



# GRASS

GRASS 가 ,  
GRASS ,  
GRASS ( grass4.1 grass5.0 ),

**Display 1 -** GRASS , Location, Mapset, Database

```
GRASS 4.1
LOCATION : leics_ _ _ _ _ ( list )
MAPSET : username_ _ _ _ ( Mapset)
DATABASE : /home/ grass/ grass4.1/ data_ _ _ _ ( 가 )
<ESC>
<Ctrl-C>
```

Location,  
Mapset, Database  
<ESC> GRASS

Location  
Leicestershire  
Location 가 , leics ,

Mapset . GRASS Mapset  
Location  
가 ,  
location mapset ,  
(User name) .( PERMANENT )  
location 가  
)

DATABASE  
<ESC> GRASS가

GRASS ,

**d.mon start=x0 select=x0**



1 :

가 Display 2

```

: g.region
: >1 ( )

north 322000
west 444000 East 449750
south 316000

grid resolution East-West 50
( ) North-South 50

120 가 115 가

```

```

: d.frame - e

가 B

```

### 1. Shepshed 500m

```

'Shepshed ' 500m
. shepshed 500m
r.buffer , r.reclass
1 , 0

```

```

: r.buffer urban distance=500 output=urbanbuf
r.reclass
: Enter name of data layer to be reclassified
>urbanbuf
Enter name of New RECLASSIFIED map
>urbanbuf2 <ESC>

```

	OLD	NEW
distance from these location	1	0
500m	2	1

TITLE : 500 meter buffer around urban areas

```

                                urbanbuf2
r.buffer                                A B

: r.reclass
:
Enter name of data layer to be reclassified
> roads
Enter name of New RECLASSIFIED map
> main_ roads
<ESC>

                                0
                                OLD  NEW
Motorway                          3    1
'A' roads                         9    1
'B' roads                         11   1
TITLE : Main Roads (Motorway, A and B roads)

A B

: r.buffer main_ roads distance=450 output=main_ roadbuf
r.reclass
: Enter name of data layer to be reclassified
> main_ roadbuf
Enter name of New RECLASSIFIED map
> main_ roadbuf2

                                OLD  NEW
distance from these location      1    0
450m                              2    1

TITLE : 450 meter buffer around main roads.

```

*d.rast*

3. 2°

```
topo
, (Aspect) (slope)가 C 3
: r.slope.aspect elevation=topo slope=slope 1
r.reclass 2° 가 1
. 0가 .
```

**: r.reclass**

: Enter name of data layer to be reclassified

>**slope 1**

Enter name of New RECLASSIFIED map

>**flat**

0 .

	OLD	NEW
0 degree	1	1
1 degree	2	1
2 degree	3	1

**TITLE : Flat Areas (Slope <= 2 degrees)**

*d.rast*

4. 3

. r.reclass 3

가

3

**: r.reclass**

: Enter name of data layer to be reclassified

> **landcov**

Enter name of New RECLASSIFIED map

> **gradeIII**

0

	OLD	NEW
Pasture	6	1
Scrub	7	1

**TITLE : Grade III agriculture land**

*d.rast*

: GIS

가

가

가

2

:

.

가

.

B (Map Algebra)

1

.(1x 1=1)

**: r.mapcalc**

:

mapcalc> sites = urbanbuf2 \* main\_roadbuf2 \* flat \* gradeIII

3 :

5. 2.5

sites

가

```
: r.clump sites output=sites2  
d.rast sites2
```

:

가

```
: r.report sites2 units=hect
```

2.5 ( ) (background)

r.reclass

가

가

```
: r.reclass
```

```
: Enter name of data layer to be reclassified
```

```
>sites2
```

```
Enter name of New RECLASSIFIED map
```

```
>sites3
```

```
<ESC>
```

```
sites2 2.5
```

```
1, 2, 3
```

```
0
```

```
site 2'
```

, "Potential site 1" "Potential

4 :

10m

가  
가

.

,

가

.

,

.

.

,

가

sites3

가

.

GRASS

(point), (line), ( , polygon)

GRASS

( 가 ).

GRASS

**: r.poly input=sites3 output=vect\_ sites**

r.poly sites3 vect\_sites  
vect\_sites (node) (line)  
가  
v.support vect\_sites  
(v. )

**: v.support map=vect\_ sites options=build**

**: d.erase**

**d.vect vect\_ sites**

가

vect\_sites

. v.area

: v.area map=vect\_sites

:

Buttons:

Left : get area/perimeter

Middle : quit this

Right : get area/perimeter

가

가

Display 5

y

N x (E)

, 가

Display 5

d.what.rast

: d.what.rast map=sites3

Display 5

	X (E)	Y (N)
--	-----	-----
--	-----	-----
--	-----	-----
--	-----	-----
--	-----	-----

:

d.what.rast



가

,

가

,

가

site

가

가

*g.list*

*d.rast - o*  
*site*

*d.his. d.label, d.scale*

*g.manual*

*r.poly* (

), *r.line* (

), *r.contour* (

)

*v.support*

GRASS

가

(1) 2 ,  
가? 가?

(2) . 가 가?  
가? ,  
가?

(3) 2 r.mapcalc (\*) (+)  
가? 가?  
가 ?

(4) , 가 (acceptable) (not acceptable)  
가 가  
.  
.  
1000m ,  
가 가?

```
g.list
.PETMANENT
mapset
g.remove
g.remove
```

```
: d.mon stop=x0
```

```
GRASS
```

```
: exit
```

```
: shall the mapset <username> be saved? 가?
```

```
>y
```

```
( n )
```

```
Do you wish to selectively remove date files ?
```

```
가 ?
```

```
>y
```

```
1. raster files ( )
```

```
> 1
```

```
( )
```

```
<ENTER><ENTER>
```

```
Good bye from GRASS ?
```

```
" ."
```