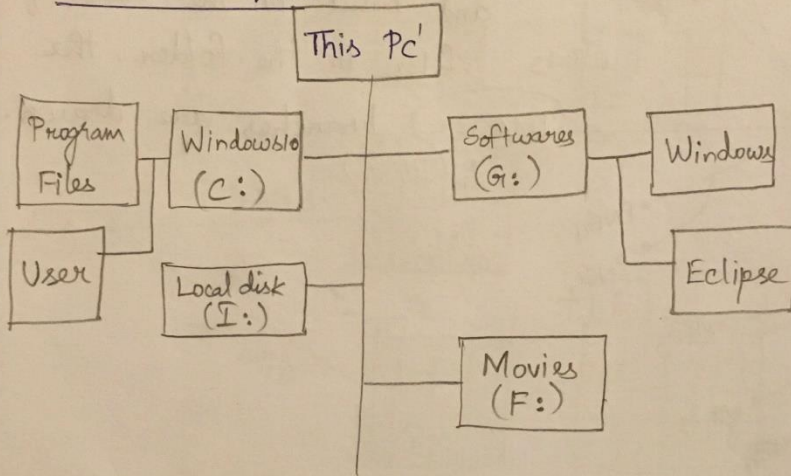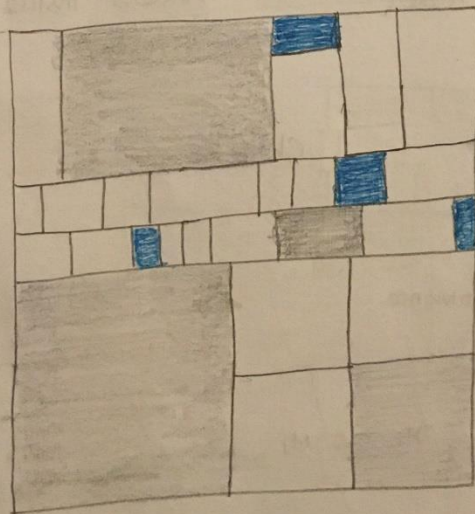1) Structures of File Systems with type & size of file:

1) Scaffold Tree:

Scaffold tree showing the folders inside This' PC's folders.

