

**Manage your Invenio installation  
with quilt or guilt**  
a 5 minute introduction

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# Why those tools?

- Both quilt or guilt exist to keep track your *local* modifications to files (patches) of an *external* software (Invenio).
- That means: save, delete, do, undo, copy, rename, list, import or export.
- They are easier to understand than full-fledged git or other version control software.
- Mental picture: *your* stuff, not *their* development (but you can share them!).

# quilt or guilt?

- quilt is «just» a series of bash scripts that call `diff` and `patch`, with some aid of `awk` and little else.
- guilt reimplements this but on top of git, (re-) using git commands underneath. So you must create first a git repo.
- Both are commonly found in Linux distributions.
- They are not toys. They can handle very large patch sets.

# First time init

```
$ cd  
/your/invenio/in  
stall/dir  
$ quilt init
```

```
$ cd  
/your/invenio/in  
stall/dir  
$ git init  
$ echo "var/ *~"  
>.gitignore  
$ git add -a  
$ git commit  
$ quilt init
```

# A common session

```
$ quilt new fix-  
this-and-that.
```

```
patch (give a name to your patch)
```

```
$ quilt add  
this/file.py (or more  
files)
```

```
$ edit  
this/file.py
```

```
$ quilt refresh  
(commit)
```

```
$ quilt pop (undo)
```

```
$ quilt push (redo)
```

```
$ quilt new fix-  
this-and-that.
```

```
patch
```

```
$ quilt add  
this/file.py
```

```
$ edit  
this/file.py
```

```
$ quilt refresh
```

```
$ quilt pop
```

```
$ quilt push
```

# When Tibor says: try this patch...

It is easy now! Don't fear any longer!

```
$ cd /tmp
```

```
$ wget -O important.patch http://invenio-software/etc.
```

```
$ cd /your/invenio/install/dir
```

```
$ quilt import /tmp/important.patch
```

```
$ quilt push
```

```
$ quilt pop (if it didn't work)
```

# Common pattern

- You mostly work on your current (top of the stack) functionality (patch).
- If you mess it up, you undo (pop) it easily.
- When you need to implement something else, you create a new patch that pushes the older ones down to the stack (history).
- You can always undo (pop) one or all patches to go back to your pristine installation.
- Anything that is file based: bibformat, bibconvert, xsl,...

# A few tutorials

How To Survive With Many Patches, or Introduction to Quilt: <http://www.suse.de/~agruen/quilt.pdf>

Quilt for Debian Maintainers: <http://pkg-perl.alioth.debian.org/howto/quilt.html>

Quilt tutorial: <http://www.shakthimaan.com/downloads/glv/quilt-tutorial/quilt-doc.pdf>

A Guilty Git: <http://kernelpanic.blogspot.com/2007/03/guilty-git.html>