

Web text with HTML

```
$ cat <<EOF >file.html
> <!DOCTYPE html>
> <html>
>   <head>
>     <title>Today's Word</title>
>   </head>
>   <body>
>     <h1>Today's Word</h1>
>     <!-- Pick a random long word -->
>     $(grep ..... /usr/share/dict/words | shuf -n 1)
>   </body>
> </html>
EOF
$
```

Format with Markdown

```
$ cat >long-words.sh <<\EOF
> #!/bin/sh
> {
>   # Level-1 header
>   echo '# Learn Long Words'
>   for i in a b c ; do
>     # Level-2 header separated by newlines
>     printf "\n## Starting With $i\n"
>     # Select words starting with letter and prepend their length
>     awk /^$i/' {print length($1), $1}' /usr/share/dict/words |
>     # Order by length
>     sort -rn |
>     # Select five longest
>     head -5 |
>     # Remove length and prepend bullet
>     sed 's/.* /* /'
>   done
> } |
> # Keep copy
> tee long-words.md |
> # Convert to PDF
> pandoc -f markdown -o long-words.pdf
> EOF
$ sh ./long-words.sh # Create PDF
$ cat long-words.md # Inspect Markdown output
# Learn Long Words
```

```
## Starting With a
* anthropomorphologically
* aquopentammincobaltic
* anatomicophysiological
* appendorontgenography
* anticonstitutionalist
```

```
## Starting With b
* blepharosphincterectomy
* blepharoconjunctivitis
* benzalphenylhydrazone
* bronchoesophagoscopy
* bronchoaspergillosis
```

```
## Starting With c
* counterexcommunication
* choledochoduodenostomy
* cholecystoduodenostomy
* cholecystenterorrhaphy
* crystalloluminescence
$
```

Format code

```
$ pygmentize -f html -l sh -O full,linenos=1 -o long-words.html long-words.sh
```



```

> allbox tab(@);
> c s
> l n .
> Character frequencies
> EOF
> # Put each letter on a separate line
> sed 's/./&\
> /g' pride-and-prejudice.txt | # Specify input file
> sort | # Group characters together
> uniq -c | # Count frequencies
> sort -rn | # Order by frequency
> awk '{print $2 "@" $1}' | # Swap columns; use tbl separator
> head # Obtain first ten frequencies
> echo .TE # Table end
> } |
> tee word-freq.nr | # Keep a copy of generated file
> tbl | # Format the table
> groff >word-freq.ps # Convert troff into Postscript
$ cat word-freq.nr # Show generated troff document
.TS
allbox tab(@);
c s
l n .
Character frequencies
@113892
e@70086
t@46303
a@41278
o@40683
n@38222
i@35858
h@33260
r@33064
s@32679
.TE
$

```

Troff equations with eqn

```

$ eqn <<\EOF |
> The height of a curve with a standard deviation of \(*s is given by:
> .EQ
>  $f(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{x^2}{2\sigma^2}}$ 
> .EN
> EOF
> groff -Tps >equation.ps
$

```