2) Treemap with Priorities:
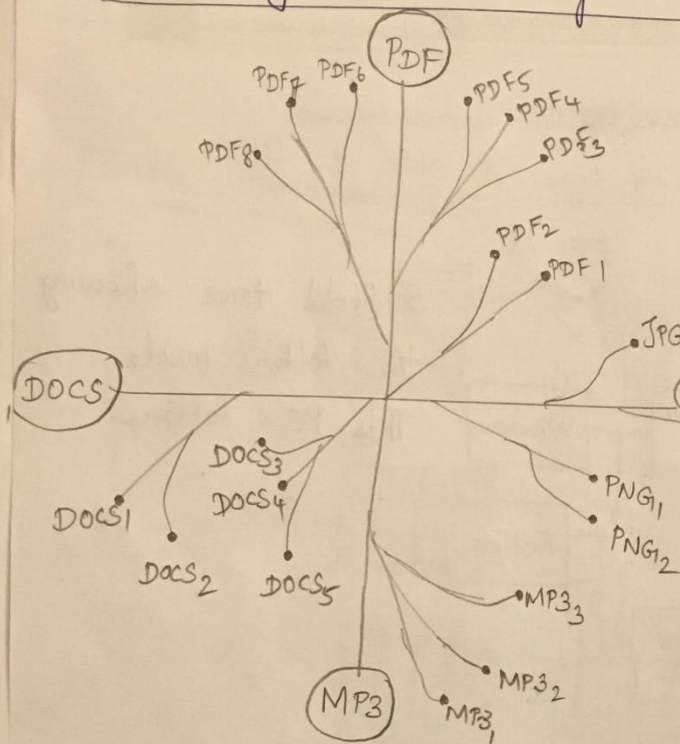

Treemap design showing the view of the file system with the shaded area having large & small size of files.
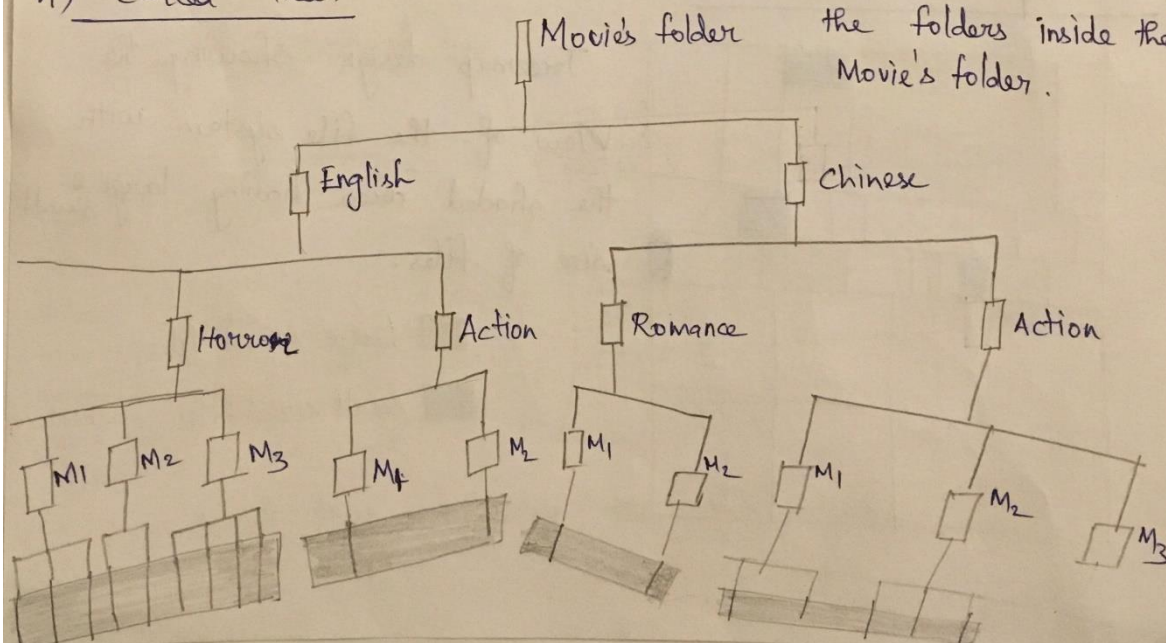
◼ Large sized files
◼ Small sized files

3) Non-Orthogonal Planar Straight line grid:

