

A photograph of two women in a car. The woman on the left is wearing a black top and has her mouth open as if laughing. The woman on the right has long dark hair and is also laughing. Both are wearing seatbelts. The background shows the interior of a car and some blurred trees outside.

Git, GitHub, GitHub Pages

I'M ALIVE
I'M ALIVE

Jürgen Leschner @jldec

Back in the 80's

“ *Free software is software that respects your freedom and the social solidarity of your community.
So it's free as in freedom.*

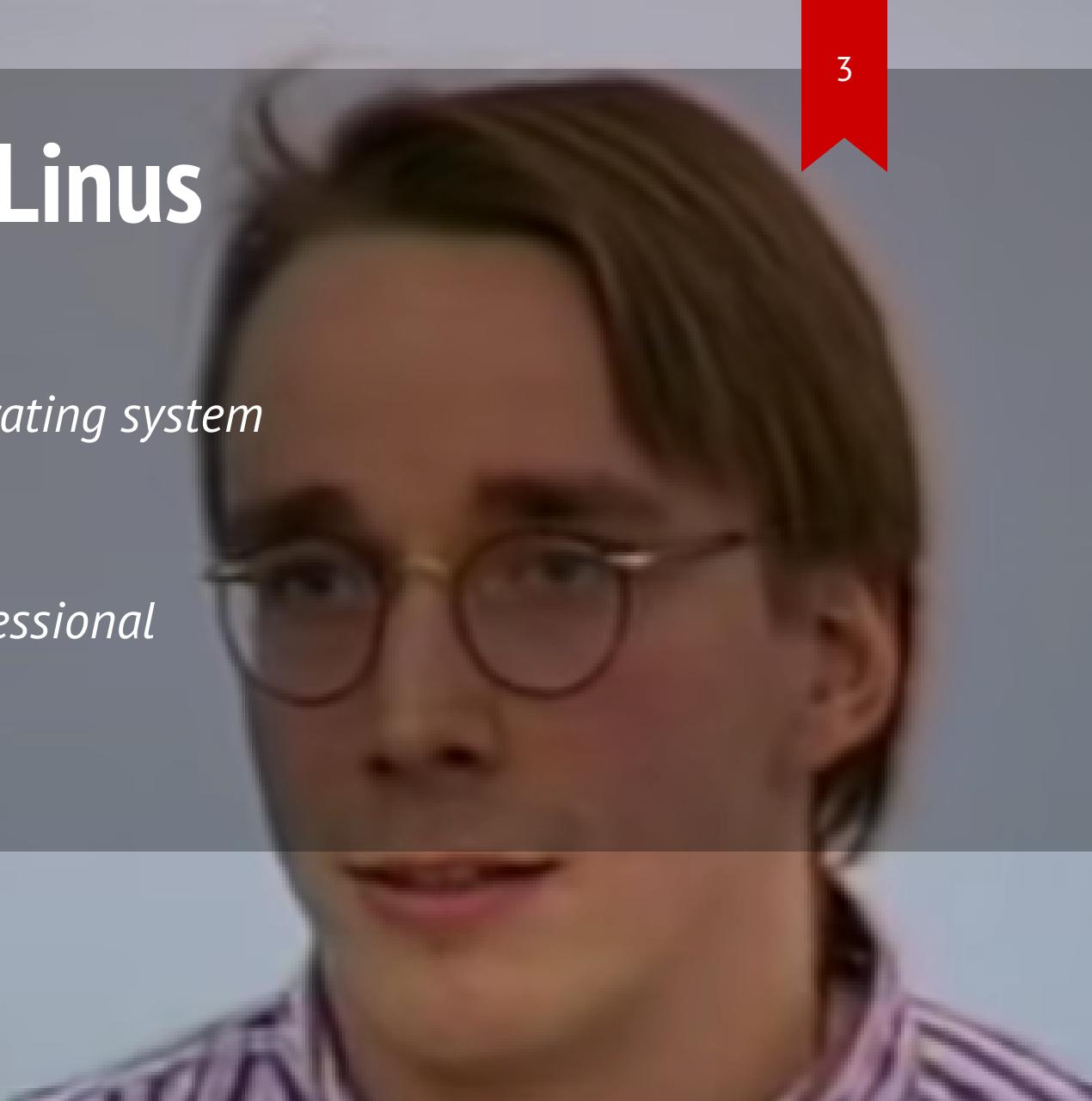
Richard Stallman

- GNU 1983
- GPL 1989

Then came Linus

“ *I'm doing a (free) operating system
just a hobby
won't be big and professional*

Linux Kernel 1991



“ Good programmers worry about data structures
and their relationships.



- Distributed Version Control
- Linus Torvalds
- April-December 2005



git demo

- git init

write some code

- git add

- git commit

write some more code

- git status

- git add

- git commit

- git log

GitHub

Screenshot of a GitHub user profile page for [jldec \(Jurgen Leschner\)](https://github.com/jldec).

