



Git & GitHub Training session

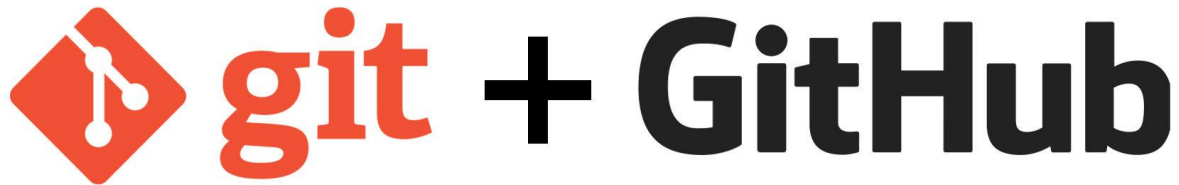
samedi 20 février 2016

Club Scientifique
ENSA Marrakech



#Objectives

- Understand Git and its advantage
- Create your own Git/GitHub Account
- Installing Git/GitHub
- Be familiar with basic operations :
Create a Repos/Branch, Commit, Push, Pull request, Merge...





> Historique



Global information tracker

Créé en 2005 par Linus Torvalds

C'est un logiciel libre créé par Linus Torvalds, auteur du noyau Linux, et distribué selon les termes de la licence publique générale GNU version 2. 'GPLv2'

Système de Gestion de versions (exemple : CVS , SVN)

Décentralisé et open Source

Très utilisé pour le code, mais fonctionne avec du texte

en 2007 GitHub propose l'hébergement gratuitement de dépôts Git gratuitement si ils sont ouverts publiquement!

GitHub lancé par Tom Preston-Werner

Linus Torvalds

AWARDING
EXCELLENCE





> C'est quoi gestion de Versions ?



c'est quoi la gestion de Versions ?

- pour les sauvegardes
- pour pouvoir revenir en arrière
- pour garder un Historique
- Pour travailler collaborativement
- Pour faire le suivi d'un projet

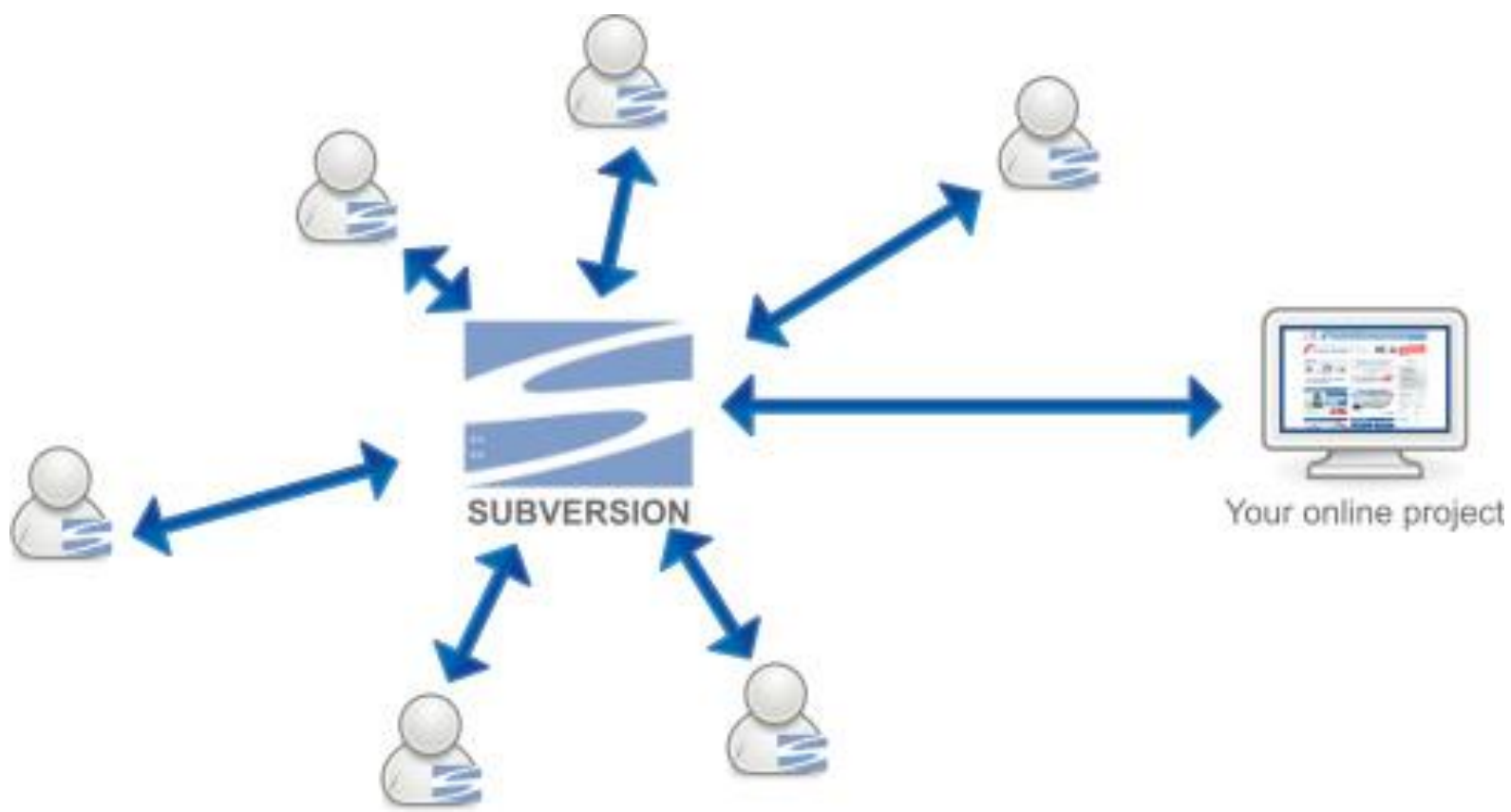
La gestion de version est importante
Cela fait gagner du temps sur le long terme