PDF7 PDF6 (PDF)
PDF8   PDF5
          PDF4
          PDF3

          PDF2
          PDF1

          JPG3
(DOCS)   (IMAGES)
              JPG2 (JPEG)
DOCS3   JPG1
DOCS1 DOCS4
              PNG1
DOCS2 DOCS5 PNG2

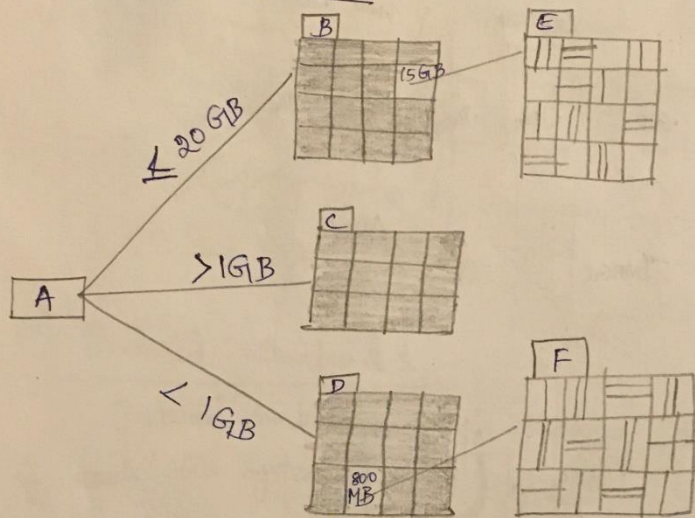   MP3_3
              MP3_2
(MP3) MP3_1

Graph showing 4 different file formats (PDF, Docs, images, MP3) and based on the count of files in the folder, the branches are drawn.
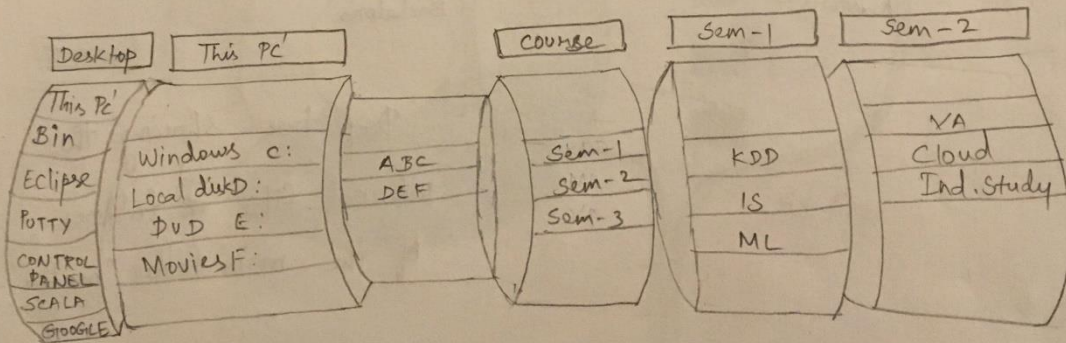
4.) Curled Tree:

Movie's folder

English   Chinese

Horror Action   Romance   Action

M1 M2 M3 M4 M2 M1 M2 M1 M2 M3

Curled tree showing the folders inside the Movie's folder.
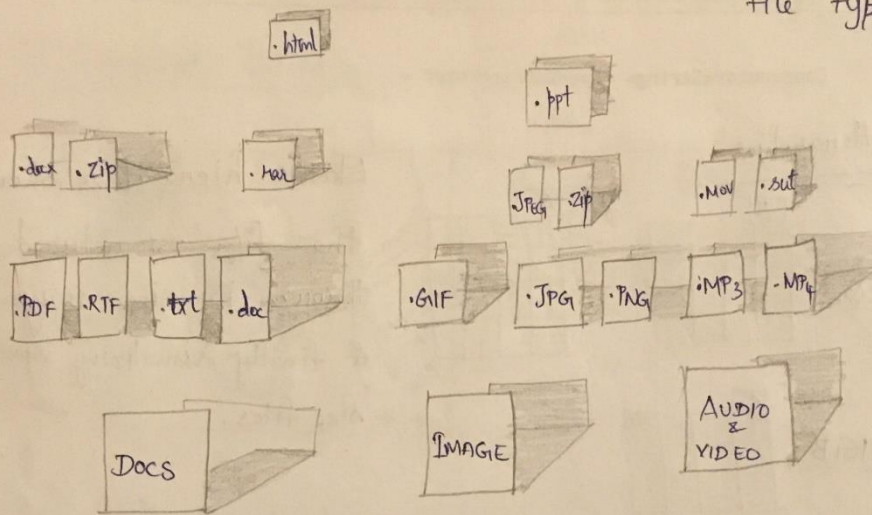
5) Elastic Hierarchies

Elastic hierarchies showing the files structured through its size range & finally visualizing specific size files.
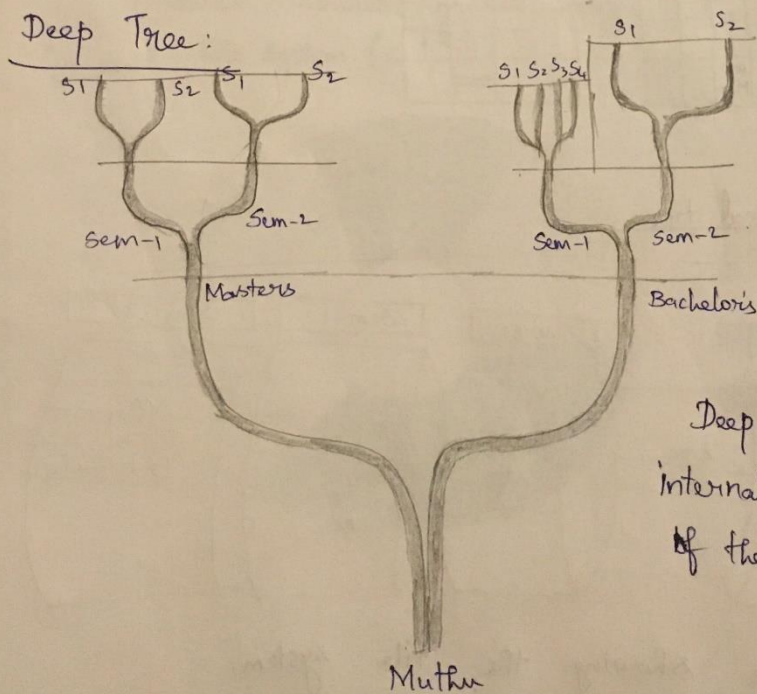
6) Collapsible cylindrical tree.

