

TEMA 3: Ejercicios de búsqueda en ficheros, comandos split y empaquetadores/compresores

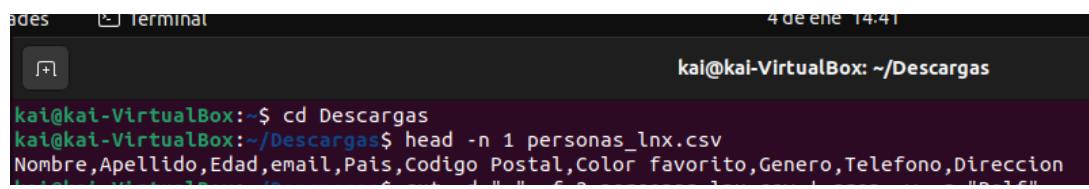
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A [2.5 puntos]. En GNU/Linux, para los datos que están en el fichero personas_lnx.csv, indica los comandos usados y la salida obtenida para buscar la siguiente información:

1. Muestra la cabecera del fichero, donde están indicados qué es cada uno de los campos (columnas) que tiene el fichero de datos

```
head -n 1 personas_lnx.csv
```

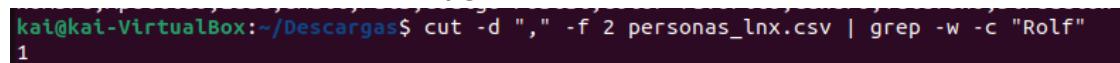
-n 1 indica que solo se muestre una línea



```
kai@kai-VirtualBox:~/Descargas$ head -n 1 personas_lnx.csv
Nombre,Apellido,Edad,email,Pais,Codigo Postal,Color favorito,Genero,Telefono,Direccion
"Jesús","García",25,"jesus.garcia@gmail.com","España",28000,"rojo", "Masculino", "628345678", "Calle de la Constitución, 15"
```

2. ¿Cuántas personas se apellidan exactamente "Rolf"? (antes de calcular el número, comprueba que la búsqueda es correcta)

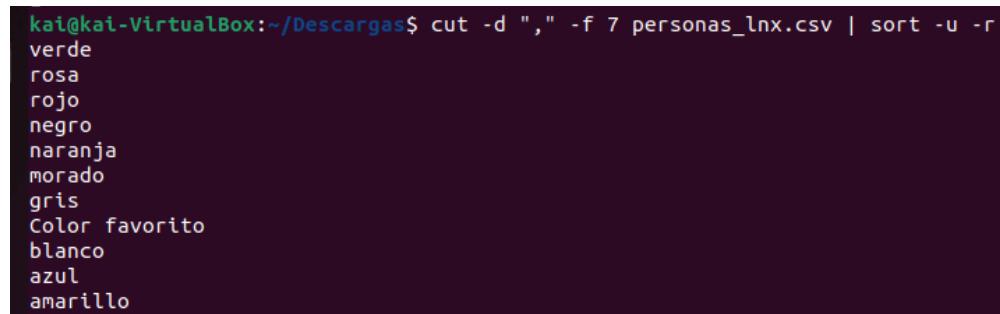
```
cut -d "," -f 2 personas_lnx.csv | grep -w -c "Rolf"
```



```
kai@kai-VirtualBox:~/Descargas$ cut -d "," -f 2 personas_lnx.csv | grep -w -c "Rolf"
1
```

3. Muestra un listado de todos los colores favoritos en orden alfabético descendente (sin que haya repeticiones)

```
cut -d "," -f 7 personas_lnx.csv | sort -u -r
```



```
kai@kai-VirtualBox:~/Descargas$ cut -d "," -f 7 personas_lnx.csv | sort -u -r
verde
rosa
rojo
negro
naranja
morado
gris
Color favorito
blanco
azul
amarillo
```

4. ¿Cuántas personas viven en países de 6 letras?

```
cut -d "," -f 5 personas_lnx.csv | grep -i ".....$"
```

```
Mexico
France
kai@kai-VirtualBox:~/Descargas$ cut -d "," -f 5 personas_lnx.csv | grep -i -c ".....$"
249
```

```
kai@kai-VirtualBox:~/Descargas$ cut -d "," -f 5 personas_lnx.csv | grep -i ".....$"
Russia
Russia
Russia
France
Poland
Mexico
Gambia
Poland
Poland
Russia
Poland
Brazil
France
France
France
Canada
Brazil
Poland
France
Greece
Russia
Brazil
```

5. Muestra el nombre, apellido y país de todas las personas que vivan en un país que acabe en "a".

```
cut -d "," -f 1,2,5 personas_lnx.csv | grep -i ".*,.*,.*a$"
```

```
kai@kai-VirtualBox:~/Descargas$ cut -d "," -f 1,2,5 personas_lnx.csv | grep -i ".*,.*,.*a$"
Friedrick,Stanier,Indonesia
Roddie,Swateridge,China
Michaeline,Preston,China
Shellie,Reddithough,Russia
Ronald,Turland,Indonesia
Nike,Cecely,Russia
Luke,Casol,China
Celka,Dabels,Russia
Benjie,Como,Indonesia
Patten,Boutcher,Cambodia
Dixie,Sharvill,Saudi Arabia
Verna,Mustoo,China
Aldo,Mullarkey,Indonesia
Bryant,Wetherburn,China
Martie,Binstead,Ethiopia
Danit,Monard,Gambia
Gwenny,Kettlestringe,China
Garey,Islip,China
William,Treadgall,Russia
Corie,Wakelin,Indonesia
Randy,McEvoy,China
Nevin,Spritt,China
Kat,Coverlyn,Indonesia
Cynthie,Oldacre,Indonesia
Gaylor,Loffel,China
Raynell,Scotfurth,Indonesia
Harwell,Laker,Colombia
Avigdor,Girardeau,China
Annadiane,Scupham,Syria
Perry,Jovicic,China
Sib,Beneyto,China
Honey,Odo,Canada
Gilbertina,Kopacek,Argentina
James,Storey,China
Marcella,Stoeders,China
Zsazsa,Wrassell,Syria
Cybil,Shoebridge,Bolivia
```

6. ¿A cuántas personas "veinteañeras" les gusta el color rojo?

```
cut -d "," -f 3,7 personas_lnx.csv | grep -E "(^20|21|22|23|24|25|26|27|28|29), rojo"
```

```
kai@kai-VirtualBox:~/Descargas$ cut -d "," -f 3,7 personas_lnx.csv | grep -E "(^20|21|22|23|24|25|26|27|28|29), rojo"
20,rojo
29,rojo
20,rojo
28,rojo
25,rojo
26,rojo
21,rojo
25,rojo
24,rojo
27,rojo
28,rojo
21,rojo
25,rojo
21,rojo
22,rojo
22,rojo
28,rojo
22,rojo
22,rojo
24,rojo
kai@kai-VirtualBox:~/Descargas$ cut -d "," -f 3,7 personas_lnx.csv | grep -E "(^20|21|22|23|24|25|26|27|28|29), rojo" -c
19
kai@kai-VirtualBox:~/Descargas$
```

7. ¿Cuáles son los 5 países donde vive más gente? Muestra qué países son y cuánta gente vive en cada uno de ellos, ordenados de mayor a menor.

```
cut -d "," -f 5 personas_lnx.csv | sort | uniq -c | sort -nr | head -5
```

```
kai@kai-VirtualBox:~/Descargas$ cut -d "," -f 5 personas_lnx.csv | sort | uniq -c | sort -nr | head -5
192 China
109 Indonesia
64 Russia
51 Philippines
41 France
kai@kai-VirtualBox:~/Descargas$
```