The page includes the following sections:

- User Profile Picture:** A photo of Jurgen Leschner wearing a black beanie.
- User Information:** Name (Jurgen Leschner), Username (jldec), GitHub STAFF badge, location (Cambridge, MA), blog link (<http://blog.pubblz.com>), and joining date (Jun 14, 2011).
- Header Navigation:** Pull requests, Issues, Gist, Explore, notifications, and profile edit buttons.
- Contributions:** Contributions, Repositories, and Public activity buttons.
- Popular repositories:**
 - [pub-server](#) (41 stars)
 - [tomd](#) (3 stars) - Shell script for upgrading textile posts to markdown.
 - [socket.io](#) (2 stars) - temporary socket.io v1.3.6 clone for node.js v4.x
 - [lodash-doc-2](#) (1 star) - experimental lodash docs (see [jldec/lodash-doc-2](#))
 - [marked-forms](#) (1 star) - generate html form labels and input controls from...
- Repositories contributed to:**
 - [fmctraining/fmc-md](#) (0 stars)
 - [fmctraining/fmc-code](#) (0 stars)
 - [techxlab/www.techxlab.org](#) (0 stars) - production website for technology exchange lab
 - [techxlab/techxlab-website](#) (0 stars) - source code and content pertaining to the tech...
 - [techxlab/ssghx-website](#) (0 stars) - source code and content pertaining to the glob...
- Contributions:** A timeline showing contributions from March to February.