Cylindrical tree showing the file system.

7) 3-D Tree:

.html

.ppt

.docx .zip   .rar

          JPEG zip   .Mov .sut

.PDF .RTF .txt .doc   .GIF .JPG .PNG   .MP3 .MP4

DOCS   IMAGE   AUDIO
                                   &
                                 VIDEO

8) Deep Tree:

S1   S2 S1   S2   S1   S2

                          S1 S2 S3 S4

Sem-1   Sem-2   Sem-1   Sem-2

        Masters   Bachelor's

Muthu

Deep tree showing the
internal files and folders
of the main folder "muthu".

9) Hexagonal Tiling:

⊞ •Mov	▨ •MP3 ☐ •txt
⊟ •PDF	▤ •xml ▨ •html
▨ •doc	★★ •py
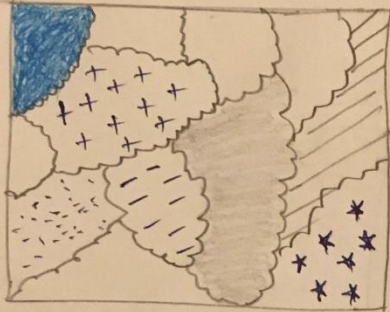
Hexagonal tiling showing the
file system of various file types

(10) Ordered Sunburst:

Ordered sunburst graph showing the percentage of files
in each file system (C:, D:, E:, F:)

☐ C:

▨ D:

▨ E:

▨ F:

2) Family tree structure :

1) Interactive Exploration – Space Tree :