8. Haz un listado vertical del directorio donde hayas descargado el fichero personas_lnx.csv, de forma que en el listado únicamente se muestren las siguientes columnas: permisos, propietario, grupo y nombre.

```
ls -l | cut -d ' ' -f 1,3,4,9
```

```
kai@kai-VirtualBox:~/Descargas$ ls -l | cut -d ' ' -f 1,3,4,9
total
-rw-rw-r-- kai kai 5
drwxrwxr-x kai kai
-rw-rw-r-- kai kai OpenJDK21U-jdk_x64_linux_hotspot_21.0.1_12.tar.gz
-rw-rw-r-- kai kai 98085
-rw-rw-r-- kai kai 24557
drwxrwxr-x kai kai
```

WINDOWS

1. ¿Cuántas personas tienen un nombre de 5 letras que empieza por D?

```
cut -d "," -f 1 personas_win.csv | grep -i -w "^\D....$"
```

```
# en windows:
```

```
type personas_win.csv | findstr /i /r /c:"^D....,"  
type personas_win.csv | findstr /i /r /c:"^D....," | find /c /v ""
```

```
C:\Users\kai97\Downloads>type personas_win.csv | findstr /i /r /c:"^D....,"  
Diana,Owain,Thailand  
Davin,Roffey,Burkina Faso  
Dalis,Ladell,Norway  
Dedra,Fancutt,France  
Derry,Bultitude,Czech Republic  
Donal,Beyne,Suriname  
Devin,Cloke,China  
Dynah,Backshaw,Indonesia  
Denys,Ramalho,China  
Daryl,Lux,Brazil  
  
C:\Users\kai97\Downloads>type personas_win.csv | findstr /i /r /c:"^D....," | find /c /v ""  
10  
  
C:\Users\kai97\Downloads>
```

2. ¿Cuántas personas tienen un apellido de 5 letras que empieza por D?

```
cut -d "," -f 2 personas_win.csv | grep -i -w "^\D....$"  
# en windows:  
type personas_win.csv | findstr /i /r /c:"^.*,D....,"  
type personas_win.csv | findstr /i /r /c:"^.*,D....," | find /c /v ""
```

```
C:\Users\kai97\Downloads>type personas_win.csv | findstr /i /r /c:"^.*,D....," | find /c /v ""  
74
```

3. ¿Cuántas personas viven en un país que acaba en "n"?

```
cut -d "," -f 3 personas_win.csv | grep -i -w "n$" #  
en windows  
type personas_win.csv | findstr /i /r /c:",[^,]*n$"
```

```
C:\Users\kai97\Downloads>type personas_win.csv | findstr /i /r /c:",[^,]*n$"
Alanson,Prentice,Sweden
Dede,Briton,Sweden
Karoly,Woehler,Iran
Zacharie,De Bell,Sweden
Thomasin,Biner,Iran
Drucie,Bridge,Yemen
Arlana,English,Spain
Teresita,Emerton,Iran
Starlene,Bollans,Sweden
Ximenes,Chastang,Bahrain
Morgana,Culp,Sweden
Tonnie,McInteer,Sweden
Chelsae,Kirkpatrick,Spain
Minda,Gove,Sweden
Roxine,Doull,Pakistan
Morry,Decruste,Iran
Hodge,Childes,Japan
Allayne,Torrance,Japan
Dani,Perlman,Japan
Pandora,Halladay,Sweden
Willard,Rutley,Pakistan
Thalia,Deport,Sweden
Morgun,Stuart,Sweden
Maxie,Whittington,Sweden
Laughton,Bente,Pakistan
Mavra,Southgate,Benin
Fernande,Aird,Bhutan
Baird,Oguz,Japan
Avram,Ettritch,Japan
Ignacio,Varsey,Japan
Dorita,Pardal,Sweden
Mavis,Kerins,Cameroon
Millie,Strood,Sweden
Mozelle,Dodwell,Sweden
Melodee,Abendroth,Turkmenistan
Lucais,Havock,Sweden
Leese,Gullis,Pakistan
Aurel,Hinrich,Japan
Loella,Glasscoe,Kyrgyzstan
AyImer,Pozer,Azerbaijan
Freddie,Seaborne,Pakistan
Vicki,Copson,Iran
Hi,Crook,Sweden
Violette,Spittall,Lebanon
Biddy,Wiffler,Afghanistan
Grazia,Bysaker,Taiwan
Ancell,Narracott,Pakistan
Morgana,Dartnall,Sweden
Llonni,Ladyman,Afghanistan
Brannon,Sparrowe,Afghanistan

C:\Users\kai97\Downloads>type personas_win.csv | findstr /i /r /c:",[^,]*n$" | find /c /v ""
85

C:\Users\kai97\Downloads>
```

Ejercicios comandos split y empaquetadores/compresores (GNU/Linux)

A. Ejercicios del comando split

(Apuntes: Comandos cut, wc y split)

¡¡CUIDADO!! Seguramente tendrás varios GB de datos, ¡¡vigila tras cada apartado que aún tienes espacio libre de sobra y borra aquellos ficheros que ya no necesites. Al finalizar, BORRA TODOS LOS FICHEROS DEL EJERCICIO!!

- Genera un fichero de 1GiB llamado "datos", en clase hemos visto algunas formas de hacerlo (fallocate, dd, etc.)

fallocate -l 1G datos

```
kat@kai-VirtualBox:~/Descargas$ fallocate -l 1G datos
kat@kai-VirtualBox:~/Descargas$ 
```

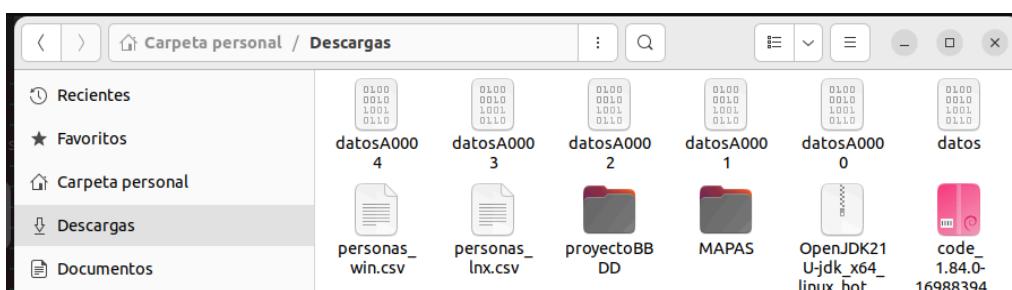
A screenshot of a file manager window titled 'Carpeta personal / Descargas'. The left sidebar shows 'Recientes', 'Favoritos', 'Carpeta personal', and 'Descargas' (which is selected). The main area contains several files and folders: 'datos' (1.1 GB), 'personas_win.csv', 'personas_lnx.csv', 'proyectoBB DD', 'MAPAS', 'OpenJDK21 U-jdk_x64_linux hot...', and 'code_1.84.0-16988394...'. A tooltip at the bottom right says '<datos> seleccionado (1,1 GB)'.

