



## DGtal Project Management

<http://liris.cnrs.fr/dgtal>

David Coeurjolly

# DGtal team

## Editorial Board

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- Overall project management (discussions, objectives)
- Prepares releases
- Organises DGtal meetings
- Board members are updated during DGtal meetings

*David Coeurjolly, Jacques-Olivier Lachaud*

## Package Managers

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- In-charge of the package design (main concepts, relationships with other packages. . . )
- Organise and check package contributions (aka modules)

## Contributors

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- Add new functionalities to DGtal (classes+concept+test files+documentation) as a new module in a DGtal package

We'd love to also have doc readers, build checkers, testers,...

# DGtal Projects

## DGtal

Main library (classes + unit tests + example programs + documentation files)

## DGtalTools

Command line tools built using DGtal (multigrid shape generators, contour analyzers, file format conversion,...)

## DGtalScripts

Scripts and template files to generate new classes/unit tests files

# How to submit a new feature ?

- 1 Contact the associated Package Managers (or the Editorial board)
  - to get help on the package design and on DGtal API
  - to interact with the package design if necessary
- 2 Prepare your module (classes+tests+doc) and submit your module as github “pull-request”
- 3 Available in the next release (at least, every 6 months)

For a new tool in DGtalTools, contact the DGtalTools project manager (cf web site)

## DGtal help desk:

- DGtal devel mailing lists (cf web site)
- github pull-request/issue mechanisms when discussing on the code

# DGtal folder structure $\Leftrightarrow$ Packages

```
arithmetic/  
  base/ Tools (trace, timer, concept checking tools, basic functors...)  
  geometry/ Geometrical package  
    curves/ algorithms/data structures on  $1 - d$  structures in dimension  $n$   
    surfaces/ algorithms/data structures on  $(n - 1) - d$  structures in  
              dimension  $n$   
    volumes/ algorithms/data structures on  $n - d$  structures in dimension  $n$   
    helpers/ ...  
    tools/ ...  
  helpers/  
  images/  
  io/ IO Package  
    boards/  
    viewers/  
    colormaps/  
    readers/ ...  
    writers/ ...  
  kernel/ Kernel  
    domains/  
    sets/  
  math/  
  shapes/  
  topology/
```

## DGtalTools folder structure

2dContourTools/ image to contour, ...  
    estimators/ multigrid evaluation of DGtal estimator  
shapeGenerator/ generate multigrid shape  
    voltools/ CLI tools to handle .vol files  
    volumetric/ DT, connected component, homotopic thinner....

### Idea

- Weaker structure compared to DGtal
- Tools focused on a specific analysis
- Good spot to test some ideas before promoting them to DGtal

# Websites

<Demo website, github, cdash>