Space tree showing the family structure

```
                        ┌──────────────┐
                        │  My Family   │
                        └──────┬───────┘
              ┌────────────────┴──────────────────┐
        ┌───────────┐                       ┌──────────────┐
        │  SAMY &   │                       │ SHANMUGA &   │
        │  MUTHU    │                       │   MUNI       │
        └─────┬─────┘                       └──────┬───────┘
```
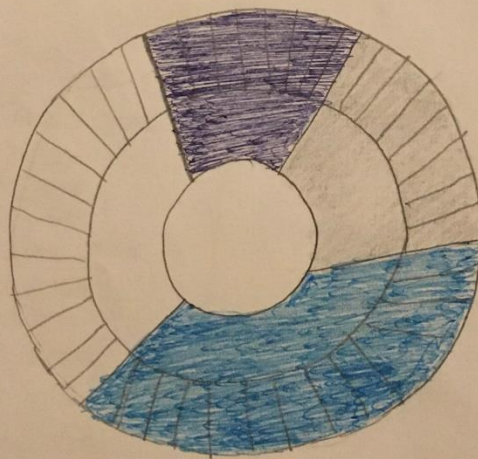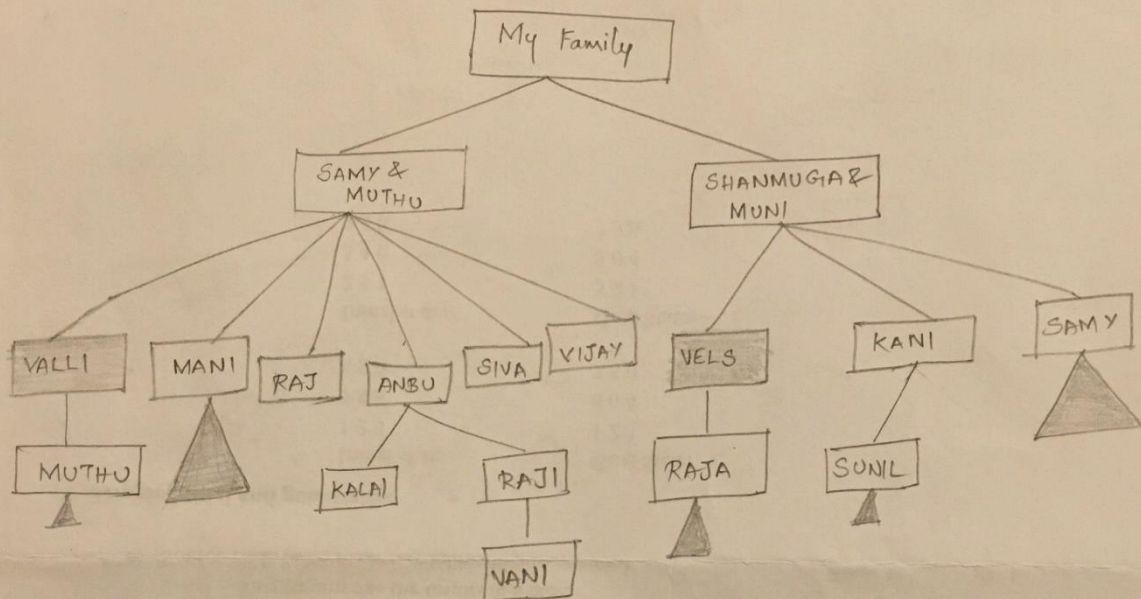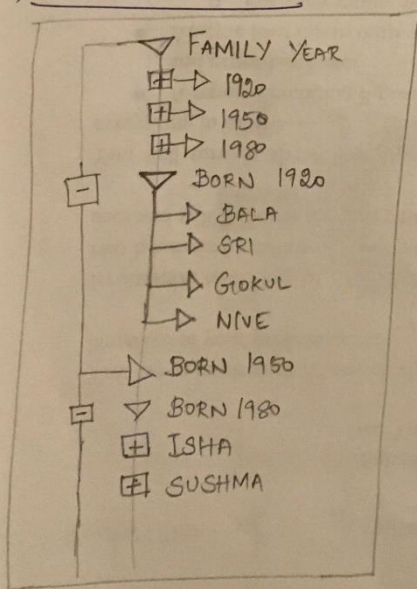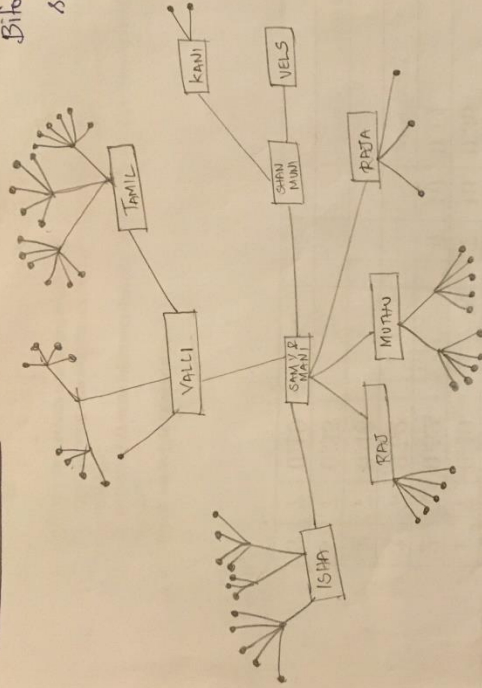
VALLI	MANI	RAJ	ANBU	SIVA	VIJAY	VELS	KANI	SAMY