- Separar por tamaño:

- Divide el fichero original "datos" en trozos de 240 MiB con formato datosA0001, datosA0002, datosA0003, ...

split -d -a 4 -b 240M datos datosA

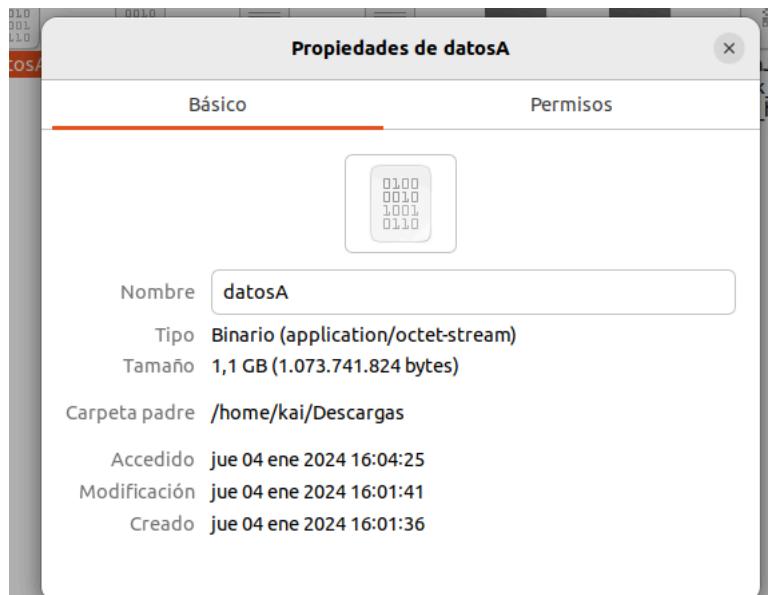
```
-VirtualBox:~/Descargas$ split -d -a 4 -b 240M datos datosA
-VirtualBox:~/Descargas$ 
```



- Une todos los trozos del apartado anterior en un fichero llamado datosA

```
cat datosA* > datosA
```

```
-VirtualBox:~/Descargas$ cat datosA* > datosA
```



c. Comprueba que datos datos y datosA son exactamente el mismo fichero

diff datos datosA

```
-VirtualBox:~/Descargas$ diff datos datosA
-VirtualBox:~/Descargas$
```

2. Separar por número de trozos:

- Divide el fichero original "datos" en 10 trozos llamados datosB0001, datosB0002, datosB0003

split -d -a 4 -n 10 datos datosB

```
-VirtualBox:~/Descargas$ split -d -a 4 -n 10 datos datosB
```

datosB000 9	datosB000 8	datosB000 7	datosB000 6	datosB000 5	datosB000 4
datosB000 3	datosB000 2	datosB000 1	datosB000 0	datosA	DatosA

```

ades Terminal 4 de ene 16:08
kai@kai-VirtualBox: ~/Descargas

VirtualBox:~/Descargas$ fallocate -l 1G datos
VirtualBox:~/Descargas$ split -a 4 -b 240M datos datosA
VirtualBox:~/Descargas$ rm *datosA
se puede borrar '*datosA': No existe el archivo o el directorio
VirtualBox:~/Descargas$ split -a 4 -b 240M datos datosA000
VirtualBox:~/Descargas$ rm datosAaac
VirtualBox:~/Descargas$ rm datosAaaa
VirtualBox:~/Descargas$ rm datosAaab
VirtualBox:~/Descargas$ rm datosAaad
VirtualBox:~/Descargas$ rm datosAaaa
VirtualBox:~/Descargas$ rm datosA000a
se puede borrar 'datosA000a': No existe el archivo o el directorio
VirtualBox:~/Descargas$ rm datosA000aaa
se puede borrar 'datosA000aaa': No existe el archivo o el directorio
VirtualBox:~/Descargas$ rm datosA000aaaa
VirtualBox:~/Descargas$ rm datosA000bbbb
se puede borrar 'datosA000bbbb': No existe el archivo o el directorio
VirtualBox:~/Descargas$ rm datosA000aaab
VirtualBox:~/Descargas$ rm datosA000aaac
VirtualBox:~/Descargas$ rm datosA000aaad
VirtualBox:~/Descargas$ rm datosA000aaae
VirtualBox:~/Descargas$ split -a 4 -b 240M datos datosA

VirtualBox:~/Descargas$ split -d -b 240M datos datosA000
VirtualBox:~/Descargas$ split -d -a 4 -b 240M datos datosA
atosA0001: No queda espacio en el dispositivo
VirtualBox:~/Descargas$ fallocate -l 1G datos
VirtualBox:~/Descargas$ split -d -a 4 -b 240M datos datosA
VirtualBox:~/Descargas$ cat DatosA* > DatosA
tosA*: No existe el archivo o el directorio
VirtualBox:~/Descargas$ cat datosA* > datosA
VirtualBox:~/Descargas$ diff datos datosA
VirtualBox:~/Descargas$ split -d -a 4 -n 10 datos datosB
VirtualBox:~/Descargas$ cat datosB* > datosB
VirtualBox:~/Descargas$ diff datos datosB
VirtualBox:~/Descargas$
```

b. Une todos los trozos del apartado anterior en un fichero llamado datosB

cat datosB* > datosB

```

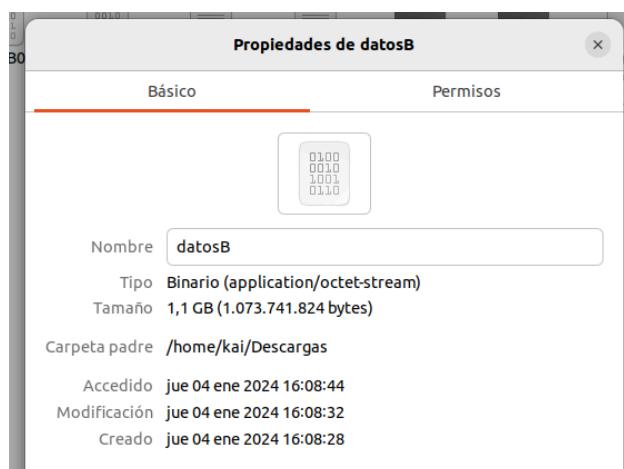
VirtualBox:~/Descargas$ cat datosB* > datosB
```

c. Comprueba que datos y datosB son exactamente el mismo fichero

diff datos datosB

```

VirtualBox:~/Descargas$ split -d -a 4 -n 10 datos datosB
VirtualBox:~/Descargas$ cat datosB* > datosB
VirtualBox:~/Descargas$ diff datos datosB
VirtualBox:~/Descargas$
```



3. Separar por número de líneas:

1. Genera ahora un fichero de TEXTO con 15000 líneas llamado libro (¿Cómo lo harías? Ya hemos visto en clase algunas formas de hacerlo):

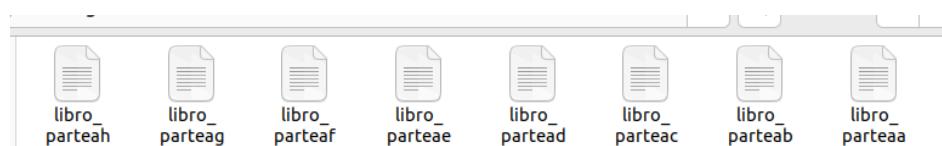
```
seq 1 15000 > libro  
# generando números, uno por linea
```

```
[~VirtualBox:~/Descargas$ seq 1 15000 > libro  
[~VirtualBox:~/Descargas$ ]
```

b. Divide ahora el fichero "libro" en otros que tengan 2000 líneas cada uno

```
split -l 2000 libro libro_parte
```

```
[~VirtualBox:~/Descargas$ split -l 2000 libro libro_parte  
[~VirtualBox:~/Descargas$ ]
```



4. c. Une los trozos anteriores y comprueba que es igual que el fichero original

```
[~VirtualBox:~/Descargas$ cat libro_parte* > libro_unido  
[~VirtualBox:~/Descargas$ ]
```



```
[~VirtualBox:~/Descargas$ diff libro libro_unido -s  
chivos libro y libro_unido son idénticos  
[~VirtualBox:~/Descargas$ ]
```

COMPRESIÓN

B. Ejercicios de empaquetadores/compresores (Apuntes: [Variables - Comprimir/empaquetar](#))

¡¡CUIDADO!! Seguramente tendrás varios GB de datos, ¡¡vigila tras cada apartado que aún tienes espacio libre de sobra y borra aquellos ficheros que ya no necesites. Al finalizar, BORRA TODOS LOS FICHEROS DEL EJERCICIO!!