Git et GitHub permettent de gérer gratuitement cette tâche

Déjà énormément d'utilisateurs

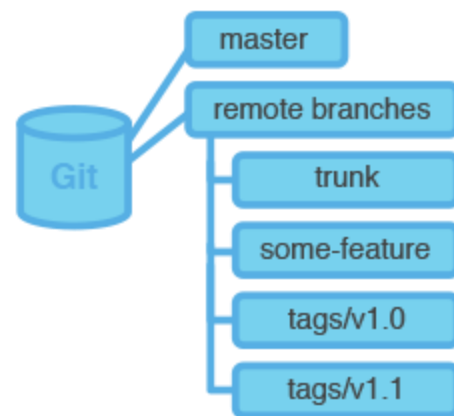


>Différence entre Git et Les anciens Gestionnaires de version



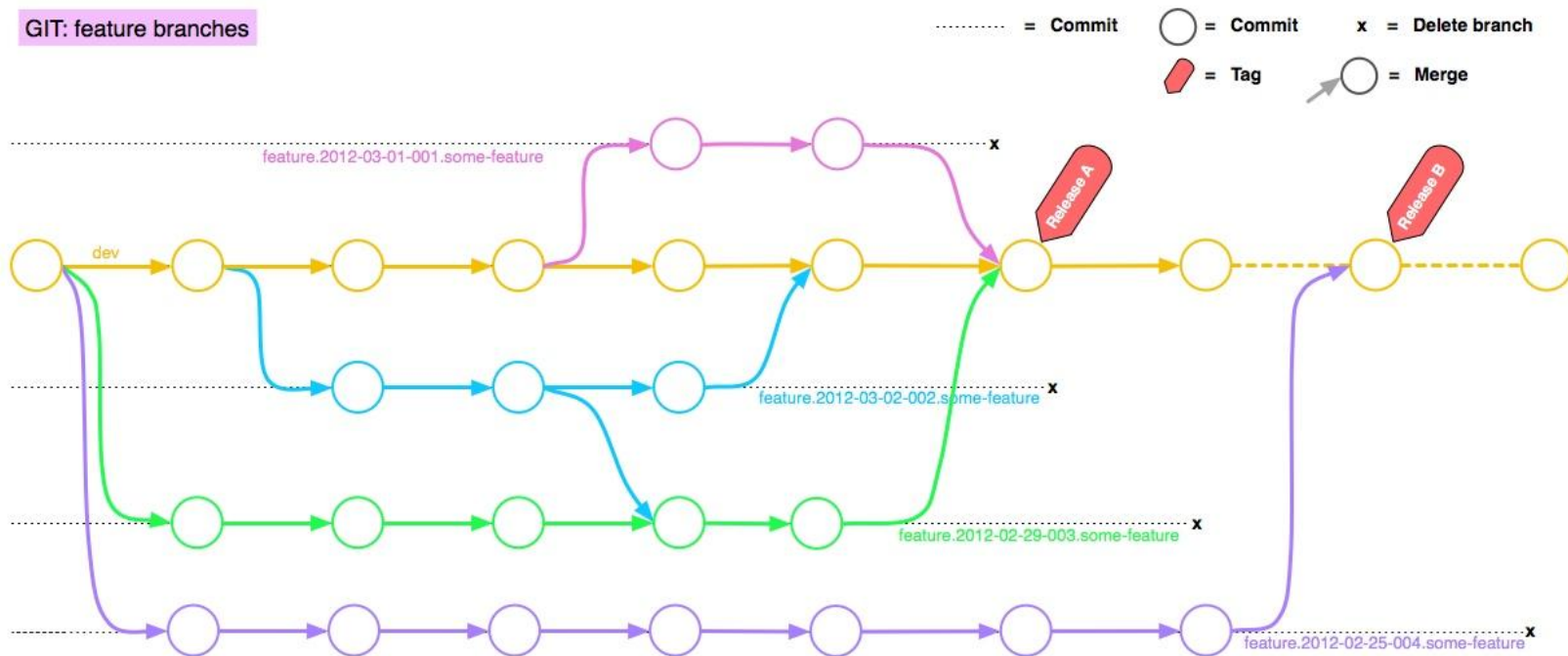


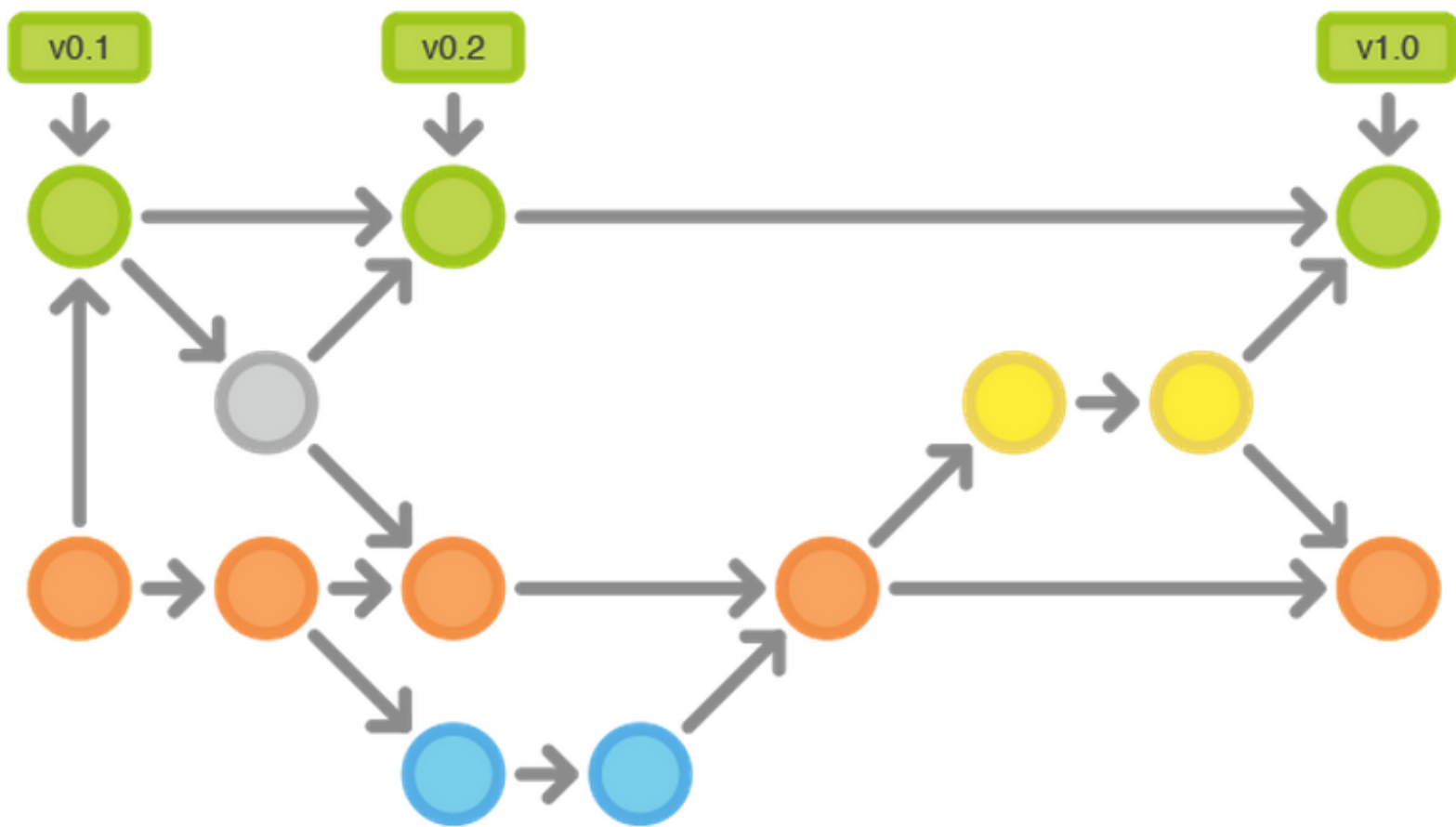
Structure of original SVN repo



