

YTU RACING BASIC UNIX COMMANDS REPORT

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ls : Dosya ve dizinleri listeler.

Örnek: ls -l (uzun formatta listeler), ls -a (gizli dosyaları da listeler)

```
-zsh
clas0512@Adems-MBP ~ % ls
Applications      Library          Qt
Creative Cloud Files  Movies          downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures
Downloads         Public
clas0512@Adems-MBP ~ %
```

```
-zsh
clas0512@Adems-MBP ~ % ls -la
total 120
drwxr-xr-x+ 32 clas0512 staff  1024 Sep 27 14:17 .
drwxr-xr-x+  6 root   admin   192 Sep 13 21:37 ..
-rw-r--r--+  1 clas0512 staff    7 Sep 13 21:49 .CFUserTextEncoding
-rw-r--r--+  1 clas0512 staff 10244 Sep 23 23:45 .DS_Store
drwxr-xr-x+  2 clas0512 staff   64 Sep 27 14:15 .Trash
drwxr-xr-x+ 12 clas0512 staff  384 Sep 16 18:42 .arduinoIDE
-rw-r--r--+  1 clas0512 staff  594 Sep 25 15:43 .bash_history
drwxr-xr-x+  4 clas0512 staff  128 Sep 19 21:19 .config
-rw-r--r--+  1 clas0512 staff   20 Sep 25 14:39 .lessht
drwxr-xr-x+  4 clas0512 staff  128 Sep 26 20:27 .pyenv
-rw-r--r--+  6 clas0512 staff  192 Sep 26 11:33 .ssh
-rw-r--r--+  1 clas0512 staff 8488 Sep 26 21:13 .viminfo
drwxr-xr-x+  3 clas0512 staff   96 Sep 25 10:48 .vscode
```

cd : Dizinleri değiştirir.

Örnek: cd /home/kullanici/ (kullanıcı dizinine geçer).

```
ssh
clas0512@Adems-MBP ~ % pwd
/Users/clas0512
clas0512@Adems-MBP ~ % cd Desktop
clas0512@Adems-MBP Desktop % pwd
/Users/clas0512/Desktop
clas0512@Adems-MBP Desktop % cd ..
clas0512@Adems-MBP ~ % pwd
/Users/clas0512
clas0512@Adems-MBP ~ %
```

pwd : Şu anki çalışma dizininin tam yolunu gösterir.

mkdir : Yeni bir dizin oluşturur.

Örnek: mkdir yeni_dizin.

```
-zsh
clas0512@Adems-MBP ~ % ls
Applications      Library          Qt
Creative Cloud Files  Movies          downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures
Downloads         Public
clas0512@Adems-MBP ~ % mkdir try
clas0512@Adems-MBP ~ % ls
Applications      Library          Qt
Creative Cloud Files  Movies          downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures          try
Downloads         Public
clas0512@Adems-MBP ~ %
```

rmdir : Boş bir dizini siler.

Örnek: rmdir eski_dizin.

```
-zsh
clas0512@Adems-MBP ~ % ls
Applications      Library          Qt
Creative Cloud Files  Movies          downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures          try
Downloads         Public
clas0512@Adems-MBP ~ % rmdir try
clas0512@Adems-MBP ~ % ls
Applications      Library          Qt
Creative Cloud Files  Movies          downloadtemp
Desktop           Music            ros_catkin_ws
Documents         Pictures
Downloads         Public
clas0512@Adems-MBP ~ %
```



touch : Yeni bir dosya oluşturur veya dosyanın tarihini günceller.

Örnek: touch yeni_dosya.txt.

```
-zsh
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music             ros_catkin_ws
Documents         Pictures
Downloads         Public
clas0512@Adems-MBP ~ % touch try.txt
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music             ros_catkin_ws
Documents         Pictures           try.txt
Downloads         Public
```

cp : Dosyaları kopyalar.

Örnek: cp dosya1 dosya2 (dosya1'i dosya2 olarak kopyalar).

```
-zsh
clas0512@Adems-MBP ~ % echo "YTU RACING AUTONOMOUS 0" > try.txt
clas0512@Adems-MBP ~ % cat try.txt
YTU RACING AUTONOMOUS 0
clas0512@Adems-MBP ~ % cp try.txt catch.txt
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music             ros_catkin_ws
Documents         Pictures           try.txt
Downloads         Public
clas0512@Adems-MBP ~ % cat catch.txt
YTU RACING AUTONOMOUS 0
```

mv : Dosyaları taşır veya yeniden adlandırır.

Örnek: mv eski_dosya.txt yeni_dizin/ (dosyayı yeni dizine taşır).

```
-zsh
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           catch.txt
Desktop           Music             downloadtemp
Documents         Pictures           ros_catkin_ws
Downloads         Public           try.txt
clas0512@Adems-MBP ~ % mv try.txt exception.txt
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           catch.txt
Desktop           Music             downloadtemp
Documents         Pictures           exception.txt
Downloads         Public           ros_catkin_ws
```

rm : Dosyaları veya dizinleri siler.

