

Ralf D. Fabian

ralf.fabian@ulbsibiu.ro



"Lucian Blaga" University of Sibiu, Faculty of Engineering - 2011 -

## **Experimental model**

- Visual Pattern, why?
- Every service is performed by a live entity,
  - if biological human
  - if virtual agent
- apply BR to simplify visual complexity to be able to transmit only what's needed
- focus on user
- level of granularity
- feature relevance to the target

### **Experimental model**

Dialog

Features of the interest area (technical variables)

- location of the interest area

- precision for the interest area

```
switch(client){
```



```
case of: client_1
```



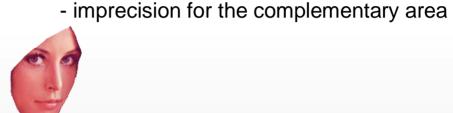
```
case of: client_2
```



case of: client\_n

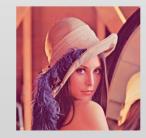


default:









```
switch(CLIENT)
     case: CLIENT 1
                                       → Dialog_1 : Dialog
            call(CLIENT_1)
             if (dlg result == 0) then
                call(PROCESSING_1)
             else
                think about bankruptcy()
     case: CLIENT 2
                                       ▶ Dialog_2 : Dialog
            call(CLIENT 2)
             if (dlg_result == 0) then
                call(PROCESSING_2)
             else
                think_about_bankruptcy()
     case: CLIENT_N
                                       → Dialog_N :
                                                    Dialog
             call(CLIENT_N)
             if (dlg_result == 0) then
                call(PROCESSING_N)
             else
                think_about_bankruptcy()
      case: OTHERWISE
            do_defaults()
```

```
Common Global Memory

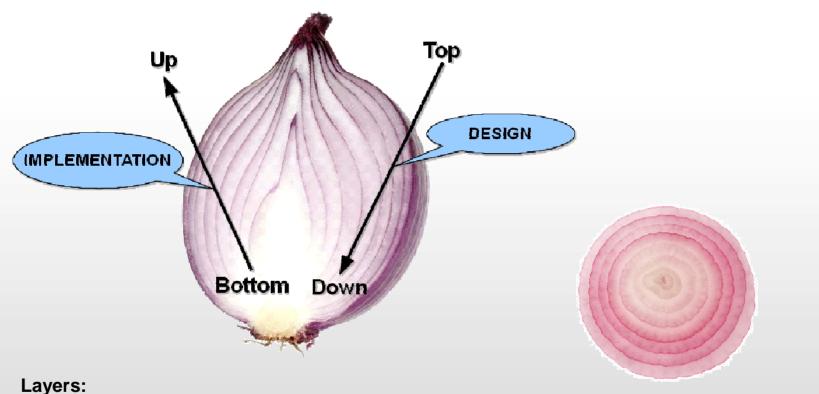
// TO DO List
```

```
switch(PROCESSING)
   case: PROCESSING 1
       // Lenas's mother Requirements/specifications/features
        foreach( requirement ) // from Dialog_1
               do number crunching(image, requirement)
   case: PROCESSING 2 // Dumy processing
        do_number_crunching(image, requirement)
   case: PROCESSING_N // Detective
                          // from Dialog_N
        foreach( requirement )
               do_number_crunching(image, requirement)
   case: OTHERWISE // oioi
```

```
Common Global Memory

// TO DO List
--
```

# Onion principle - Successive prototyping



- 1 general dialog
- 2 dialog 1 ... dialog n
- 3 adding processing for the dialog, processing 1... processing n
- 4 for a dialog k, have the sequence dialog + specific dialog for case k
- 5 on processing, a general processing

# Onion principle - Successive prototyping



- Its exterior gives no clue as to the complexity of the layers within. It is at the same time simple and complex.
- There is no magic number for layers and slices.
- The important thing to do is to work with the level of detail that is useful: the level that works.
- "big picture" person who would rather limit the details - prefer to work with the short list of "essentials".
- detail minded person who likes to analyze the inner workings of everything - may find the long complex list more attractive.

### **Conclusions and future work**

- Precision is against nature and the opposite of precision is fuzziness.
- Ever more services have to be provided in line with the "just in time" (JIT) paradigm;
- Developing applications for JIT services implies both bounded rationality as fact of life and artificial intelligence as powerful IT instrument.
- BR as response to JIT
- Dialog evolution from textual to non textual/multimodal