Structure of cloned Git repo

GIT: feature branches







> Débuter avec GitHub

Les Technologies Offertes par GitHub

GitHub

GitHub Entreprises

GitHubGist

GitHub

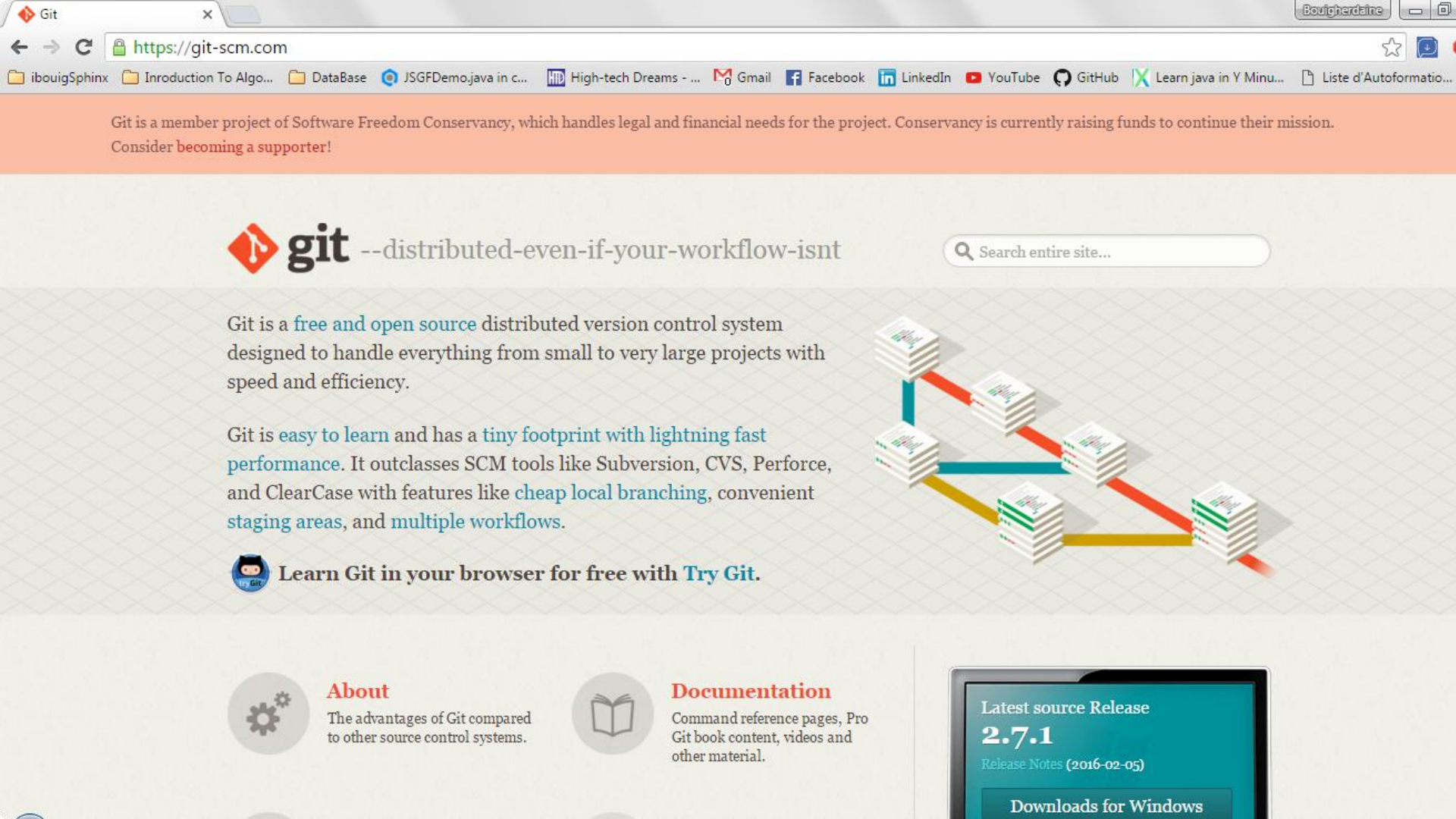


Personal plans

Display estimated prices in MAD

For individuals looking to share their own projects and collaborate with others.

