# Design in the command line: Recipes for tasty outcomes

**Manufactura Independente** 

**Ana Isabel Carvalho & Ricardo Lafuente** 

Why?

- fast
- repeatable
- composable
- scriptable
- shareable

# Great for graphic workflows

But hard to get into

Best practice: Document your recipes (shell history is good enough if you're lazy)

### Batch operations with ImageMagick

```
# resize all images in place
mogrify -resize 25% *.png

# create png copies of all jpg files
for f in *.jpg; do convert $f ${f/.jpg/.png}; done

# create a pdf with all the jpegs in this dir
convert *.jpg out.pdf
```

#### exif

# remove all metadata from an image

```
exiftool -all= -overwrite-original *.jpg

# add/replace author metadata
exiftool *.jpg -overwrite-original -artist="Luther Blissett"
```

## Scriptable gradient maps



PREPARANDO

FOTOS DE LA SERRERÍA BELGA

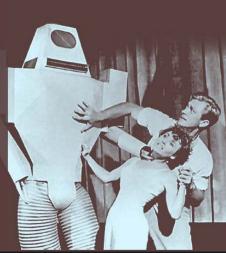
REFERENCIAS

ACERCA DEL TALLER

**FUENTES** 

WORKSHOP BY MANUFACTURA
INDEPENDENTE AT MEDIALAB-PRADO,





# animation with ffmpeg

### Inkscape has a command line mode too

```
# convert SVG to PDF
inkscape poster.svg --export-filename=poster.pdf
```

there's lots of options, run inkscape --help

# pdftk

# merge many PDF files into one
pdftk \*.pdf cat output all.pdf

### Booklet scripts with podofoimpose

```
# turn an A5 pdf into an A4 booklet ready for folding+stapli
booklet-impose-a5 source.pdf
```

```
# get the total number of pages
booklet-get-page-total source.pdf
```

# insert an A5 blank page at page 3
booklet-insert-blank-page source.pdf a5 3

This CPU waits for a different one
Return true if the calling CPU is allowed to print oops-related info.
his is a bit racy

Called when the architecture enters its oops handler, before it prints anything. If this is the first CPU to oops, and it's oopsing the first time then let it proceed.

This is all enabled by the pause\_on\_oops kernel boot option. We do all this to ensure that oopses don't scroll off the screen. It has the side-effect of preventing later-oopsing CPUs from mucking up the display, too.

It turns out that the CPU which is allowed to print ends up pausing for the right duration, whereas all the other CPUs pause for twice as long: once in oops\_enter(), once in oops\_exit().

This thread may hit another WARN() in the panic path.

5

100 usecs

1 second

0 usecs

1 second

CONFIG\_SMP

filled in by handler

CONFIG\_NUMA\_BALANCING
CONFIG\_SCHED\_DEBUG

### https://gitlab.com/manufacturaind/booklet-scripts

#### booklet-impose-a5

A script to turn an A5 PDF into a set of 2-up A4 pages for double-sided printing. It's a way to quickly perform imposition so we can print A5 booklets in a double-sided A4 printer so that they come out ready to be folded and stapled.

The script uses podofoimpose with a .plan file with the imposition logic, which is directly based on an original recipe by Pierre Marchand, the author of podofoimpose. We are also indebted to stdin for pointing the right way.

Read the .plan file source for an explanation of the logic to arrange and sort the pages so that they're laid out in the correct order.

#### Usage

booklet-impose-a5 source.pdf

and it will create source-a4.pdf.

#### booklet-get-page-total

Returns the total number of pages on a PDF file.

\$ booklet-get-page-total source.pdf
24

#### dotfiles and GNU stow

```
# download and link to our config files
git clone https://gitlab.com/manufacturaind/dotfiles.git
cd dotfiles
stow */
```

#### atool!

```
# decompress any archive
aunpack archive.tar.bz2
# and also compress
apack archive.zip files/*
```

### Scraping sources for inspiration

### gallery-dl

```
# get photo albums
gallery-dl https://flickr.com/photos/fdctsevilla/
gallery-dl https://instagram.com/presentandcorrect/
gallery-dl https://twitter.com/lubalincenter/
```

#### youtube-dl / yt-dlp

```
# download videos
yt-dlp https://www.youtube.com/watch?v=1M9VA0UBRQ0
# or only the audio
yt-dlp -x https://www.youtube.com/watch?v=1M9VA0UBRQ0
```

