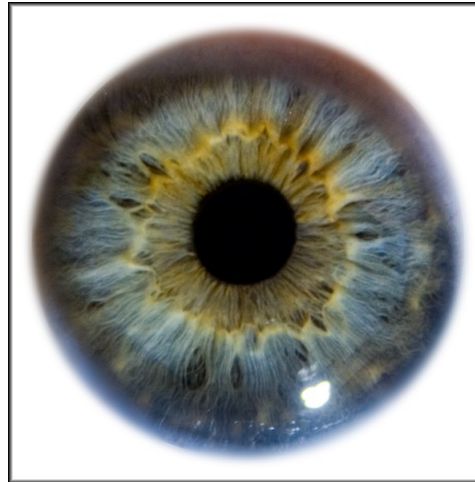




Université de Caen
Basse-Normandie

Iris recognition



Introduction

- Set in the category of Biometrics
- Creation of a detecting program for specificities of Iris

I Iris Recognition

- 1. Context
- 2. Aim
- 3. Tools

II Different steps of the project

- 1. Detecting
- 2. Extracting
- 3. Analysing
- 4. Matching

1. Context

- Unique to each individual
- Similar to fingerprints
- Already used for identification
- Security issue

2. Aim

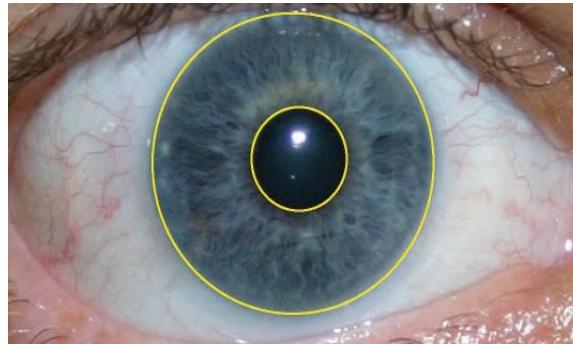
- Analysing the Iris
- Extracting properties
- Comparing distances

3. Tools

- Testing Software : Pandore
- Language C++
- Library : CImg

1. First step : Detecting

- Detecting the Iris zone



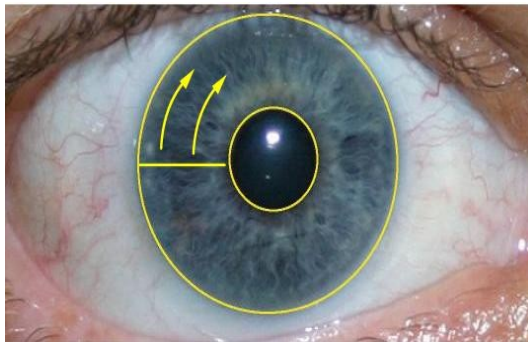
2. Second step : Extracting

- Extracting the zone

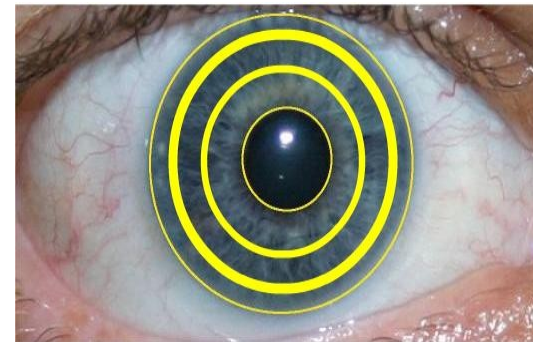


Unrolled Iris

- Two ways to do it



Linear unrolling Iris



Circle unrolling Iris

3. Third step : Analysing

- Processing data
- Analysing



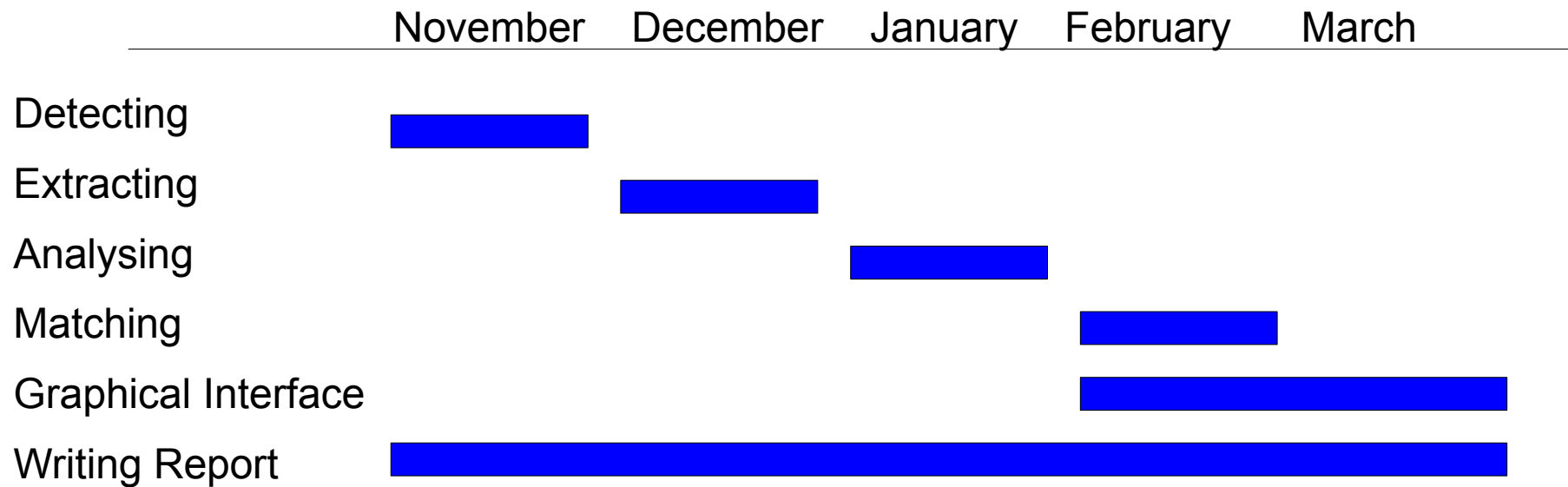
Image to be analysed

4. Final step : Matching

- Working on corpus
- Comparing distances
- Building a Graphical interface

Conclusion

- Security and identification tool
- Can be process in many ways
- Next evolution of biometric identification



Any questions?