MUTHU		KALAI	RAJI	RAJA	SUNIL

VANI

2) Smart tree :

```
┌─────────────────────────────┐
│  ▽ FAMILY YEAR              │
│  ⊞▷ 1920                    │
│  ⊞▷ 1950                    │
│  ⊞▷ 1980                    │
│ ⊟ ▽ BORN 1920              │
│     ▷ BALA                  │
│     ▷ SRI                   │
│     ▷ GOKUL                 │
│     ▷ NIVE                  │
│   ▷ BORN 1950              │
│ ⊟ ▽ BORN 1980              │
│  ⊞ ISHA                    │
│  ⊞ SUSHMA                  │
└─────────────────────────────┘
```
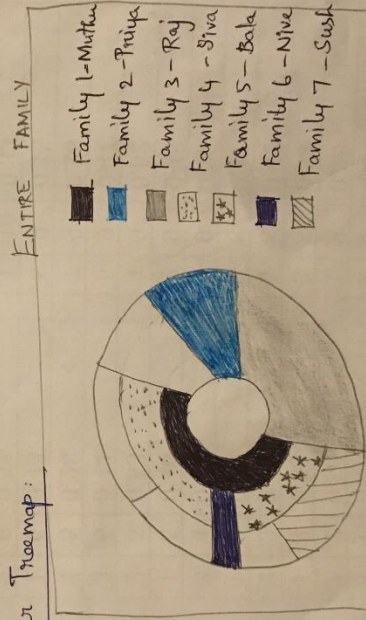
Smart tree showing the family members ~~becomes~~ born on the specific years.

3) Bifocal Tree :

Bifocal tree
showing the
family structure

4) Polar Treemap :

ENTIRE FAMILY

Family 1 – Muthu
Family 2 – Priya
Family 3 – Raj
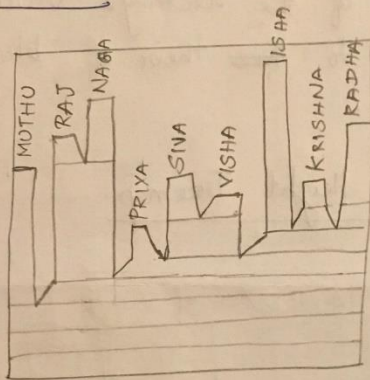Family 4 – Siva
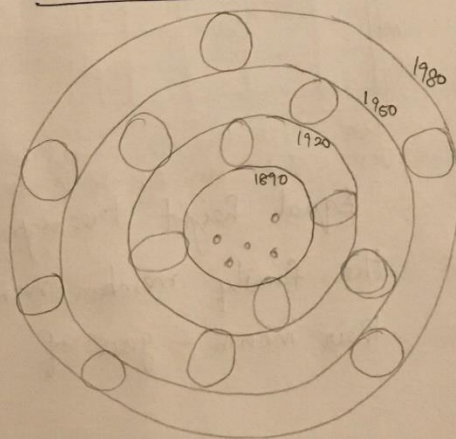Family 5 – Bala
Family 6 – Nive
Family 7 – Sush

Polar treemap showing the family entirely which
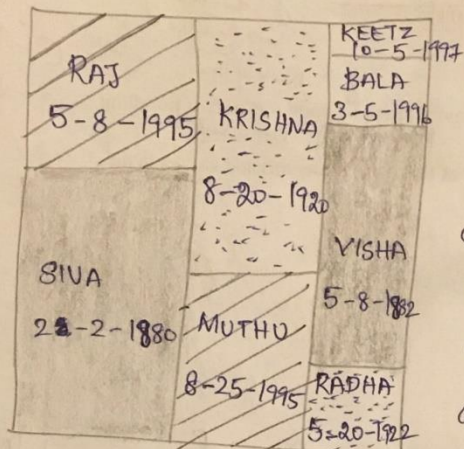comprises of 7 families.

5) Castles :

Castles graph showing different family members in ~~differ~~ many dimensions.

6) ~~Shamses~~ Shamseh tree :

Shamseh tree showing the layers of hierarchy which follows year of birth. Inner circle is 1890. Second circle is 1920. Third is 1950. Fourth is 1980.