	Free \$0/month	Micro \$7/month	Small \$12/month	Medium \$22/month	Large \$50/month
Collaborators	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Public repositories	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Private repositories	0	5	10	20	50



git --distributed-even-if-your-workflow-isnt

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient staging areas, and **multiple workflows**.



Learn Git in your browser for free with **Try Git**.



About

The advantages of Git compared to other source control systems.



Documentation

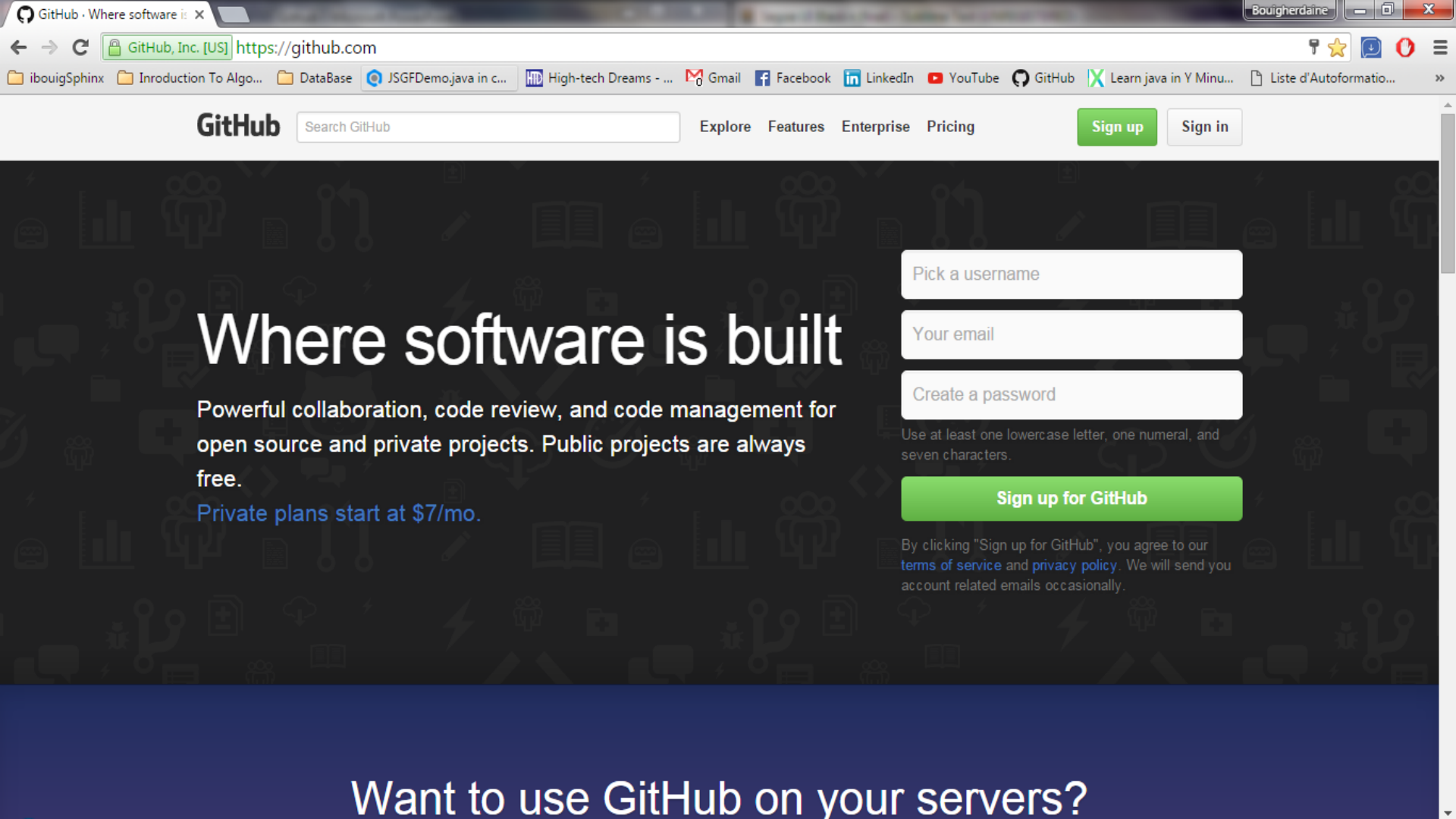
Command reference pages, Pro Git book content, videos and other material.