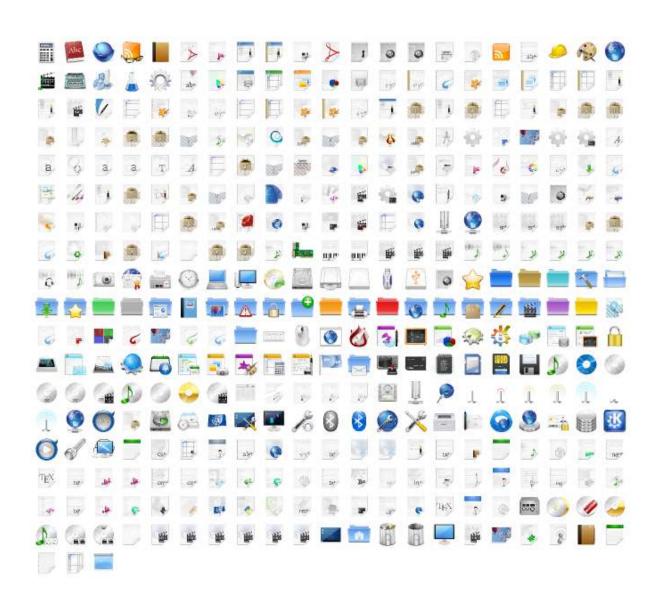
### plain wget

```
# download image sequence
for n in `seq 1 80`; do wget https://example.com/img/$n.jpg;
```

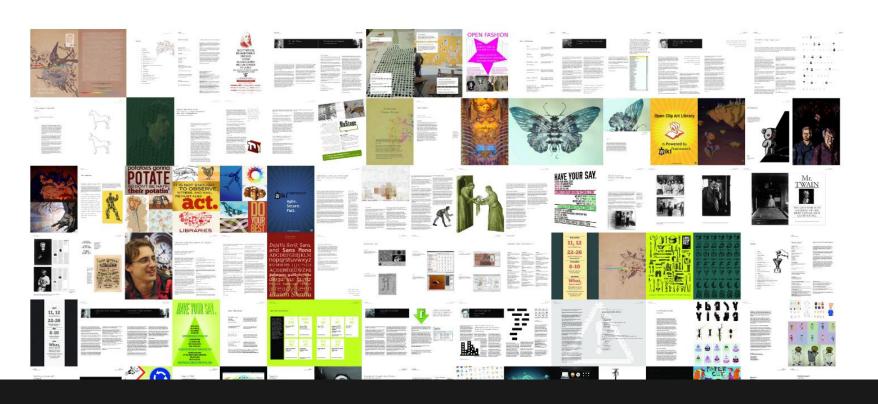
# For mostly everything else there's the Internet Archive <3

## Libre Graphics magazine

montage \*.png montage.png



#### \$ cat ~/libregraphicsmag/issues/\*



\$ cat ~/libregraphicsmag/issues/\*

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# Libre Graphics magazine Archive

#### LIBRE GRAPHICS MAGAZINE ARCHIVES

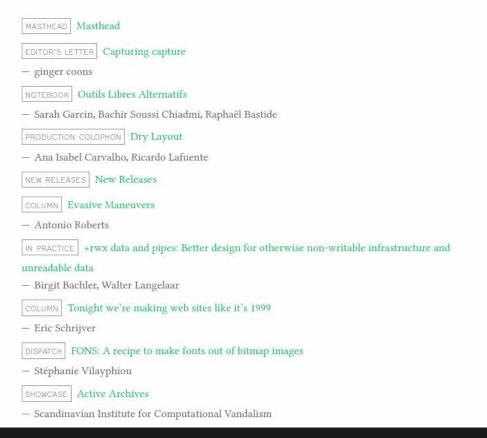
BROWSE BY ISSUE ▼ AUTHOR THEME GLOSSARY ABOUT

VOLUME 2

#### Issue 2.4 - Capture



This issue looks at Capture, the act of encompassing, emulating and encapsulating difficult things, subtle qualities. Through a set of articles we explore capture mechanisms, memory, archiving and preservation of volatile digital information, physicality and aesthetization of data.



### https://gitlab.com/libregraphicsmag/archive

#### Extract text from Scribus files

See the scripts/scribus-extract.py script.

