9 How to organize files and directories.
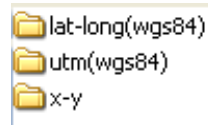
Storage of GRASS data:

The data loaded to GRASS are stored under the directory:
　　　　C://cygwin/home/your_account_name/grass_database
For the examples,
　　　　C://cygwin/home/yokoi/grassdata
Its subdirectories contain the files for the LOCATIONs.

　　　　📁 lat-long(wgs84)
　　　　📁 utm(wgs84)
　　　　📁 x-y

Don't conduct anything to the files and directories using file manager softwares
except erasing or back-uping LOCATION entirely.
The operations must be done using GRASS command or its GUI.

Back up can be done by copying the subdirectory grass_database or those for
individual LOCATIONs to other media using file manager, or by back-uping them
using the usual back up tools for MicroSoft Windows.
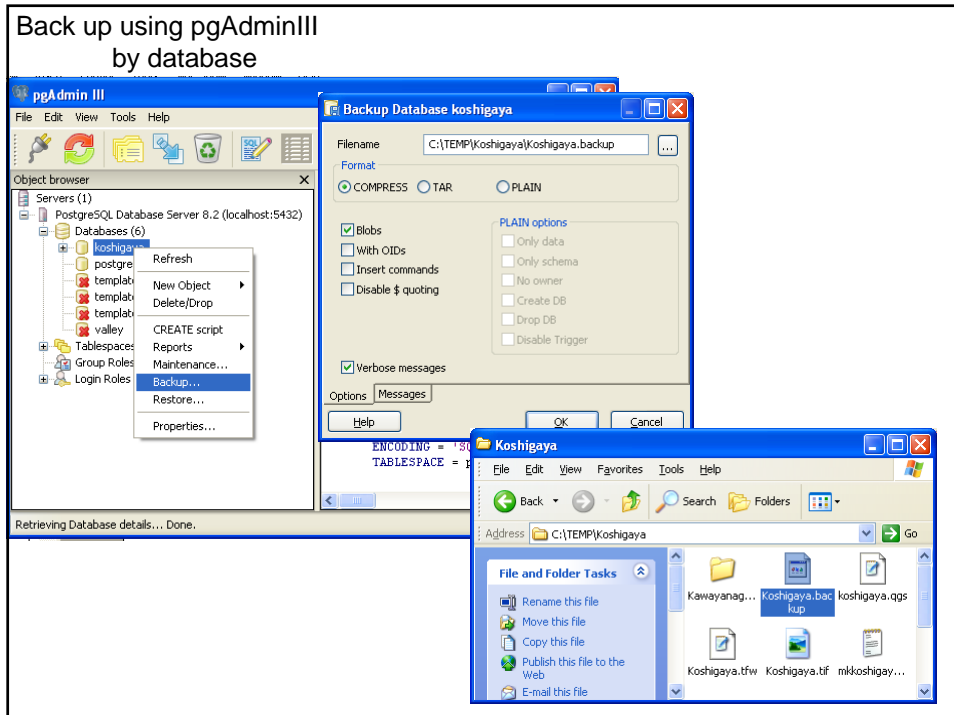
Storage of PostgreSQL data:

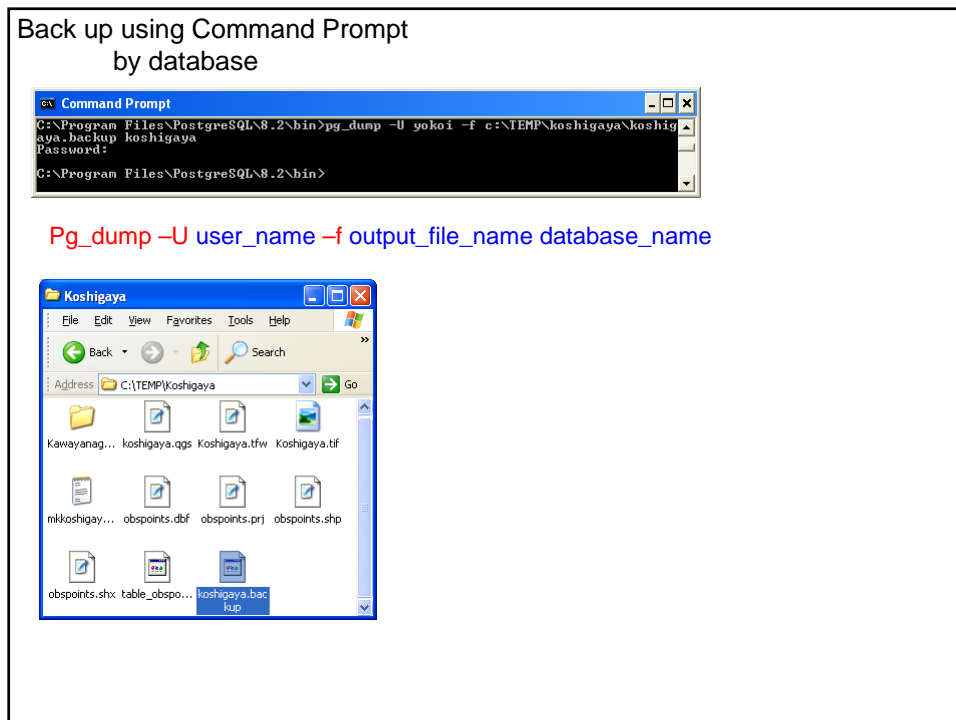The data loaded to PostgreSQL are stored under the directory:
C:¥Program Files¥PostgreSQL¥8.2