Latest source Release

2.7.1

Release Notes (2016-02-05)

Downloads for Windows



Where software is built

Powerful collaboration, code review, and code management for open source and private projects. Public projects are always free.

Private plans start at \$7/mo.

Use at least one lowercase letter, one numeral, and seven characters.

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We will send you account related emails occasionally.

Want to use GitHub on your servers?

Join GitHub

The best way to design, build, and ship software.



Step 1:
Set up a personal account



Step 2:
Choose your plan



Step 3:
Go to your dashboard

Create your personal account

Username

mourchidyassine



This will be your username — you can enter your organization's username next.

Email Address

yine.mourchid@gmail.com



You will occasionally receive account related emails. We promise not to share your email with anyone.

Password

.....|



Use at least one lowercase letter, one numeral, and seven characters.

By clicking on "Create an account" below, you are agreeing to the [Terms of Service](#) and the [Privacy Policy](#).

Create an account

You'll love GitHub

Unlimited collaborators

Unlimited public repositories

- ✓ Great communication
- ✓ Friction-less development
- ✓ Open source community



Welcome to GitHub

You've taken your first step into a larger world, [@mourchidyassine](#).

**Completed**

Set up a personal account

**Step 2:**

Choose your plan

**Step 3:**

Go to your dashboard

Choose your personal plan

Plan	Cost (view in MAD)	Private repositories	
Large	\$50/month	50	<button>Choose</button>
Medium	\$22/month	20	<button>Choose</button>
Small	\$12/month	10	<button>Choose</button>
Micro	\$7/month	5	<button>Choose</button>
Free	\$0/month	0	<button>Chosen</button>

Charges to your account will be made in US Dollars. Converted prices are provided as a convenience and are only an estimate based on current exchange rates. Local prices will change as the exchange rate fluctuates.

Don't worry, you can cancel or upgrade at any time.

☐ Help me set up an organization next

Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees.

[Learn more about organizations.](#)

Each plan includes:

Unlimited collaborators

Unlimited public repositories

- ✓ Free setup
- ✓ HTTPS Protection
- ✓ Email support
- ✓ Wikis, Issues, Pages, & more

[Finish sign up](#)



Authorize application

Bootsnipp by @skyhighpn would like permission to access your account



Review permissions



Personal user data

Email addresses (read-only)



Verify an email address on GitHub to authorize this application.

Authorize application

Bootsnipp

Create and share HTML, CSS, Javascript, and Bootstrap Code Snippets

[Visit application's website](#)

[Learn more about OAuth](#)





Sign in to GitHub

Username or email address

Password

[Forgot password?](#)

Sign in

New to GitHub? [Create an account.](#)

[Terms](#) [Privacy](#) [Security](#) [Contact](#)

[Pull requests](#) [Issues](#) [Gist](#)

Your email was verified.



Learn Git and GitHub without any code!

Using the [Hello World](#) guide, you'll create a repository, start a branch, write comments, and open a pull request.

Let's get started!



mourchidyassine ▾



Welcome to GitHub! What's next? (2 minutes ago)

[Create a repository](#)

[Tell us about yourself](#)

[Browse interesting repositories](#)

Follow [@github](#) on Twitter



ProTip! Edit your feed by updating the users you [follow](#) and repositories you [watch](#).

Your repositories 0

[+ New repository](#)

You don't have any repositories yet!

[Create your first repository](#) or [learn more about Git and GitHub](#).

ProTip! The network graph shows you commits in forks that are not present in your repository.

[Subscribe to your news feed](#)

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Hello World

🕒 10 minute read

The **Hello World** project is a time-honored tradition in computer programming. It is a simple exercise that gets you started when learning something new. Let's get started with GitHub!