GitHub Demo

First create a new repo at `github.com`

- `git remote add origin <github-repo-url>`
- `git push origin <branch>`

Someone else on a different machine

- `git clone <github-repo-url>`
- `git push`

Hack on the code together

Use branches and pull requests to coordinate

GitHub Pages

Publish a website from your GitHub repo



GitHub Pages Demo

- git init

write code, git add, git commit

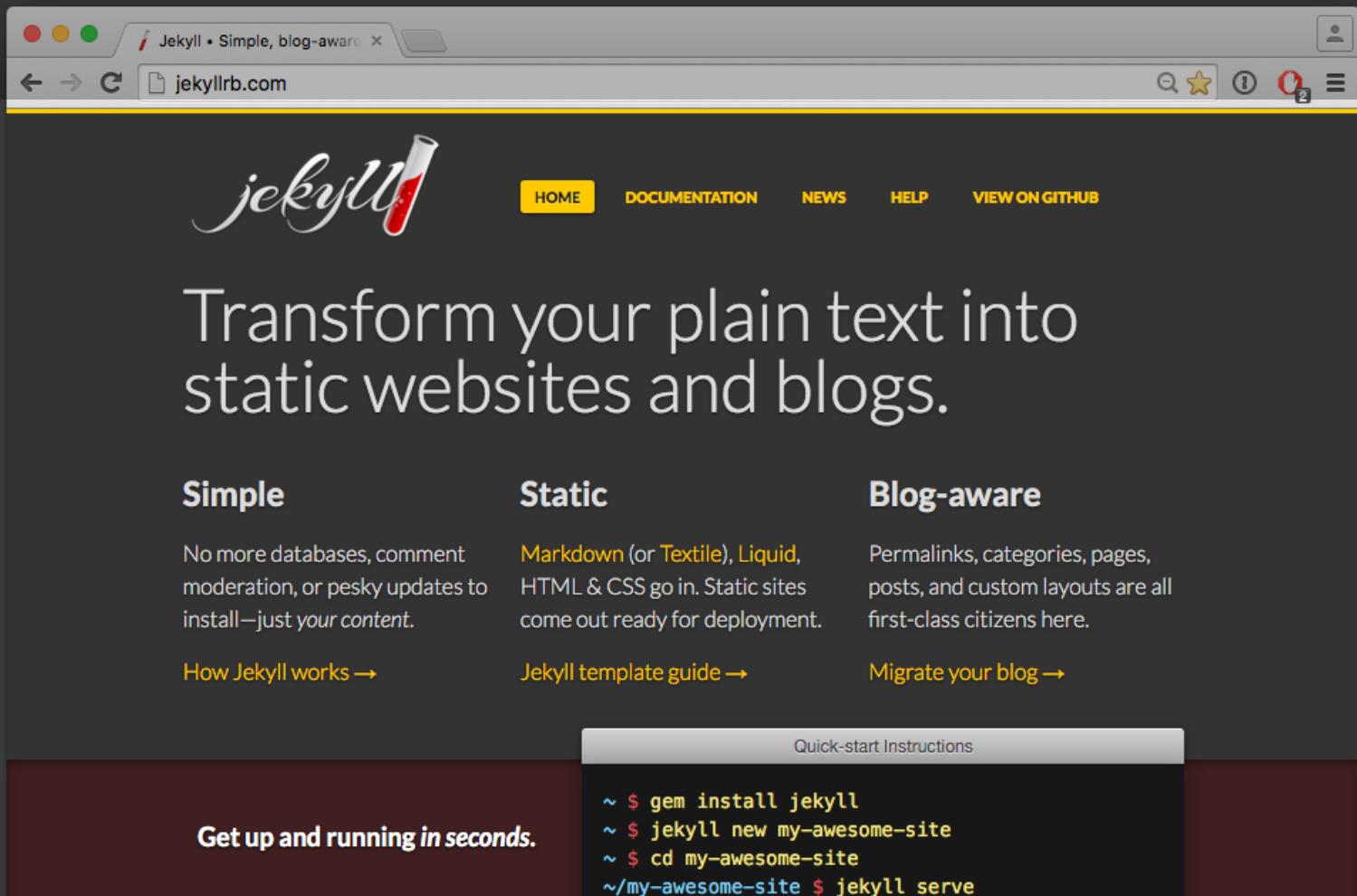
- git branch -m gh-pages

Push to new GitHub repo

Or...

Name your repo 'username.github.io'

Jekyll is a blog-aware, static site generator written in Ruby



The screenshot shows the Jekyll website homepage as it would appear in a web browser. The title bar reads "Jekyll • Simple, blog-aware". The address bar shows "jekyllrb.com". The page features a large "jekyll" logo with a red brushstroke effect. A navigation bar at the top includes links for "HOME", "DOCUMENTATION", "NEWS", "HELP", and "VIEW ON GITHUB". The main headline is "Transform your plain text into static websites and blogs." Below this, three columns highlight "Simple", "Static", and "Blog-aware" features. Each column has a link to learn more: "How Jekyll works →", "Jekyll template guide →", and "Migrate your blog →". At the bottom, a "Quick-start Instructions" box contains the command-line steps: "gem install jekyll", "jekyll new my-awesome-site", "cd my-awesome-site", and "jekyll serve".

jekyll

HOME DOCUMENTATION NEWS HELP VIEW ON GITHUB

Transform your plain text into static websites and blogs.

Simple

No more databases, comment moderation, or pesky updates to install—just *your content*.

[How Jekyll works →](#)

Static

Markdown (or Textile), Liquid, HTML & CSS go in. Static sites come out ready for deployment.

[Jekyll template guide →](#)

Blog-aware

Permalinks, categories, pages, posts, and custom layouts are all first-class citizens here.

[Migrate your blog →](#)

Quick-start Instructions

```
~ $ gem install jekyll
~ $ jekyll new my-awesome-site
~ $ cd my-awesome-site
~/my-awesome-site $ jekyll serve
```

Get up and running *in seconds*.

Jekyll demo

```
- gem install jekyll
```

```
- jekyll new .
```

```
- jekyll serve
```

```
in _config.yml
```

```
baseurl: /hamphack
```

```
kramdown:
```

```
    input: GFM
```

```
- git add -A
```

```
git commit, push etc.
```

pub-server demo

```
- npm install -g pub-server
```

```
- git clone <github>/jldec/pub-sample-deck.git
```

```
- cd pub; pub
```

edit markdown, watch <http://localhost:3001/>

```
- pub -0
```

```
- cd out
```

```
- git init
```

```
- git add, git commit, git branch -m gh-pages
```

push to a new repo on GitHub

Other Static Site Generators

<https://www.staticgen.com/>

e.g. Hugo, Hexo, Pelican, Brunch, Middleman, Docpad, Harp

Time for

-Question-



Thank You!

GitHub

- <https://github.com/>
- <https://git-scm.com/>
- <https://help.github.com/>

Command Line installers

- git command line utilities included with OSX since v10.9 (Mavericks)
- <https://github.com/git-for-windows/git>

GUI (OSX and Windows)

- <https://desktop.github.com/>

Online Git Tutorials and more

<https://try.github.io>

<https://training.github.com/kit/downloads/github-git-cheat-sheet.pdf>

<https://github.com/blog/2019-how-to-undo-almost-anything-with-git>

https://ja.atlassian.com/dms/wac/images/landing/git/atlassian_git_cheatsheet.pdf

Read about GitHub Pages

- <https://medium.com/@dfosco/git-for-designers-856c434716e#.9rnz1ulu7>
- <http://readwrite.com/2013/11/27/github-pages-explained>

GitHub Pages links

- <https://pages.github.com/>
- <https://help.github.com/categories/github-pages-basics/>
- <https://help.github.com/categories/github-pages-features/>
- <https://help.github.com/categories/github-pages-troubleshooting/>
- <https://guides.github.com/features/mastering-markdown/>

Jekyll

- Static Site Generator written in Ruby
- Integrated into GitHub Pages
- <http://jekyllrb.com>
- <https://github.com/jekyll/jekyll>
- <https://help.github.com/articles/configuring-jekyll/>

Pub server

- Static Site Generator written in JavaScript
- Personal project - not GitHub sponsored or integrated
- <https://github.com/jldec/pub-server>
- <https://jldec.github.io/pub-doc/>

YouTube

- 2001 The Code: Story of Linux documentary
- 2012 Aalto Talk with Linus Torvalds
- 2007 Tech Talk: Linus Torvalds on git
- 2008 Chris Wanstrath Interview at RailsConf