

1.

(點高, spot height)

GRASS

. GRASS

'site' (vector)

site Grass
가

GRASS

ASCII

1.1 site() (Import) (export)

(Spread sheet) ASCII 가 ,
가 가 .
ASCII (desc. ,
)

X-value1	Y-value1	Z-value1	desc1	3570321	5776988	102.4	Adyer
X-value2	Y-value2	Z-value2	desc1	3571987.3	5776876	110	Airport
X-value3	Y-value3	Z-value3	desc1	3574987	5777987.5	132.2	TTKRoad
.....							

가	,
ASCII	가 (x y)
,	Z
. x	y
' , ' , 가 가 , ' , .	
(Description,)	()
가 ,	GRASS Label

(Import)

\$s.in.ascii

* : s.in.ascii sites=name [input=name] [fs=character|space|tab]

가	가 ,
.	ASCII GRASS
가	GRASS (Sites)

```

, ASCII ( )
(fs) . DOS
DOS - ASCII UNIX - ASCII
:
$ dos2unix file.asc

```

GRASS

```
$ g.list.sites
```

```
mapset
```

(Export)

```
(export) (import)
```

```
$ s.out.ascii> file.asc
```

```
* : s.out.ascii sites=name>
```

```
s.out.ascii sites=name|d.points color=red size=10 type=diamond
```

```

, Location sites( )
mapset sites( ) sites
(description, Label)

```

1.2 Sites - (display)

```

"GRASS monitor" (graphic
window) . "x0" "x7" 8 (monitor)

```

1)

```
(color table)
```

```
(netscape )
```

```
(xv )
```

```
GRASS Monitor
```

```
$ d.mon
```

```
$ d.mon start=x0
```

```
$ d.mon x0
```

```
$ d.mon stop=x0
```

1) d.mon

```
xdriver_24bit link
```

24bit

Xdriver가

```
, /usr/local/grass42/driver/xdriver가
```

(sites) () ,
\$d.sites (site) "X"
\$d.site.labels (site) "X"

(site) , "x" .(?)

\$d.erase
Region (d.erase) ,
가 ,

1.3 (Grass Monitor)

(GRASS Monitor) ,
"d.mon stop=x0"
, GRASS
가
d.erase
, GRASS GRASS
\$d.mon select=x0
(GRASS Monitor)
Location
GRASS (GRASS Monitor)

2. DTM

(Spot Elevation)

2.1

ASCII
ASCII GRASS
ASCII GRASS

Easting	Northing	HeightValue
Easting	Northing	HeightValue
Easting	Northing	HeightValue

X Y Z
.....

(non-floatingpoint) z GRASS Raster
가 (z) (Whole Number) raster
10 , raster
가 가
Unix () 10, 100

```
$ awk '{print $1, $2, $3*10}' file.asc > newfile.asc
```

\$1, \$2 가 , \$3 10
가 , "awk"
(decimals) raster
(Spot Height) 가
- ,
-
-
-
raster () ()
GRASS

\$ s.surf.tps

raster , (interpolation)
가
.
.
- dmin1 : raster 0.5
- zmult : z 1
.
.
- tension : 40 ,
- smooth : 0 ,
- segmax : 40
- npmin : 150 ,
.
가 tension
Spline

raster , raster

GRASS
raster

\$ d.rast rasterfile

raster

\$ g.list rast

raster 가 ,

\$ d.rast.zoom

```

GRASS
가
.
. GRASS zoom - out ( )
( , ). "d.rast.zoom" zoom
가 unzoom . mapset raster
( , ),
. mapset

```

```

$ g.region -d
$ d.erase
d.erase GRASS
가 "g.region"
가

```

2.2 (Spot Heights) (Interpolation)

```

GRASS 가 (module)
raster . (spot height)
ASCII
가 Unix "wc"
, -1
$ wc -l spotheights.asc

```

```

$s.surf.idw in=spotheight out=elevation npoints=<number>

```

```

(input) (GRASS , g.list sites
) , <number> , (out)

```

```

$d.rast elevation

```

DEM

"Kriging"

`$ s.surf.krig`

GRASS
Kriging SURFER(TM) (help-page)

`$ s.surf.tps` (spot height) DEM
(tension)

2.3

`$ s.menu`

3. (Triangulation)

GRASS 가
GRASS4.2.1 가 (v.geom s.geom)

3.1 De launay

`$ s.de launay`
vector

`$ d.vect`
vector

`$ g.list vect`

3.2 Thiessen (Polygons)

Thiessen 가 가
(vector)
(Raster)
ASCII

가

3.2.1 Vector

Thiessen Vector
\$ s.voronoi

3.2.2 Raster

Raster

\$ s.surf.idw in=rainfall out=thiessen npoint=1

(npoint) 1

4.

4.1

cell 0 (sites)
\$ s.to.rast
vector grid(v.mkgrids)
\$ s.medp
Vector Grid 가 가 , sitemap

4.2 (Vector)

\$ s.to.vect

\$ d.vect