7) Columnar Tree map:

RAJ
5-8-1995
KRISHNA
8-20-1920
SIVA
25-2-1880
MUTHU
8-25-1995
KEETZ
10-5-1997
BALA
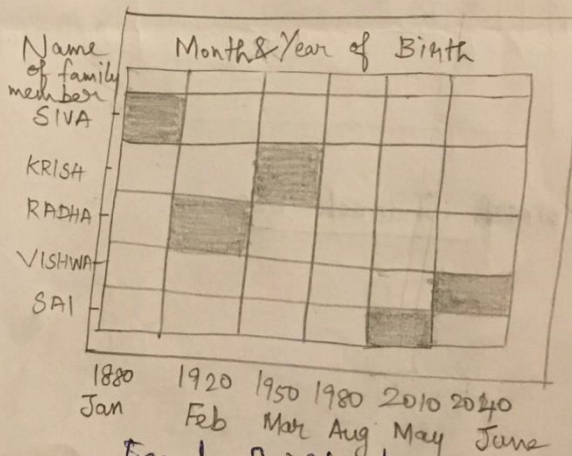3-5-1996
VISHA
5-8-1882
RADHA
5-20-1922

Columnar tree map showing the family members along with their date of birth. The sections which have the same shade are couples. The size of the rectangle varies according to ~~this~~ their of birth.
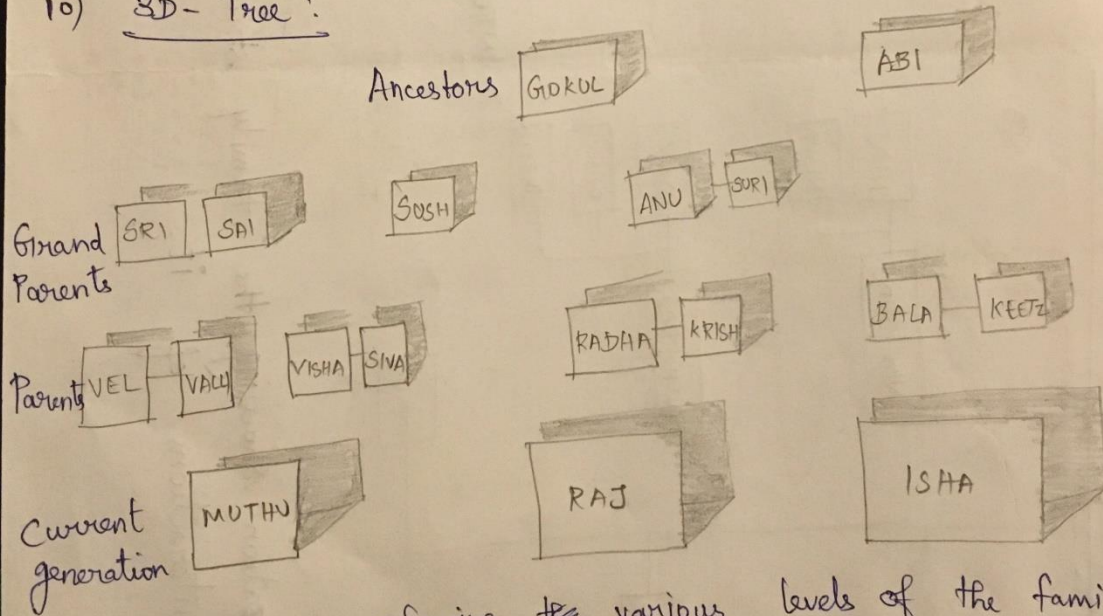
8) Hexagonal Tiling :

1880 1920 1950 1980 2010
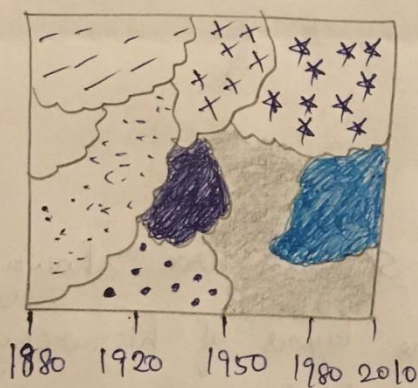
Hexagonal tiling showing the year of birth ~~with~~ wise family groups in my entire family.

9) Equal Height Treemap.

Name of family member | Month & Year of Birth
SIVA
KRISH
RADHA
VISHWA
SAI

1880   1920 1950 1980 2010 2040
Jan   Feb   Mar Aug May June

Equal height treemap showing the family member name and their month & year of birth.