1. En la práctica del trimestre pasado de Software, en algunos apartados tenías que indicar y/o identificar varias aplicaciones de software libre. Elige una de las aplicaciones de software libre con la que trabajaste en esa práctica, indica qué software es, para qué se utiliza, etc.

NotePad++, es un editor de texto y de código fuente libre con soporte para varios lenguajes de programación.

1. Busca el código fuente de la aplicación (el de la aplicación, NO el de la página web del producto) y descárgatelo. No todas las aplicaciones tienen su código fuente en la web, en algunos casos tienes que ponerte en contacto con los desarrolladores para obtenerlo... Ahora responde: ¿Cómo obtuviste el código fuente? ¿El código fuente está empaquetado y/o comprimido? ¿Qué empaquetador y/o compresor se utilizó?

está en zip en github

1. Comprueba cuánto tamaño ocupa el fichero comprimido, y luego descomprímelo. Ahora compara los tamaños.

Para ver su tamaño comprimido

```
du -h notepad-plus-plus-master.zip
```

Para descomprimir archivo

```
unzip notepad-plus-plus-master.zip
```

Comprueba la diferencia de tamaños

```
du -h notepad-plus-plus-master.zip
```

```
du -h notepad-plus-plus-master
```

Comprimido pesa 12M, y descomprimido 42M

```
kat@kat-VirtualBox:~/Descargas$ du -h notepad-plus-plus-master.zip
12M    notepad-plus-plus-master.zip
kat@kat-VirtualBox:~/Descargas$ unzip notepad-plus-plus-master.zip
Archive:  notepad-plus-plus-master.zip
9c7bb8a08022a5d110f7ca7ae5e5d9ba097e6d34
   creating: notepad-plus-plus-master/
   creating: notepad-plus-plus-master/.github/
  inflating: notepad-plus-plus-master/.github/dependabot.yml
   creating: notepad-plus-plus-master/.github/workflows/
  inflating: notepad-plus-plus-master/.github/workflows/CI_build.yml
  inflating: notepad-plus-plus-master/.gitignore
  inflating: notepad-plus-plus-master/BUILD.md
  inflating: notepad-plus-plus-master/CONTRIBUTING.md
  inflating: notepad-plus-plus-master/ISSUE_TEMPLATE.md
  inflating: notepad-plus-plus-master/LICENSE
   creating: notepad-plus-plus-master/PowerEditor/
   creating: notepad-plus-plus-master/PowerEditor/Test/
   creating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/
   creating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/ada/
extracting: notepad-plus-plus-master/PowerEditor/Test/FunctionList/ada/unitTest.expected.result
  inflating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/ada/unittest
   creating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/asm/
  inflating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/asm/unitTest
  inflating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/asm/unitTest.expected.result
   creating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/autoit/
  inflating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/autoit/unitTest
extracting: notepad-plus-plus-master/PowerEditor/Test/FunctionList/autoit/unitTest.expected.result
   creating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/bash/
  inflating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/bash/unitTest
  inflating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/bash/unitTest.expected.result
   creating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/batch/
  inflating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/batch/unitTest
  inflating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/batch/unitTest.expected.result
   creating: notepad-plus-plus-master/PowerEditor/Test/FunctionList/c/
----- Is Notepad++ text free? -----
```

```
kai@kai-VirtualBox: ~/Descargas/notepad-plus-plus-master
12K notepad-plus-plus-master/PowerEditor/Test/FunctionList/ini
12K notepad-plus-plus-master/PowerEditor/Test/FunctionList/udl-regexGlobalTest
12K notepad-plus-plus-master/PowerEditor/Test/FunctionList/rust
16K notepad-plus-plus-master/PowerEditor/Test/FunctionList/hollywood
20K notepad-plus-plus-master/PowerEditor/Test/FunctionList/sql/comment_assignment
32K notepad-plus-plus-master/PowerEditor/Test/FunctionList/sql
20K notepad-plus-plus-master/PowerEditor/Test/FunctionList/pascal
16K notepad-plus-plus-master/PowerEditor/Test/FunctionList/batch
12K notepad-plus-plus-master/PowerEditor/Test/FunctionList/lua
12K notepad-plus-plus-master/PowerEditor/Test/FunctionList/vhdl
20K notepad-plus-plus-master/PowerEditor/Test/FunctionList/javascript
12K notepad-plus-plus-master/PowerEditor/Test/FunctionList/fortran77
20K notepad-plus-plus-master/PowerEditor/Test/FunctionList/typescript
16K notepad-plus-plus-master/PowerEditor/Test/FunctionList/asm
36K notepad-plus-plus-master/PowerEditor/Test/FunctionList/cpp/1
272K notepad-plus-plus-master/PowerEditor/Test/FunctionList/cpp
16K notepad-plus-plus-master/PowerEditor/Test/FunctionList/fortran
12K notepad-plus-plus-master/PowerEditor/Test/FunctionList/autoit
76K notepad-plus-plus-master/PowerEditor/Test/FunctionList/nsis
20K notepad-plus-plus-master/PowerEditor/Test/FunctionList/xml
856K notepad-plus-plus-master/PowerEditor/Test/FunctionList
856K notepad-plus-plus-master/PowerEditor/Test/UrlDetection/plugins/LuaScript
8,0K notepad-plus-plus-master/PowerEditor/Test/UrlDetection/plugins/Config
868K notepad-plus-plus-master/PowerEditor/Test/UrlDetection/plugins
920K notepad-plus-plus-master/PowerEditor/Test/UrlDetection
1,8M notepad-plus-plus-master/PowerEditor/Test
116K notepad-plus-plus-master/PowerEditor/installer/nsisInclude
120K notepad-plus-plus-master/PowerEditor/installer/bin
6,3M notepad-plus-plus-master/PowerEditor/installer/nativeLang
2,2M notepad-plus-plus-master/PowerEditor/installer/APIs
220K notepad-plus-plus-master/PowerEditor/installer/functionList
2,4M notepad-plus-plus-master/PowerEditor/installer/themes
16K notepad-plus-plus-master/PowerEditor/installer/filesForTesting
2,1M notepad-plus-plus-master/PowerEditor/installer/images
14M notepad-plus-plus-master/PowerEditor/installer
28M notepad-plus-plus-master/PowerEditor
42M notepad-plus-plus-master
kai@kai-VirtualBox:~/Descargas$ cd notepad-plus-plus-master
Is Notepad++ text free?
```

Usando el código fuente de la aplicación que te has descargado, vamos a probar a comprimir/descomprimir usando diferentes aplicaciones y algoritmos. Debes rellenar la tabla que se indica al final.

