DGtal Project Management

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DGtal team

Editorial Board

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

David Coeurjolly, Jacques-Olivier Lachaud

Package Managers

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

Contributors

- Add new functionnalities 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 ⇔ 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>

Conclusion

Get involved !!

⇒ Give us feedbacks (build issues, bugs, doc readers...)

⇒ Contribute with DGtalTools

⇒ Contribute with DGtal new features