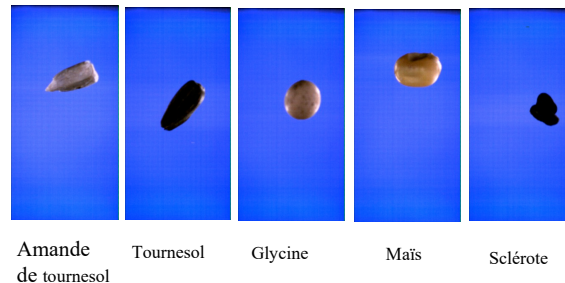


Data for multitable demonstration

A device for the acquisition of numerical images of seeds has been developed



Example of images of seeds

The seeds were falling in front of a CCD camera, and numerical images were acquired during the fall. .

90 image features were computed from each image. These features describe the shape, the color and the image-texture of the seeds.

The test dealt with 838 images of seeds, which can be gathered according to the species, in 5 groups.

N°	code	Nature	Effectif
1	am	amande de tournesol	92
2	gl	glycine	188
3	ma	maïs	189
4	sc	sclérote	186
5	to	tournesol (entier)	183

amande de tournesol= sunflower almond
glycine=wisteria (?)
maïs=maize;
sclérote=sclerot (?)
tournesol (entier)=whole sunflower kernel

These features are eventually gathered in 5 data tables related to

- The shape features (*morpho*)
- The color (*xcolor*)
- The image-texture assessed by 3 methods, namely the gray-level histogram difference (*histtexture*)
- The run length method (*runtexture*)
- The cooccurrence method (*occurtexture*)

The splitting of the variables is given in “*variable.txt*”

Note: The file X.CSV used as example here has been obtained by

Vincent Murraciale

in the course of his PhD thesis

Définition et mise en place d'un automate d'extraction en temps réel des caractéristiques physiques des semences sèches

obtained on 29 sept. 2009 at ANGERS (France) University.

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