

BUSHFIRE CVS Repository

SP BUSHFIRE Team <sp-bosbrand@cs.uu.nl>
Jelle Herold <jherold@math.uu.nl>

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1 General

If some file can be generated from some other file (compilation, conversion, parsing), it should **not** go into the CVS. *This is very important.* For example, the .eps files in the figures subdirectories of our latex documents are not kept in the repository, because they can be generated from the .dia files. This is to prevent files from getting out of sync. Another (obvious) example would be .class files.

We will put CVS ignores on these files.

1.1 Make

To support this file “generation” we need to use a build system. JCreator can be used for this, and other IDE’s as well, but this will not be automatable. Therefor I suggest we use make, and widespread build system. When you check out the project from cvs it should be possible to build all the “missing” file using just the make command. I will explain this in the meeting.

2 Layout

Please note that the folowing directory structure is below /cvsroot/bushfire/.

2.1 Module docs

```
/docs/  
  /cvs_repository/  
  /functionaldesign/  
    Makefile  
    functionaldesign.tex  
  /figures/  
    someumlfigure.dia
```

```
/specifications/  
/skeleton/
```

All the handwritten \LaTeX documentation should go here, each document in it's own subdirectory. If the document uses figures, those should go the `/bushfire/docs/<document>/figures` directory.

The `.tex` file should have exactly the same name and name of the directory it is in.

It's also important (for the website) that there is a `Makefile` in the `/bushfire/docs/<document>/` directory that allows building a HTML, PDF and Postscript file using the commands `make html`, `make pdf` and `make ps`. The `Makefile` in the `/bushfire/docs/skeleton/` directory does this. The HTML files should go into the `/bushfire/docs/<document>/html/` subdir. the PDF and Postscript file should go into the `/bushfire/docs/<document>/` directory.

2.2 Module bushfire

```
/bushfire/  
  /src/  
    Makefile  
    Simulation.java  
    Training.java  
    /attribute/  
      IntAttr.java  
    /views/  
      IntAttrView.java  
  /world  
    Simulation.java  
  /ctrl  
  /util  
  /fp  
  /simgui  
  /traingui  
/docs/  
/testlab/
```

2.2.1 The `/src/` subdir

This is where the source code will reside. The drivers of the two applications, `Simulation` and `Training`, are in `/bushfire/src/simgui` and `/bushfire/src/traingui/`.

- `/attribute/` Attribute classes.
- `/attribute/views` Swing views on the attribute classes.
- `/world` World foundation.

- /util Utility classes such as Error and Matrix.
- /ctrl Controller package. Might contain more subdirs.
- /fp Fire propagation simulation package (cellular automata).
- /simgui Simulation GUI and related code.
- /traingui Training GUI and related code (ESP).

2.2.2 The /docs/ subdir

Here all the automatically generated documents (doxygen) are stored.

2.2.3 The /testlab/ subdir

This is where all temporary test code is kept, such as examples on how the Attribute classes are used etc.

2.2.4 The /unittests/ subdir

The bushfire unit tests are kept here. All these tests are run using JUnit.

2.3 Module website

This is where all the website code will reside (the stuff that builds the website, pdf files etc) and all static pages. The actual output of this will be kept in the sourceforge www directory, and possibly mirrored on the `students.cs.uu.nl` server.

2.4 Module text_*

All kinds of independently developed test projects, such as the NN/ESP code, pathplanning and firepropagation code. This will be mixed into the main bushfire module asap.

3 License

Because the project falls under the GPL license we should include the following comment in each source file.

```
/*
```

This file is part of the Bushfire project.

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*/

The best location is the top of the file.

4 CVS Keywords

Each file should include the `id` keyword. This makes it easier for us to identify which revision a file is when it is exported out of the repository. The keyword should be put inside the license comment one line below the last line of license text.