

Generate number sequences

```
$ seq 5
1
2
3
4
5
$ for i in $(seq 50) ; do
>   echo -n '.'
> done
.....
$ seq 0.1 4.5
0.1
1.1
2.1
3.1
4.1
$ seq 0 20 100
0
20
40
60
80
100
$
```

Generate blocks of data

```
$ tar cf - /home | ssh tapehost.example.com dd of=/dev/st0 bs=1M
$ dd if=/dev/zero of=1GBfile bs=1M count=1000
1000+0 records in
1000+0 records out
1048576000 bytes (1.0 GB) copied, 0.353017 s, 3.0 GB/s
$ ls -lh 1GBfile
-rw-r--r-- 1 dds None 1000M Jan  2 15:01 1GBfile
$ ssh remote.example.com 'nc -l 9999 >/dev/null &'
$ dd if=/dev/zero bs=1M count=10 | nc -w 1 remote.example.com 9999
10+0 records in
10+0 records out
10485760 bytes (10 MB) copied, 9.50249 s, 1.1 MB/s
$ curl ftp://ftp.freebsd.org/pub/FreeBSD/releases/amd64/amd64/ISO-IMAGES/\
> 10.3/FreeBSD-10.3-RELEASE-amd64-memstick.img | # Fetch bootable FreeBSD image
> sudo dd of=/dev/sdx bs=10240 # Write it to a pen drive
$
```

Generate repeated strings

```
$ yes | head
y
y
y
y
y
y
y
y
y
y
y
$ yes no | head -5
no
no
```

```
no
no
no
$ yes | fsck /dev/sdb2
$
```

The dictionary file

```
$ cd /usr/share/dict
$ head words # First ten words in dictionary
A
a
aa
aal
aalii
aam
Aani
aardvark
aardwolf
Aaron
$ tail words # Last ten words in dictionary
zymotoxic
zymurgy
Zyrenian
Zyrian
Zyryan
zythem
Zythia
zythum
Zyzomys
Zyzzogeton
$ wc -l words # Number of lines (words) in dictionary
235882 words
$
```

Generate random data

```
$ openssl rand 10 | # Generate ten random bytes
> od -d -A n # Convert them into five integers
36276 38549 60385 14871 14780
$ openssl rand 256 | # Generate 256 random bytes
> tr -cd 'a-zA-Z0-9!@#%*()-_+=:;".,./?' | # Keep printable characters
> cut -b1-10 # Print first ten characters
u?L5rK_EK,
$
```