JFIF standard 1.01, resolution (DPI), density 72x72, segment length 16, progressive, precision 8, 964x1280, components 3
```

Export all HTTP-delivered files so we can inspect them locally.

```
mkdir -p http_objs
tshark -r traffic_latest.pcapng --export-objects "http,http_objs"
ls -lah http_objs
file http_objs/*
```

Expected results: you should see three files (or similarly named): the HTML from `/` (often named `%2f`), `dummy.js`, and `image.jpg`.

Screenshot tip: take a screenshot of `ls -lah http_objs` and `file http_objs/*`.

Step 3 — Inspect the HTML & JS

```
(kali@kali)-[~/Desktop/sun/misc]
$ cat http_objs/%2f
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Ugly Colors Text</title>
  <style>
    body {
      background: #111;
      font-family: monospace;
      padding: 20px;
      color: white;
    }
    p { font-size: 18px; }
    .paragraph1 { color: #73aaee; }
    .paragraph2 { color: #75aaee; }
    .paragraph3 { color: #6eaaee; }
    .paragraph4 { color: #63aaee; }
    .paragraph5 { color: #74bb12; }
    .paragraph6 { color: #66bb12; }
    .paragraph7 { color: #32bb12; }
    .paragraph8 { color: #35bb12; }
    .paragraph9 { color: #70bb12; }
    .paragraph10 { color: #75ddaa; }
    .paragraph11 { color: #36ddaa; }
    .paragraph12 { color: #6cddaa; }
    .paragraph13 { color: #79ddaa; }
    .paragraph14 { color: #5fddaa; }
    .paragraph15 { color: #63ddff; }
    .paragraph16 { color: #35ddff; }
    .paragraph17 { color: #35ddff; }
    .paragraph18 { color: #5fddff; }
    .paragraph19 { color: #63ddff; }
    .paragraph20 { color: #30ddff; }
    .paragraph21 { color: #6cddff; }
    .paragraph22 { color: #38ddff; }
    .paragraph23 { color: #72ddff; }
    .paragraph24 { color: #35ddff; }
    .paragraph25 { color: #7dddff; }
  </style>
```

```

.paragraph21 { color: #6cddff; }
.paragraph22 { color: #30ddff; }
.paragraph23 { color: #72ddff; }
.paragraph24 { color: #35ddff; }
.paragraph25 { color: #7dddff; }
</style>
</head>
<body>
<h1>Notes on Hidden Things</h1>

<p class="paragraph1">People often miss what is right in front of them.</p>
<p class="paragraph2">Some information is obvious when you look closer.</p>
<p class="paragraph3">Others are disguised in strange ways.</p>
<p class="paragraph4">A string of text might not be written out directly.</p>
<p class="paragraph5">but it may be split into pieces and scattered around.</p>
<p class="paragraph6">Sometimes it hides in plain sight.</p>
<p class="paragraph7">sometimes it hides in the details of how something looks.</p>
<p class="paragraph8">If you notice the odd formatting, you may be onto something.</p>
<p class="paragraph9">Colors can be more than just decoration.</p>
<p class="paragraph10">They carry codes when you know how to read them.</p>
<p class="paragraph11">Hexadecimal isn't only for programmers.</p>
<p class="paragraph12">it can also spell out messages.</p>
<p class="paragraph13">It's not about the words in front of you.</p>
<p class="paragraph14">but the codes behind them.</p>
<p class="paragraph15">If you map the unusual values,</p>
<p class="paragraph16">a message slowly reveals itself.</p>
<p class="paragraph17">It may not look nice.</p>
<p class="paragraph18">but it's there for those willing to check carefully.</p>
<p class="paragraph19">The formatting is ugly, yes.</p>
<p class="paragraph20">but don't ignore what's unusual about it.</p>
<p class="paragraph21">Colors, numbers, and hex digits.</p>
<p class="paragraph22">they might be more meaningful than you think.</p>
<p class="paragraph23">Pay attention to the values that don't quite match.</p>
<p class="paragraph24">Even if they look random,</p>
<p class="paragraph25">they could be spelling something hidden.</p>
<p class="paragraph26">After all, not every code is written in plain text.</p>
<p class="paragraph27">Some of them are hidden in style.</p>

</body>
</html>

```

```

(kali@kali)-[~/Desktop/sun/misc]
$ cat http_objs/dummy.js
console.log('Nothing to see here!');

```

Open the exported HTML (the `/` resource). It often contains hints.

```

cat http_objs/%2f # or cat the filename exported for '/'
cat http_objs/dummy.js

```

What to look for:

- Comments or text mentioning "colors", "hex", "palette".
- Lots of `#RRGGBB` CSS color values.

In this challenge the HTML had many `.paragraphN { color: #RRGGBB; }` entries and text hinting that colors hide a message.

Extract all hex color values from the HTML

```
(kali@kali)-[~/Desktop/sun/misc]
$ grep -Eo "#[0-9A-Fa-f]{6}" http_objs/%2f | tr -d "#"
73aaee
75aaee
6eaaee
63aaee
74bb12
66bb12
32bb12
35bb12
7bbb12
75ddaa
36ddaa
6cddaa
79ddaa
5fddaa
63ddff
35ddff
35ddff
5fddff
63ddff
30ddff
6cddff
30ddff
72ddff
35ddff
7dddff
```

list the hex color codes (with leading #)
grep -Eo "#[0-9A-Fa-f]{6}" http_objs/%2f

You will see many colors like `73aaee` , `75aaee` , `6eaaee` , etc.

Why this matters: the CSS uses repeated suffixes (e.g. `aaee` , `bb12` , `ddaa` , `ddff`) so the only byte that really changes between entries is the **first pair** (`73` , `75` , `6e` , ...). That first pair is the red channel and is being used as ASCII codes.

Decode the red channel (first byte) into ASCII

```
(kali@kali)-[~/Desktop/sun/misc]
$ grep -Eo "#[0-9A-Fa-f]{6}" http_objs/%2f | \
pipe> sed 's/#//' | \
pipe pipe> python3 -c "import sys; print(''.join(chr(int(x[:2],16)) for x in sys.stdin.read().split()))"
sunctf25{u6ly_c55_c0l0r5}
```

We take the first two hex digits of each `RRGGBB` value, convert from hex to an integer, then to a character. A compact one-liner (bash + python) that was used:

```
grep -Eo "#[0-9A-Fa-f]{6}" http_objs/%2f | sed 's/#//' | \
python3 -c "import sys; print(''.join(chr(int(x[:2],16)) for x in sys.stdin.read().split()))"
```

- `grep` extracts colors like `#73aaee` .

- `sed 's/#//'` removes the leading `#` so each line is `73aaee`.
- Python reads each hex string (`73aaee`) and converts `x[:2]` (`'73'`) from hex to an int then to its ASCII character.

```
sunctf25{u6ly_c55_c0l0r5}
```

we found the flag!