Aplicación/algortimo	Tamaño original	Comando(s) comprimir	Tiempo comprimir	Tamaño Compr.	% compresión	Comando s descomp.	Tiempo descomp.
gzip	38,4MB	time tar czvf notepad-plus-plus-master.tar.gz notepad-plus-plus-master	4,062s	10,9MB		time tar zxvf notepad-plus-plus-master.tar.gz	1,684s
xz	38,4MB	time tar -cjf notepad-plus-plus-master.tar.xz notepad-plus-plus-master	6,311s	9,5MB		time tar -xvf notepad-plus-plus-master.tar.xz	4,951s
rar	38,4MB	time rar a notepad-plus-plus-master.rar notepad-plus-plus-master	8,530s	11,2MB		time unrar xnotepad-plus-plus-master.rar	3,064s
lha	38,4MB	lha a notepad-plus-plus-master.lha notepad-plus-plus-master	2,725s	19,2 MB		lha x notepad-plus-plus-master.lha	
zip	38,4MB	time zip -r notepad-plus-plus-master.zip	0730s	11,3MB		time unzip notepad-plus-plus-master.zip	0,217s
bzip2	38,4MB	time tar -c notepad-plus bzip2 > notepad-plus-plus-master.tar.b2z tar -xv	6,146s	9,5MB		bzip2 -dc notepad-plus-plus-master.tar.b2z tar -xv	6,273s

XZ

```
sys      0m0,000s
kai@kai-VirtualBox:~/Descargas$ time tar -cjf notepad-plus-plus-master.tar.xz notepad-plus-plus-master/
real    0m6,311s
user    0m5,919s
sys     0m0,155s
kai@kai-VirtualBox:~/Descargas$ ls -l Command=~/usr/bin/rsh
kai@kai-VirtualBox:~/Descargas/xz$ time tar -xvf notepad-plus-plus-master.tar.xz
notepad-plus-plus-master/
notepad-plus-plus-master/.gitignore
notepad-plus-plus-master/README.md
notepad-plus-plus-master/.github/
notepad-plus-plus-master/.github/dependabot.yml
notepad-plus-plus-master/.github/workflows/
notepad-plus-plus-master/.github/workflows/CI_build.yml
notepad-plus-plus-master/CONTRIBUTING.md
notepad-plus-plus-master/appveyor.yml
notepad-plus-plus-master/scintilla/
notepad-plus-plus-master/scintilla/qt/
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.pro
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaQt.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/Notes.txt
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaQt.h
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/PlatQt.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.h
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/PlatQt.h
notepad-plus-plus-master/scintilla/qt/README
notepad-plus-plus-master/scintilla/qt/ScintillaEdit/
notepad-plus-plus-master/PowerEditor/installer/nppSetup.nsi
notepad-plus-plus-master/PowerEditor/installer/images/
notepad-plus-plus-master/PowerEditor/installer/images/wizard_GiletJaune.bmp
notepad-plus-plus-master/PowerEditor/installer/images/wizard.bmp
notepad-plus-plus-master/PowerEditor/installer/images/headerRight.bmp
notepad-plus-plus-master/PowerEditor/installer/images/npp_inst.ico
notepad-plus-plus-master/PowerEditor/installer/images/headerLeft.bmp
notepad-plus-plus-master/PowerEditor/installer/images/header.bmp
notepad-plus-plus-master/PowerEditor/installer/images/NppDownload.psd
notepad-plus-plus-master/PowerEditor/installer/images/splash.bmp
notepad-plus-plus-master/PowerEditor/installer/images/headerLeft_RTL.bmp
notepad-plus-plus-master/ISSUE_TEMPLATE.md

real    0m4,951s
user    0m1,955s
sys     0m0,376s
```

RAR

time rar a notepad-plus-plus-master.rar notepad-plus-plus-master

```
kai@kai-VirtualBox:~/Descargas$ time rar a notepad-plus-plus-master.rar notepad-plus-plus-master
```

```
Updating  notepad-plus-plus-master/lexilla/.github                                OK
Updating  notepad-plus-plus-master/lexilla/access                               OK
Updating  notepad-plus-plus-master/lexilla/src                                 OK
Updating  notepad-plus-plus-master/lexilla/test                                OK
Updating  notepad-plus-plus-master/lexilla/examples                            OK
Updating  notepad-plus-plus-master/lexilla/scripts                            OK
Updating  notepad-plus-plus-master/lexilla/bin                                 OK
Updating  notepad-plus-plus-master/lexilla/doc                                 OK
Updating  notepad-plus-plus-master/lexilla/lexlib                            OK
Updating  notepad-plus-plus-master/lexilla/include                           OK
Updating  notepad-plus-plus-master/lexilla/lexers                            OK
Updating  notepad-plus-plus-master/boostregex/boost                           OK
Updating  notepad-plus-plus-master/PowerEditor/gcc                            OK
Updating  notepad-plus-plus-master/PowerEditor/src                            OK
Updating  notepad-plus-plus-master/PowerEditor/visual.net                      OK
Updating  notepad-plus-plus-master/PowerEditor/misc                           OK
Updating  notepad-plus-plus-master/PowerEditor/scintilla.original.forUpdatin OK
Updating  notepad-plus-plus-master/PowerEditor/bin                             OK
Updating  notepad-plus-plus-master/PowerEditor/Test                            OK
Updating  notepad-plus-plus-master/PowerEditor/installer                      OK
Updating  notepad-plus-plus-master/.github                                    OK
Updating  notepad-plus-plus-master/scintilla                                OK
Updating  notepad-plus-plus-master/lexilla                                  OK
Updating  notepad-plus-plus-master/boostregex                            OK
Updating  notepad-plus-plus-master/PowerEditor                           OK
Updating  notepad-plus-plus-master                                         OK
Done

real    0m8,530s
user    0m3,395s
sys     0m0,315s
kai@kai-VirtualBox:~/Descargas$
```

```
w=<dir> spectre extract directory
kai@kai-VirtualBox:~/Descargas$ du -h notepad-plus-plus-master.rar
11M    notepad-plus-plus-master.rar
kai@kai-VirtualBox:~/Descargas$
```

```

onfigurando unrar (1:6.1.5-1) ...
pdate-alternatives: utilizando /usr/bin/unrar-nonfree para proveer /usr/bin/unr
r (unrar) en modo automático
rocesando disparadores para man-db (2.10.2-1) ...
[[A^[[A^Z
1]+ Detenido      sudo apt install unrar
ai@kai-VirtualBox:~/Descargas$ time unrar x notepad-plus-plus-master.rar

NRAR 6.11 beta 1 freeware      Copyright (c) 1993-2022 Alexander Roshal

xtracting from notepad-plus-plus-master.rar

reating  notepad-plus-plus-master                           OK
xtracting  notepad-plus-plus-master/.gitignore              OK
xtracting  notepad-plus-plus-master/README.md               OK
reating  notepad-plus-plus-master/.github                   OK
xtracting  notepad-plus-plus-master/.github/dependabot.yml OK
reating  notepad-plus-plus-master/.github/workflows        OK
xtracting  notepad-plus-plus-master/.github/workflows/CI_build.yml OK
xtracting  notepad-plus-plus-master/CONTRIBUTING.md       OK
reating  notepad-plus-plus-master/appveyor.yml            OK
reating  notepad-plus-plus-master/scintilla                OK
reating  notepad-plus-plus-master/scintilla/qt             OK
reating  notepad-plus-plus-master/scintilla/qt/scintillaEditBase/scintillaEditBase.pro OK
xtracting  notepad-plus-plus-master/scintilla/qt/scintillaEditBase/scintillaQt.cpp OK
xtracting  notepad-plus-plus-master/scintilla/qt/scintillaEditBase/Notes.txt   OK

Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/khaki.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes>Hello Kitty.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Plastic Code Wrap.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Mono Industrial.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/MossyLawn.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/DansLeRuSH-Dark.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Twilight.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Choco.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Monokai.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Zenburn.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Ruby Blue.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Navajo.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Solarized-light.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Bespin.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Black board.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/Deep Black.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/themes/DarkModeDefault.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/sign-installers.bat OK
Creating   notepad-plus-plus-master/PowerEditor/installer/filesForTesting OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/filesForTesting/overrideMap.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/filesForTesting/regexGlobalTest.xml OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/nppSetup.nst OK
Creating   notepad-plus-plus-master/PowerEditor/installer/Images OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/wizard_GiletJaune.bmp OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/wizard.bmp OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/headerRight.bmp OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/npp_inst.ico OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/headerLeft.bmp OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/header.bmp OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/NppDownload.psd OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/splash.bmp OK
Extracting  notepad-plus-plus-master/PowerEditor/installer/Images/headerLeft_RTL.bmp OK
Extracting  notepad-plus-plus-master/ISSUE_TEMPLATE.md          OK
All OK

real    0m3,064s
user    0m0,480s
sys     0m0,484s
kat@kai-VirtualBox:~/Descargas$
```