Örnek: rm dosya.txt, rm -r dizin/ (dizin ve içeriğini siler).

```
-zsh
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           catch.txt
Desktop           Music             downloadtemp
Documents         Pictures           exception.txt
Downloads         Public           ros_catkin_ws
clas0512@Adems-MBP ~ % rm catch.txt
clas0512@Adems-MBP ~ % ls
Applications      Library           Qt
Creative Cloud Files  Movies           downloadtemp
Desktop           Music             exception.txt
Documents         Pictures           ros_catkin_ws
Downloads         Public
```



cat : Dosya içeriğini gösterir veya dosyaları birleştirir.

Örnek: cat dosya.txt.

```
-zsh
clas0512@Adems-MBP ~ % cat exception.txt
YTU RACING AUTONOMOUS 0
clas0512@Adems-MBP ~ %
```

grep : Belirli bir metni dosyalarda veya çıktılarda arar.

Örnek: grep "kelime" dosya.txt.

```
-zsh
clas0512@Adems-MBP ~ % ls | grep "M"
Movies
Music
clas0512@Adems-MBP ~ %
```

echo : Metni ekrana yazdırır veya dosyalara yazar.

Örnek: echo "Merhaba, Dünya!" > dosya.txt (dosyaya yazdırır).

```
-zsh
clas0512@Adems-MBP ~ % echo "HELLO WORLD"
HELLO WORLD
clas0512@Adems-MBP ~ %
```

chmod: Dosya izinlerini değiştirir.

Örnek: chmod +x dosya (çalıştırılabilir yapar).

```
-zsh
clas0512@Adems-MBP ~ % ls -l exception.txt
-rw-r--r-- 1 clas0512 staff 24 Sep 27 14:27 exception.txt
clas0512@Adems-MBP ~ % chmod 777 exception.txt
clas0512@Adems-MBP ~ % ls -l exception.txt
-rwxrwxrwx 1 clas0512 staff 24 Sep 27 14:27 exception.txt
clas0512@Adems-MBP ~ %
```

ps: Çalışan süreçleri listeler.

Örnek: ps aux (tüm süreçleri gösterir).

```
-zsh
clas0512@Adems-MBP ~ % ps
  PID TTY          TIME CMD
 1937 ttys001  0:00.02 /bin/zsh -il
 2663 ttys002  0:00.31 -zsh
clas0512@Adems-MBP ~ % ps aux
USER          PID  CPU  MEM      VSZ    RSS    TT  STAT  STARTED    TIME COMMAND
clas0512      1588   36.2  4.1 1601646064 344544  ??  S    1:32PM   28:46.86 /Applications/Discord.app/Contents/Frameworks/Discord Helper (R
e
_windowserver 367   26.2  1.0 411807040 83888  ??  Ss   11:47AM   30:23.72 /System/Library/PrivateFrameworks/SkyLight.framework/Resources/W
clas0512      1580    8.0  0.6 409812848 48480  ??  S    1:32PM   7:09.06 /Applications/Discord.app/Contents/Frameworks/Discord Helper (GP
_coreaudioid  391    6.9  0.2 409697120 17104  ??  Ss   11:47AM   7:25.09 /usr/sbin/coreaudioid
_cmiodelassistants 508    6.5  0.1 408279952 8448  ??  Ss   11:47AM   5:00.25 /usr/sbin/applh13camerad
clas0512      2659    6.1  1.0 410120384 86432  ??  S    2:17PM   0:49.10 /Applications/ITerm.app/Contents/MacOS/ITerm2
clas0512      2361    4.0  2.6 410420736 218272  ??  S    2:02PM   3:41.44 /Applications/Adobe Acrobat DC/Adobe Acrobat.app/Contents/MacOS/
clas0512      1656    1.6  0.1 409258992 9584  ??  Ss   1:15:73 /System/Library/Frameworks/VideoToolbox.framework/Versions/A/XPC
clas0512      3262    1.5  0.3 408214096 27664  ??  S    2:45PM   0:00.12 /System/Library/Frameworks/CoreServices.framework/Frameworks/Met
clas0512      1637    1.3  0.1 408916816 11648  ??  Ss   1:34PM   1:23.82 /System/Library/Frameworks/VideoToolbox.framework/Versions/A/XPC
clas0512      2378    1.2  0.1 410019776 10176  ??  S    2:03PM   0:43.06 /Applications/Adobe Acrobat DC/Adobe Acrobat.app/Contents/Frame
clas0512      807    1.2  1.3 410371440 106080  ??  S    11:47AM   1:48.85 /Applications/Spotify.app/Contents/MacOS/Spotify --autostart
```

kill: Bir süreci sonlandırır.