10) 3D-Tree :

Ancestors GOKUL   ABI

Grand SRI SAI   SUSH   ANU SURI
Parents

Parents VEL VALLI VISHA SIVA   RADHA KRISH   BALA KEETZ
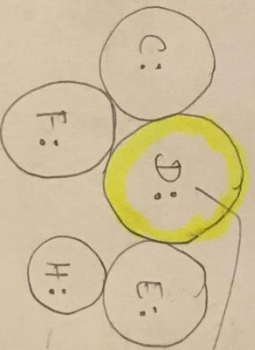
Current   MUTHU   RAJ   ISHA
generation

3-D tree showing the various levels of the family
tree from anchestors to current generation.
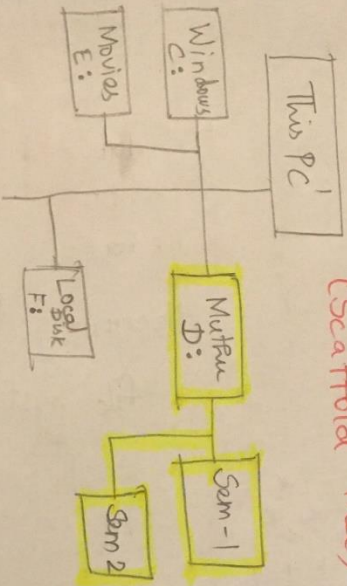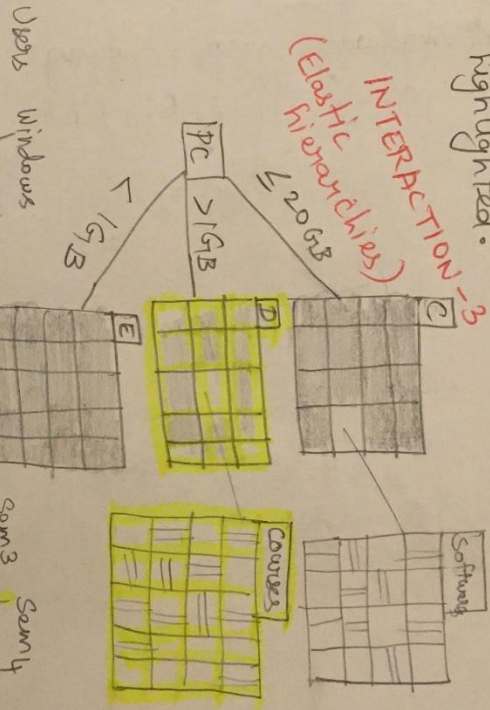
VISUALIZATION
AND
INTERACTIONS

One visualization, 4 interactions.

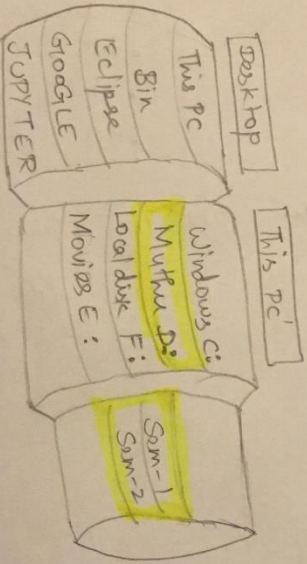If D: is selected, then in the remaining 4 designs, the data related to D: will get highlighted.

INTERACTION-1
(Scaffold Tree)

This PC'

Windows C:

Movies E:

Mutru D:

Local F:

Sem-1

Sem 2

INTERACTION-2
(Collapsible cylindrical tree)

Desktop

This PC

JUPYTER

GOOGLE

Eclipse

Bin

This PC

Windows C:

Mutru D:

Local disk F:

Movies E:

Sem-1

Sem-2

INTERACTION-3
(Elastic hierarchies)

PC

<20GB

>1GB

<1GB

C

D

E

Courses

Software

INTERACTION-4
(Deep Tree)

Users

Windows

Software

C:

D:

Courses

Sem1 Sem 2

Sem3 Sem 4

PC