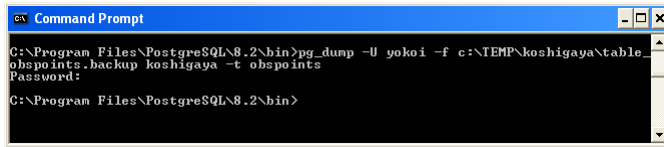Don't conduct anything to the files and directories using file manager softwares.
The operations must be done using PostgreSQL Command Prompt or pgAdminIII.

An alternative way is to export the tables to Shape files.

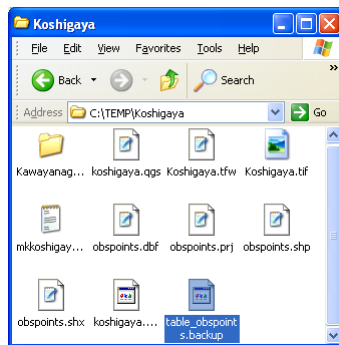Back up using pgAdminIII
         by database

Back up using pgAdminIII
      by table

Back up using Command Prompt
      by database

Pg_dump –U user_name –f output_file_name database_name
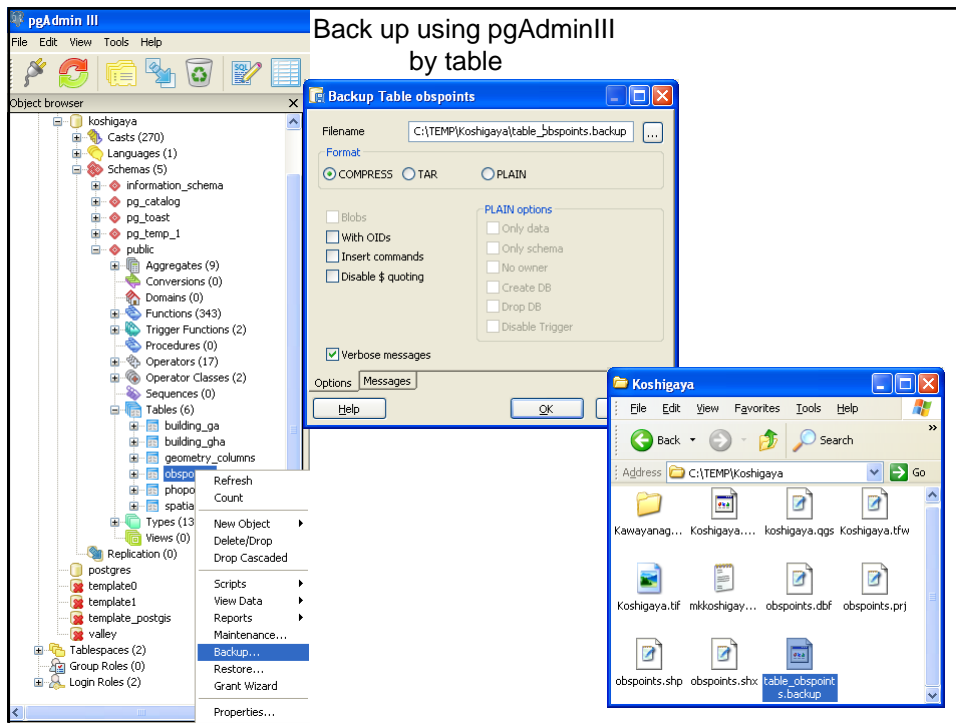
Back up using Command Prompt
        by table

```
Command Prompt                                                    _ □ ×

C:\Program Files\PostgreSQL\8.2\bin>pg_dump -U yokoi -f c:\TEMP\koshigaya\table_
obspoints.backup koshigaya -t obspoints
Password:

C:\Program Files\PostgreSQL\8.2\bin>
```