Örnek: kill PID (PID, sürecin kimlik numarasıdır).

```
clas0512@Adems-MBP ~ % ps
PID TTY          TIME CMD
1937 ttys001    0:00.02 /bin/zsh -il
3429 ttys002    0:00.05 -zsh
3551 ttys003    0:00.02 -zsh
clas0512@Adems-MBP ~ % kill 3551
clas0512@Adems-MBP ~ % ps
PID TTY          TIME CMD
1937 ttys001    0:00.02 /bin/zsh -il
3429 ttys002    0:00.05 -zsh
3551 ttys003    0:00.02 -zsh
clas0512@Adems-MBP ~ % kill -9 3551
clas0512@Adems-MBP ~ % ps
PID TTY          TIME CMD
1937 ttys001    0:00.02 /bin/zsh -il
3429 ttys002    0:00.05 -zsh
```

force

ssh: Uzak bir sunucuya bağlanır.

```
clas0512@Adems-MBP ~ % ssh clas0512@localhost
(clas0512@localhost) Password:
Last login: Wed Sep 27 16:19:22 2023 from ::1
.
..
...
clas0512@Adems-MBP ~ % exit
Connection to localhost closed.
clas0512@Adems-MBP ~ %
```

tar: Dosyaları sıkıştırır veya arşivler.

Örnek: tar -czvf arşiv.tar.gz dosya1 dosya2 (dosyaları sıkıştırır ve arşivler).

```
clas0512@Adems-MBP ~ % ls
Applications  Library      Qt
Creative Cloud Files  Movies      downloadtemp
Desktop        Music        exception.txt
Documents      Pictures     ros_catkin_ws
Downloads      Public       try.txt
clas0512@Adems-MBP ~ % tar -cf try.tar try.txt
clas0512@Adems-MBP ~ % ls
Applications  Movies      exception.txt
Creative Cloud Files  Music      ros_catkin_ws
Desktop        Pictures    try.tar
Documents      Public      try.txt
Downloads      Qt          tryAndExcp.tar.gz
Library        downloadtemp
clas0512@Adems-MBP ~ % tar -czvf tryAndExcp.tar.gz try.txt exception.txt
a try.txt
a exception.txt
clas0512@Adems-MBP ~ % ls
Applications  Movies      exception.txt
Creative Cloud Files  Music      ros_catkin_ws
Desktop        Pictures    try.tar
Documents      Public      try.txt
Downloads      Qt          tryAndExcp.tar.gz
Library        downloadtemp
clas0512@Adems-MBP ~ %
```


df: Dosya sistemi kullanımını gösterir.

```
-zsh
clas0512@Adems-MBP ~ % df
Filesystem      512-blocks    Used Available Capacity iused   ifree %used    Mounted on
/dev/disk3s1s1  478724992 17902840 32323568    36% 356050 161617840    0% /
devfs           397         397         0    100%   688         0    100% /dev
/dev/disk3s6    478724992 2097320 32323568     7%    1 161617840    0% /System/Volumes/VM
/dev/disk3s2    478724992 9939136 32323568    24% 1008 161617840    0% /System/Volumes/Preboot
/dev/disk3s4    478724992  4776    32323568     1%   44 161617840    0% /System/Volumes/Update
/dev/disk1s2    1024000    12328   988176     2%    1 4940880     0% /System/Volumes/xarts
/dev/disk1s1    1024000    12592   988176     2%   23 4940880     0% /System/Volumes/iSCPreboot
/dev/disk1s3    1024000    1184    988176     1%   50 4940880     0% /System/Volumes/Hardware
/dev/disk3s5    478724992 414626200 32323568    93% 2102555 161617840    1% /System/Volumes/Data
map auto_home      0         0         0    100%    0         0    100% /System/Volumes/Data/home
```

du: Dizin veya dosyaların disk kullanımını gösterir.

```
-zsh
clas0512@Adems-MBP ~ % du
0      ./ros_catkin_ws/src/test/include/test
0      ./ros_catkin_ws/src/test/include
0      ./ros_catkin_ws/src/test/src
24     ./ros_catkin_ws/src/test
32     ./ros_catkin_ws/src
32     ./ros_catkin_ws
0      ./config/iterm2
14272  ./config/StardewValley/Saves/PembeBaklar_347484926
13808  ./config/StardewValley/Saves/abena_347269033
28088  ./config/StardewValley/Saves
28120  ./config/StardewValley
28120  ./config
1960   ./Music/Audio Music Apps/Databases/Tags
16544  ./Music/Audio Music Apps/Databases
0      ./Music/Audio Music Apps/Temp
0      ./Music/Audio Music Apps/Patches/Instrument
0      ./Music/Audio Music Apps/Patches/Output
0      ./Music/Audio Music Apps/Patches/Audio
0      ./Music/Audio Music Apps/Patches
0      ./Music/Audio Music Apps/Key Commands
0      ./Music/Audio Music Apps/Channel Strip Settings/Track
0      ./Music/Audio Music Apps/Channel Strip Settings/Instrument
0      ./Music/Audio Music Apps/Channel Strip Settings/Output
0      ./Music/Audio Music Apps/Channel Strip Settings
```