BZ2

bzip2 -dc notepad-plus-plus-master.tar.bz2 | tar -xv

```

kat@kai-VirtualBox:~/Descargas$ time tar -c notepad-plus-plus-master | bzip2 > notepad-plus-plus-master.tar.bz2
real    0m6,146s
user    0m5,884s
sys     0m0,124s
kat@kai-VirtualBox:~/Descargas$ bzip2 -dc notepad-plus-plus-master.tar.bz2 | tar -xv
notepad-plus-plus-master/
notepad-plus-plus-master/.gitignore
notepad-plus-plus-master/README.md
notepad-plus-plus-master/.github/
notepad-plus-plus-master/.github/dependabot.yml
notepad-plus-plus-master/.github/workflows/
notepad-plus-plus-master/.github/workflows/CI_build.yml
notepad-plus-plus-master/CONTRIBUTING.md
notepad-plus-plus-master/appveyor.yml
notepad-plus-plus-master/scintilla/
notepad-plus-plus-master/scintilla/qt/
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.pro
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaQt.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/Notes.txt
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaQt.h
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/PlatQt.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.h
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/PlatQt.h
notepad-plus-plus-master/scintilla/qt/README
```

```
notepad-plus-plus-master/PowerEditor/installer/filesForTesting/
notepad-plus-plus-master/PowerEditor/installer/filesForTesting/overrideMap.xml
notepad-plus-plus-master/PowerEditor/installer/filesForTesting/regexGlobalTest.xml
notepad-plus-plus-master/PowerEditor/installer/nppSetup.nsi
notepad-plus-plus-master/PowerEditor/installer/images/
notepad-plus-plus-master/PowerEditor/installer/images/wizard_GiletJaune.bmp
notepad-plus-plus-master/PowerEditor/installer/images/wizard.bmp
notepad-plus-plus-master/PowerEditor/installer/images/headerRight.bmp
notepad-plus-plus-master/PowerEditor/installer/images/npp_inst.ico
notepad-plus-plus-master/PowerEditor/installer/images/headerLeft.bmp
notepad-plus-plus-master/PowerEditor/installer/images/header.bmp
notepad-plus-plus-master/PowerEditor/installer/images/NppDownload.psd
notepad-plus-plus-master/PowerEditor/installer/images/splash.bmp
notepad-plus-plus-master/PowerEditor/installer/images/headerLeftRTL.bmp
notepad-plus-plus-master/ISSUE_TEMPLATE.md

real    0m6.273s
user    0m2.396s
sys     0m0.508s
```

```
kai@kai-VirtualBox:~/Descargas$ du -h notepad-plus-plus-master.tar.bz2
9,1M  notepad-plus-plus-master.tar.bz2
kai@kai-VirtualBox:~/Descargas$
```

GZIP

```
time tar czvf notepad-plus-plus-master.tar.gz notepad-plus-plus-master
```

```
a@kai-VirtualBox:~/Descargas/gzip$ time tar czvf notepad-plus-plus-master.tar.gz notepad-plus-plus-master
notepad-plus-plus-master/
notepad-plus-plus-master/.gitignore
notepad-plus-plus-master/README.md
notepad-plus-plus-master/.github/
notepad-plus-plus-master/.github/dependabot.yml
notepad-plus-plus-master/.github/workflows/
notepad-plus-plus-master/.github/workflows/CI_build.yml
notepad-plus-plus-master/CONTRIBUTING.md
notepad-plus-plus-master/appveyor.yml
notepad-plus-plus-master/scintilla/
notepad-plus-plus-master/scintilla/qt/
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.pro
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaQt.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/Notes.txt
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaQt.h
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/PlatQt.cpp
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.h
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/PlatQt.h
notepad-plus-plus-master/scintilla/qt/README
notepad-plus-plus-master/scintilla/qt/ScintillaEdit/
notepad-plus-plus-master/scintilla/qt/ScintillaEdit.pro
```

```
time tar zxvf notepad-plus-plus-master.tar.gz
```

```
notepad-plus-plus-master/PowerEditor/installer/images/npp_inst.ico  
notepad-plus-plus-master/PowerEditor/installer/images/headerLeft.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/header.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/NppDownload.psd  
notepad-plus-plus-master/PowerEditor/installer/images/splash.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/headerLeft RTL.bmp  
notepad-plus-plus-master/ISSUE_TEMPLATE.md  
  
real    0m4.062s  
user    0m1.685s  
sys     0m0.148s  
kai@kai-VirtualBox:~/Descargas/gzip$ time tar zxvf notepad-plus-plus-master.tar.gz  
notepad-plus-plus-master/  
notepad-plus-plus-master/.gitignore  
notepad-plus-plus-master/README.md  
notepad-plus-plus-master/.github/  
notepad-plus-plus-master/.github/dependabot.yml  
notepad-plus-plus-master/.github/workflows/  
notepad-plus-plus-master/.github/workflows/CI_build.yml  
notepad-plus-plus-master/CONTRIBUTING.md  
notepad-plus-plus-master/appveyor.yml  
notepad-plus-plus-master/scintilla/  
notepad-plus-plus-master/scintilla/qt/  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.pro  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaQt.cpp  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/Notes.txt  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaQt.h  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.cpp  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/PlatQt.cpp  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/ScintillaEditBase.h  
notepad-plus-plus-master/scintilla/qt/ScintillaEditBase/PlatQt.h  
notepad-plus-plus-master/scintilla/qt/README  
notepad-plus-plus-master/scintilla/qt/ScintillaEdit/  
notepad-plus-plus-master/scintilla/qt/ScintillaEdit/ScintillaEdit.pro  
notepad-plus-plus-master/scintilla/qt/ScintillaEdit/WidgetGen.py  
notepad-plus-plus-master/scintilla/qt/ScintillaEdit/ScintillaEdit.cpp.template
```

```
notepad-plus-plus-master/PowerEditor/installer/themes/Mono Industrial.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/MossyLawn.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/DansLeRuSH-Dark.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Twilight.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Choco.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Monokai.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Zenburn.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Ruby Blue.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Navajo.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Solarized-light.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Bespin.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Black board.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/Deep Black.xml  
notepad-plus-plus-master/PowerEditor/installer/themes/DarkModeDefault.xml  
notepad-plus-plus-master/PowerEditor/installer/sign-installers.bat  
notepad-plus-plus-master/PowerEditor/installer/filesForTesting/  
notepad-plus-plus-master/PowerEditor/installer/filesForTesting/overrideMap.xml  
notepad-plus-plus-master/PowerEditor/installer/filesForTesting/regexGlobalTest.xml  
notepad-plus-plus-master/PowerEditor/installer/nppSetup.nsi  
notepad-plus-plus-master/PowerEditor/installer/images/  
notepad-plus-plus-master/PowerEditor/installer/images/wizard_GiletJaune.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/wizard.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/headerRight.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/npp_inst.ico  
notepad-plus-plus-master/PowerEditor/installer/images/headerLeft.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/header.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/NppDownload.psd  
notepad-plus-plus-master/PowerEditor/installer/images/splash.bmp  
notepad-plus-plus-master/PowerEditor/installer/images/headerLeft RTL.bmp  
notepad-plus-plus-master/ISSUE_TEMPLATE.md  
  
real    0m1.684s  
user    0m0.377s  
sys     0m0.280s  
kai@kai-VirtualBox:~/Descargas/gzip$ cd ..  
kai@kai-VirtualBox:~/Descargas$ cd zip  
kai@kai-VirtualBox:~/Descargas/zip$ zip notepad-plus-plus-master  
  
zip error: Nothing to do! (notepad-plus-plus-master.zip)  
kai@kai-VirtualBox:~/Descargas/zip$ time zip notepad-plus-plus-master.zip
```

```
kai@kai-VirtualBox:~/Descargas$ du -h notepad-plus-plus-master.tar.gz
11M    notepad-plus-plus-master.tar.gz
kai@kai-VirtualBox:~/Descargas$
```