#### Extracting image paths from Scribus files

```
cat 01-original-scribus-files/lgmag-1.1-p* | \
   grep -oe '"[^]*\(jpg\|png\)"' | \
   sort | uniq | \
   sed 's/"//g; s/\.\.\///g' > images-1.1.txt
```

#### Re-downloading images from repos

After extracting the image lists from the previous recipe, we did this (example for 2.4):

```
mkdir -p images/2.4
cd images/2.4
while read f; do wget "https://gitlab.com/libregraphicsmag/vol2issue4/raw/master/$f"; done < ../../image-lists/i</pre>
```

#### Resizing images to a max width and height

We wanted max 1800px width and 1400px height, while keeping smaller images as they are.

```
cd images/2.4
for f in *; do echo $f; mogrify -resize 1800x1400\> $f; done
```

or, to alter all images in subdirectories:

```
cd images
find . -name "*" | xargs mogrify -resize 970x4000\>
```

#### Review text files with a particular string

We needed to check every instance of a lowercase acronym (e.g. "svg") and edit it manually if it needed to be made uppercase again.

```
gran '\heyn\h' iccua* -lr | yarge vim -n
```

(borg to 155de et | xd/g5 tim p

#### Turn all images into image links

We wanted to change all images into a thumbnail which would then link to the original image.

So this

```
![](/images/2.1/picture.png)
```

should become

```
[![](/images-small/2.1/picture.png)](/images/2.1/picture.png)
```

So we use the following sed script:

```
cd content
find . -name "*.md" | xargs sed -i 's/!\[\](\(\/images\/[^)]*\))/[![](\1)](\1)/g; s/(\/images\//(\/images-small\
```

The sed operation comes in two parts: first we create the "image inside link", and after that we fix the directory of the thumbnail so that it points to the images-small directory.