Pg_dump –U user_name –f output_file_name database_name table_name

```
Koshigaya                                                    □ ■ ×

File   Edit   View   Favorites   Tools   Help                       »

Back ▼          ↑         Search

Address  C:\TEMP\Koshigaya                          ✔  → Go

Kawayanag...  koshigaya.qgs  Koshigaya.tfw  Koshigaya.tif

mkkoshigay...  obspoints.dbf  obspoints.prj  obspoints.shp

obspoints.shx  koshigaya....  table_obspoint
                               s.backup
```

Storage of QGIS data:

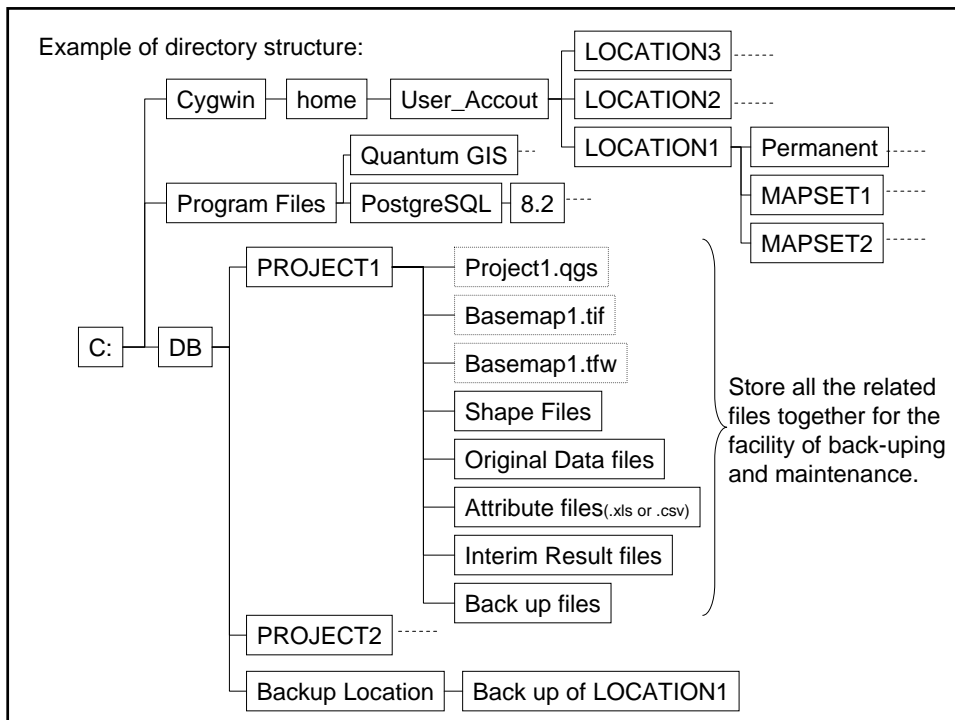QGIS does not store data in itself. The data loaded are actually linked from:
• Raster (e. g., GeoTiff) & Vector (e. g., Shape) data files,
• PostGIS layers (tables of PostgreSQL database),
• GRASS Raster & Vector maps.

When a project of QGIS is saved, the saved project file *.qgs only contains the information from where the files, layers and maps are linked, and the information how they are set in QGIS.

Project file *.qgs is path specific. Once directory structure is changed old *qgs files can not load necessary information anymore.

It is recommendable to set a directory structure for the QGIS files when the task is started and never change it.

All the names of directory, files etc. shall be set as short as possible. In some cases, full path name has to be written within the limited character numbers.

Example of directory structure:

Cygwin — home — User_Accout

LOCATION3 ------
LOCATION2 ------
LOCATION1

Quantum GIS ---
Program Files — PostgreSQL — 8.2 ----

Permanent ------
MAPSET1 ------
MAPSET2 ------

C: — DB

PROJECT1

Project1.qgs
Basemap1.tif
Basemap1.tfw
Shape Files
Original Data files
Attribute files(.xls or .csv)
Interim Result files
Back up files

Store all the related files together for the facility of back-uping and maintenance.

PROJECT2 ------

Backup Location — Back up of LOCATION1

The previous slide shows just an example. There can be many alternative ways to organize the files and directories. The important point is to locate the related files not in a scattered way in HD, not in a mixture with other files, but a compactly organized way .