zip

```
law@al03pc20:~/Descargas$ time zip -r notepad-plus-plus-master.zip notepad-plus-plus-master
adding: notepad-plus-plus-master/ (stored 0%)
adding: notepad-plus-plus-master/boostregex/ (stored 0%)
adding: notepad-plus-plus-master/boostregex/UTF8DocumentIterator.h (deflated 58%)
adding: notepad-plus-plus-master/boostregex/nppSpecifics.mak (deflated 53%)
adding: notepad-plus-plus-master/boostregex/AnsiDocumentIterator.h (deflated 61%)
adding: notepad-plus-plus-master/boostregex/BoostRegExSearch.cxx (deflated 73%)
adding: notepad-plus-plus-master/boostregex/boost/ (stored 0%)
adding: notepad-plus-plus-master/boostregex/boost/exception/ (stored 0%)
adding: notepad-plus-plus-master/boostregex/boost/exception/info_tuple.hpp (deflated 74%)
adding: notepad-plus-plus-master/boostregex/boost/exception/get_error_info.hpp (deflated 74%)
adding: notepad-plus-plus-master/boostregex/boost/exception/errinfo_file_handle.hpp (deflated 38%)
adding: notepad-plus-plus-master/boostregex/boost/exception/errinfo_api_function.hpp (deflated 40%)
adding: notepad-plus-plus-master/boostregex/boost/exception/enable_error_info.hpp (deflated 30%)
adding: notepad-plus-plus-master/boostregex/boost/exception/enable_current_exception.hpp (deflated 30%)
adding: notepad-plus-plus-master/boostregex/boost/exception/to_string_stub.hpp (deflated 72%)
adding: notepad-plus-plus-master/boostregex/boost/exception/errinfo_type_info_name.hpp (deflated 40%)
adding: notepad-plus-plus-master/boostregex/boost/exception/info.hpp (deflated 79%)
adding: notepad-plus-plus-master/boostregex/boost/exception/errinfo_file_open_mode.hpp (deflated 43%)
adding: notepad-plus-plus-master/boostregex/boost/exception/errinfo_errno.hpp (deflated 49%)
adding: notepad-plus-plus-master/boostregex/boost/exception/errinfo_file_name.hpp (deflated 43%)
adding: notepad-plus-plus-master/boostregex/boost/exception/to_string.hpp (deflated 64%)
adding: notepad-plus-plus-master/boostregex/boost/exception/diagnostic_information.hpp (deflated 74%)
adding: notepad-plus-plus-master/boostregex/boost/exception/current_exception_cast.hpp (deflated 51%)
adding: notepad-plus-plus-master/boostregex/boost/exception/errinfo_at_line.hpp (deflated 35%)
adding: notepad-plus-plus-master/boostregex/boost/exception/all.hpp (deflated 64%)
adding: notepad-plus-plus-master/boostregex/boost/exception/exception.hpp (deflated 82%)
adding: notepad-plus-plus-master/boostregex/boost/exception/errinfo_nested_exception.hpp (deflated 40%)
adding: notepad-plus-plus-master/boostregex/boost/exception/detail/ (stored 0%)
adding: notepad-plus-plus-master/boostregex/boost/exception/detail/error_info_impl.hpp (deflated 67%)
adding: notepad-plus-plus-master/boostregex/boost/exception/detail/clone_current_exception.hpp (deflated 59%)
adding: notepad-plus-plus-master/boostregex/boost/exception/detail/shared_ptr.hpp (deflated 43%)
adding: notepad-plus-plus-master/boostregex/boost/exception/detail/type_info.hpp (deflated 62%)
adding: notepad-plus-plus-master/boostregex/boost/exception/detail/exception_ptr.hpp (deflated 83%)
adding: notepad-plus-plus-master/boostregex/boost/exception/detail/is_output_streamable.hpp (deflated 60%)
adding: notepad-plus-plus-master/boostregex/boost/exception/detail/object_hex_dump.hpp (deflated 54%)
adding: notepad-plus-plus-master/boostregex/boost/exception/error_info.hpp (deflated 31%)
adding: notepad-plus-plus-master/boostregex/boost/config.hpp (deflated 67%)
adding: notepad-plus-plus-master/boostregex/boost/config/ (stored 0%)
```

```
adding: notepad-plus-plus-master/lexilla/lexers/LexICL.cxx (deflated 71%)
adding: notepad-plus-plus-master/lexilla/lexers/LexNim.cxx (deflated 80%)
adding: notepad-plus-plus-master/lexilla/lexers/LexAPDL.cxx (deflated 68%)
adding: notepad-plus-plus-master/lexilla/lexers/LexPowerShell.cxx (deflated 73%)
adding: notepad-plus-plus-master/lexilla/lexers/LexAU3.cxx (deflated 75%)
adding: notepad-plus-plus-master/lexilla/lexers/LexMatlab.cxx (deflated 74%)
adding: notepad-plus-plus-master/lexilla/lexers/LexCsound.cxx (deflated 68%)
adding: notepad-plus-plus-master/lexilla/lexers/LexBaan.cxx (deflated 77%)
adding: notepad-plus-plus-master/lexilla/lexers/LexFSharp.cxx (deflated 74%)
adding: notepad-plus-plus-master/lexilla/lexers/LexD.cxx (deflated 74%)
adding: notepad-plus-plus-master/lexilla/lexers/LexIndent.cxx (deflated 65%)
adding: notepad-plus-plus-master/lexilla/lexers/LexASY.cxx (deflated 70%)
adding: notepad-plus-plus-master/lexilla/lexers/LexA68k.cxx (deflated 76%)
adding: notepad-plus-plus-master/lexilla/lexers/LexHollywood.cxx (deflated 70%)
adding: notepad-plus-plus-master/lexilla/lexers/LexRebol.cxx (deflated 72%)
adding: notepad-plus-plus-master/lexilla/lexers/LexMaxima.cxx (deflated 67%)
adding: notepad-plus-plus-master/lexilla/lexers/LexCPP.cxx (deflated 76%)
adding: notepad-plus-plus-master/lexilla/lexers/LexPerl.cxx (deflated 74%)
adding: notepad-plus-plus-master/lexilla/lexers/LexSmalltalk.cxx (deflated 73%)
adding: notepad-plus-plus-master/lexilla/lexers/LexTACL.cxx (deflated 73%)

real    0m0,730s
user    0m0,687s
sys     0m0,036s
daw@al03pc20:~/Descargas$
```