## figlet / toilet

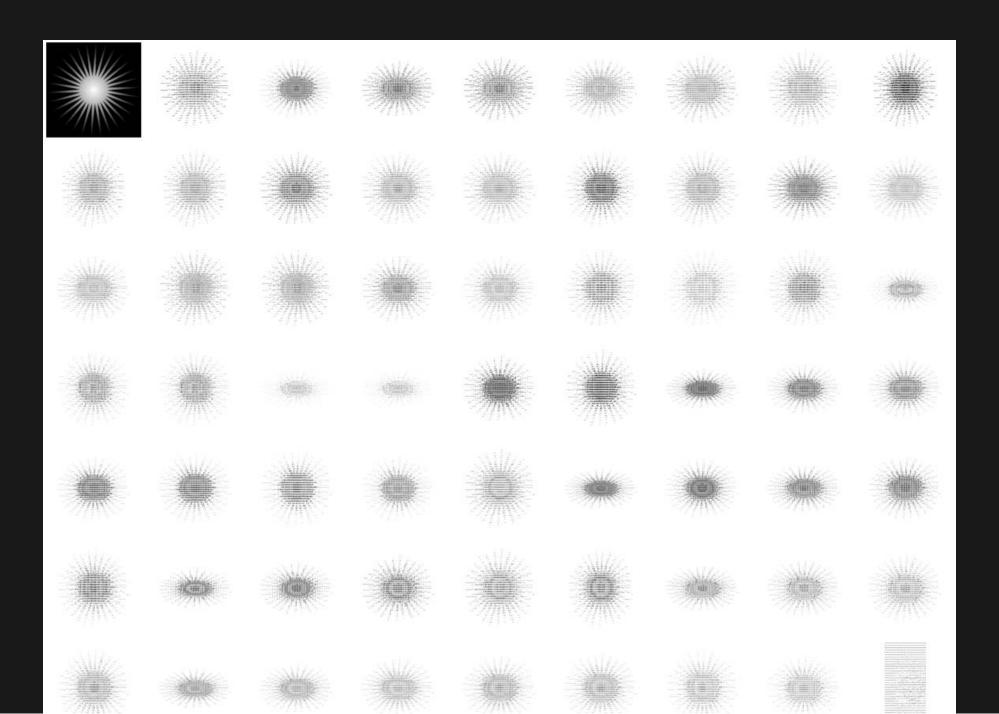
#### badger

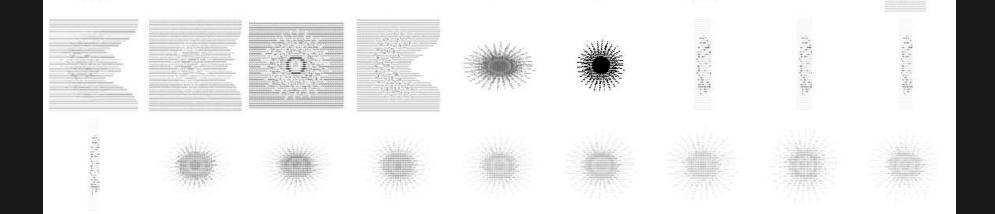
```
badger gnu.txt --font 5x8
--leading=-1 --tracking=-1
--textcolor="#dddddd" --bgcolor="#222222"
```

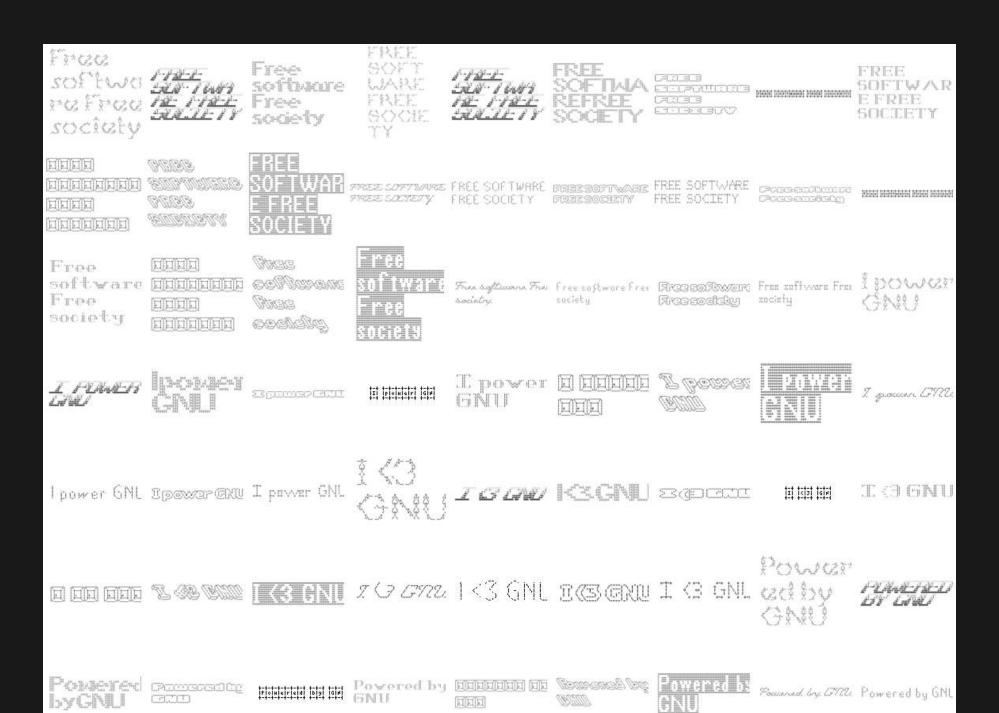
https://gitlab.com/manufacturaind/badger















Fonts and scripts for the Type:Bits workshops by Manufactura Independente

Subgroups and projects	Shared projects Archived projects	Search by name	Updated date ~
typebits.gitlab.io	or the Type:Bits workflow in MkDocs	<b>★</b> 1	12 hours ago
☐ F font-skeleton ⊕ Skeleton for bitm	ap fonts, made to be forked and edited	<b>★</b> 0	1 year ago
☐ font-flamingo ∉ A wavy typeface	<b>∌</b> with a whimsical attitude.	<b>★</b> 0	2 years ago
F font-mozblock (A typeface design	₱ ned inside Minecraft at the "Design open web fonts with Minecraft	." wor ★ 0	2 years ago
☐ font-setperset € A 7x7 bitmap for	nt created at the fonts.txt workshop in Barcelona (2014)	<b>★</b> 0	2 years ago
☐ F font-spalte ⊕		★ 0	2 years ago
☐ R font-roseta ⊕ A spiraling typefa	ace with an attitude. You can hear it singing if you get close enoug	h. ★ 0	3 years ago
☐ <b>I font-ladrillo</b> ⊕ A stern font that	nevertheless still knows how to have fun.	★ 0	3 years ago
☐ <b>M font-muralla ⊕</b> A sturdy typeface	e which won't take no for an answer.	<b>★</b> 0	3 years ago

# Type:Bits

About
Fonts
Principles
Past workshops
Tools & Recipes ^
Creating a new font
Building font files
Font specimens
The BMF font format
Colophon

## Creating a new font

Want to dive in the wonderful world of bitmap font drawing?