unzip

```
daw@a103pc20:~/Descargas$ time unzip notepad-plus-plus-master.zip
Archive: notepad-plus-plus-master.zip
  creating: notepad-plus-plus-master/
  creating: notepad-plus-plus-master/boostregex/
  inflating: notepad-plus-plus-master/boostregex/UTF8DocumentIterator.h
  inflating: notepad-plus-plus-master/boostregex/nppSpecifics.mak
  inflating: notepad-plus-plus-master/boostregex/AnsiDocumentIterator.h
  inflating: notepad-plus-plus-master/boostregex/BoostRegExSearch.cxx
  creating: notepad-plus-plus-master/boostregex/boost/
  creating: notepad-plus-plus-master/boostregex/boost/exception/
  inflating: notepad-plus-plus-master/boostregex/boost/exception/info_tuple.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/get_error_info.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/errinfo_file_handle.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/errinfo_api_function.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/enable_error_info.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/enable_current_exception.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/to_string_stub.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/errinfo_type_info_name.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/info.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/errinfo_file_open_mode.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/errinfo_errno.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/errinfo_file_name.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/to_string.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/diagnostic_information.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/current_exception_cast.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/errinfo_at_line.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/all.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/exception.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/errinfo_nested_exception.hpp
  creating: notepad-plus-plus-master/boostregex/boost/exception/detail/
  inflating: notepad-plus-plus-master/boostregex/boost/exception/detail/error_info_impl.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/detail/clone_current_exception.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/detail/shared_ptr.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/detail/type_info.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/detail/exception_ptr.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/detail/is_output_streamable.hpp
  inflating: notepad-plus-plus-master/boostregex/boost/exception/detail/object_hex_dump.hpp

  inflating: notepad-plus-plus-master/lexilla/lexers/LexBaud.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexFSharp.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexD.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexIndent.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexASY.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexA68k.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexHollywood.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexRebol.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexMaxima.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexCPP.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexPerl.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexSmalltalk.cpp
  inflating: notepad-plus-plus-master/lexilla/lexers/LexTACL.cpp

real    0m0,217s
user    0m0,171s
sys     0m0,044s
daw@a103pc20:~/Descargas$
```

Iha

Iha a

```
notepad-plus-plus-master/boostregex/boost/regex/v5/regex_merge.hpp      - Frozen(56%)
notepad-plus-plus-master/boostregex/boost/regex/v5/perl_matcher.hpp     - Frozen(60%)
notepad-plus-plus-master/boostregex/boost/regex/pattern_except.hpp      - Frozen(65%)
notepad-plus-plus-master/boostregex/boost/regex/regex_traits.hpp        - Frozen(65%)
notepad-plus-plus-master/boostregex/boost/regex/config.hpp             - Frozen(65%) o
notepad-plus-plus-master/boostregex/boost/regex/mfc.hpp                - Frozen(59%) o
notepad-plus-plus-master/boostregex/boost/regex/concepts.hpp           - Frozen(60%) o
notepad-plus-plus-master/boostregex/boost/regex/user.hpp               - Frozen(64%) o
notepad-plus-plus-master/boostregex/boost/regex/icu.hpp                - Frozen(64%) o
notepad-plus-plus-master/boostregex/boost/cstdint.hpp                 - Frozen(63%) ooo
notepad-plus-plus-master/boostregex/nppSpecifics_mingw.mak            - Frozen(67%) o
notepad-plus-plus-master/boostregex/AnsiDocumentIterator.h             - Frozen(65%) o
notepad-plus-plus-master/boostregex/UTF8DocumentIterator.h             - Frozen(66%) o
notepad-plus-plus-master/boostregex/BoostRegExSearch.cxx              - Frozen(65%) o
notepad-plus-plus-master/boostregex/nppSpecifics.mak                  - Frozen(69%) o
notepad-plus-plus-master/boostregex/UTF8DocumentIterator.cxx           - Frozen(67%) o
notepad-plus-plus-master/nppGpgPub.asc                                - Frozen(75%) ooooo
notepad-plus-plus-master/LICENSE                                     - Frozen(57%) ooooo
notepad-plus-plus-master/.github/dependabot.yml                     - Frozen(57%) o
notepad-plus-plus-master/.github/workflows/CI_build.yml              - Frozen(62%) o
notepad-plus-plus-master/.gitignore                                 - Frozen(62%) o
notepad-plus-plus-master/BUILD.md                                  - Frozen(63%) o
```

```
real    0m2,725s
user    0m2,786s
sys     0m1,610s
```

```
notepad-plus-plus-Master/boostregex/boost/regex/v5/wsz_regex_traits.hpp - Melted   :
notepad-plus-plus-master/boostregex/boost/regex/v5/cregex.hpp       - Melted   : o
notepad-plus-plus-master/boostregex/boost/regex/v5/regex_iterator.hpp - Melted   :
notepad-plus-plus-master/boostregex/boost/regex/v5/primary_transform.hpp - Melted   :
notepad-plus-plus-master/boostregex/boost/regex/v5/mem_block_cache.hpp - Melted   :
notepad-plus-plus-master/boostregex/boost/regex/v5/regex_merge.hpp    - Melted   :
notepad-plus-plus-master/boostregex/boost/regex/v5/perl_matcher.hpp   - Melted   :
notepad-plus-plus-master/boostregex/boost/regex/pattern_except.hpp    - Melted   :
notepad-plus-plus-master/boostregex/boost/regex/regex_traits.hpp      - Melted   :
notepad-plus-plus-master/boostregex/boost/regex/config.hpp            - Melted   : o
notepad-plus-plus-master/boostregex/boost/regex/mfc.hpp               - Melted   : o
notepad-plus-plus-master/boostregex/boost/regex/concepts.hpp          - Melted   : o
notepad-plus-plus-master/boostregex/boost/regex/user.hpp              - Melted   : o
notepad-plus-plus-master/boostregex/boost/regex/icu.hpp               - Melted   : o
notepad-plus-plus-master/boostregex/boost/cstdint.hpp                - Melted   : ooo
notepad-plus-plus-master/boostregex/nppSpecifics_mingw.mak            - Melted   : o
notepad-plus-plus-master/boostregex/AnsiDocumentIterator.h             - Melted   : o
notepad-plus-plus-master/boostregex/UTF8DocumentIterator.h             - Melted   : o
notepad-plus-plus-master/boostregex/BoostRegExSearch.cxx              - Melted   : o
notepad-plus-plus-master/boostregex/nppSpecifics.mak                  - Melted   : o
notepad-plus-plus-master/boostregex/UTF8DocumentIterator.cxx           - Melted   : o
notepad-plus-plus-master/nppGpgPub.asc                                - Melted   : ooooo
notepad-plus-plus-master/LICENSE                                     - Melted   : ooooo
notepad-plus-plus-master/.github/dependabot.yml                     - Melted   : o
notepad-plus-plus-master/.github/workflows/CI_build.yml              - Melted   : o
notepad-plus-plus-master/.gitignore                                 - Melted   : o
notepad-plus-plus-master/BUILD.md                                  - Melted   : o
```

```
real    0m1,300s
user    0m1,354s
sys     0m0,917s
```