There are two available methods to quickly get started with a ready-toedit bare font template:

- 1. Fork the font-skeleton repository. Faster to get started, but needs some tweaking to the font's configuration.
- Use the cookiecutter-bitmapfont template. Requires you to install cookiecutter, but makes it easier to define the configuration values through a series of simple questions.

Additionally, you can try forking an existing font to have an existing base to work from -- just follow method 1 and instead of font-skeleton, choose another repository to fork from.

### Method 1: Fork the font skeleton repo

You can get started with a bare version of a bitmap font by forking the font-skeleton repository on the GitLab.com web interface.

If you want an easier start, try forking one of the existing fonts in the Type:Bits repository list.

#### Table of contents

Method 1: Fork the font skeleton repo Method 2: Use the

Cookiecutter template

Now what?

#### Type:Bits Building font files

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Colophon

sudo apt-get install python-virtualenv

Now, just run make install to pull and install the remaining dependencies.

Finally, clone the bitmapfontbuilder repository to the same directory where you've pulled this font, so that both are inside the same folder.

cd ..
git clone https://gitlab.com/typebits/bitmapfontbuilder

#### Building locally

Whenever you want to re-generate the font files from the source, just type

make build

This will generate the files in FontForge (.sfd), TrueType (.ttf) and OpenType (.otf) formats.

#### Building and deploying to a repository

A better workflow is to create a Git repository from this font directory and running

make deploy

This command is identical to make build but pulls changes from the repository before building, generates the font files, commits the newly built files and pushes the changes back into the remote repository. This is particularly handy if you're working with more people and want to incorporate their changes quickly.

#### Table of contents

Method 1: Using GitLab to automatically build font files

Method 2: Build font files in your computer

Installing dependencies
Building locally

Building and deploying to a repository

## transpacing

a script to transplant spacing from one font to another.

```
font with no spacing
+ similar font with good spacing
= font with decent spacing
```

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789.:,;(\*!?')

The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
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The quick brown fox jumps over the lazy dog.

 Name:
 M+1m

 Style:
 regular

 Type:
 TrueType font

 Size:
 1.1 MB

 Version:
 Version 1.042

Copyright: Copyright(c) 2011 M+ FONTS

PROJECT

>

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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drwxrwxrxx, 34 rlafuente rlafuente 4096 Feb 17 13:41 ...
drwxrwxrxx, 2 rlafuente rlafuente 4096 Feb 17 13:43 fffilters
#!/usry/bin/env python
import sys
import os, shutil
import fontforge
if len(sys.argv) != 4:
    print "Usage: \source font> \target font> \soutput filename>"
    sys.exit()

SOURCE = os.path.abspath('./sources/DejaVuSansCondensed-Bold.tff')

"[master]["/code/tinytypetools/transpacing] * ./transpacing Reglo-Bold.sfd mplus-1m-regular
tff franken,ttf
Reglo-Bold.sfd
mplus-1m-regular.ttf
franken,ttf
"[master]["/code/tinytypetools/transpacing] * ls
franken,ttf mplus-1m-regular,ttf Reglo-Bold.sfd transpacing
# [master]["/code/tinytypetools/transpacing] * go mplus-1m-regular.ttf
"[master]["/code/tinytypetools/transpacing] * import
import: missing an image filename 'import' @ error/import.c/ImportImageCommand/1295.
*[master]["/code/tinytypetools/transpacing] * import "/transpacing.png
"[master]["/code/tinytypetools/transpacing] * import "/transpacing.png
```

Name:

Style:

Type:

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Version

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PROJE

## fontconvert

fontconvert Douar.sfd --otf --ttf --woff

## fffilters

```
import fontforge
font = fontforge.open('douar.sfd')
for glyph in font:
  font[glyph].stroke('circular', 30, 'square', 'bevel', ('cle
font.generate('douar-outline.ttf')
```

# Thank you!

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