You'll learn how to:

- Create and use a repository
- Start and manage a new branch
- Make changes to a file and push them to GitHub as commits

is a simple exercise that gets you started when learning something new. Let's get started with GitHub!

You'll learn how to:

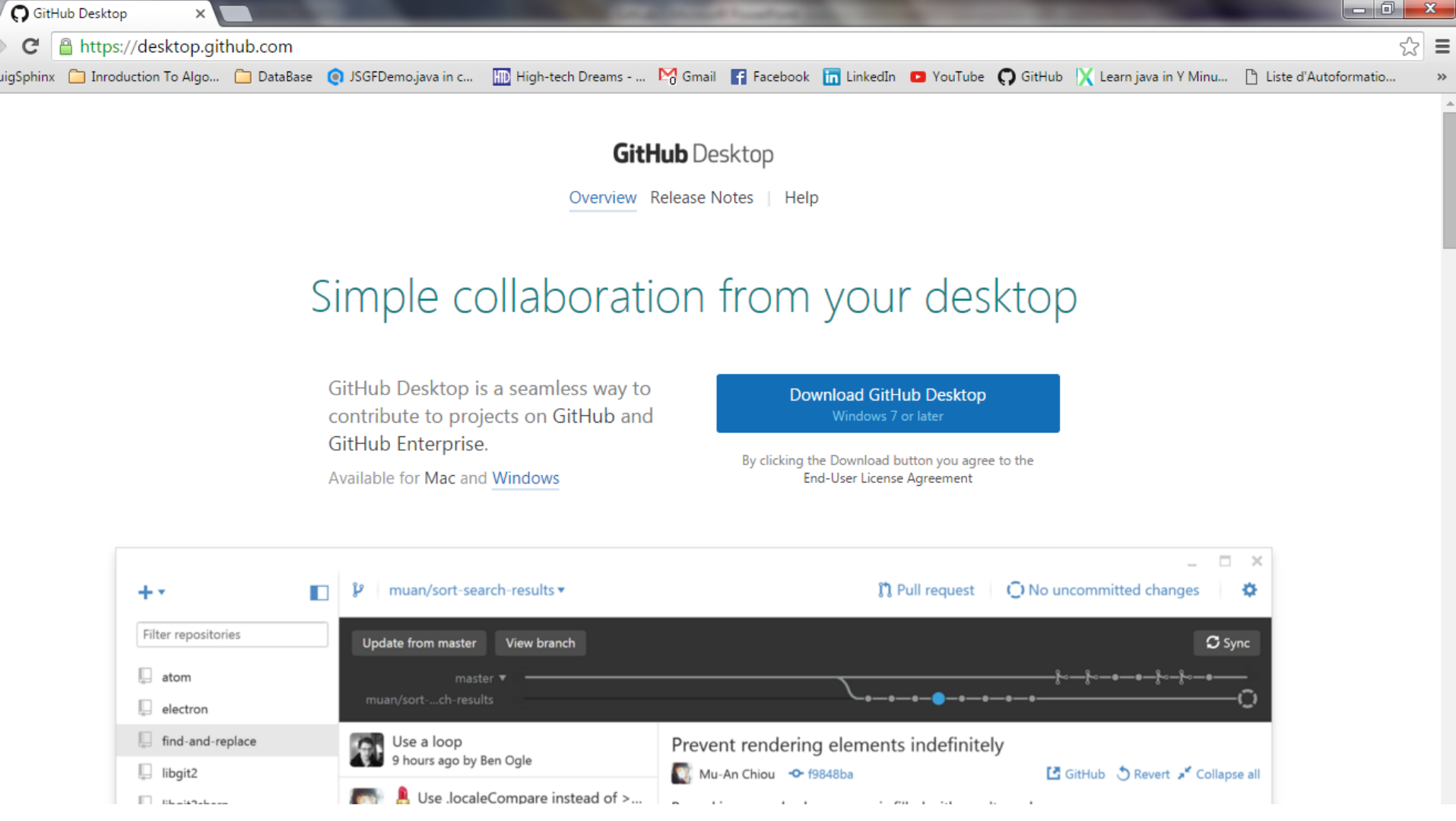
- Create and use a repository

Intro

[What is GitHub?](#)[Create a Repository](#)[Create a Branch](#)[Make a Commit](#)[Open a Pull Request](#)[Merge Pull Request](#)

Intro

[What is GitHub?](#)[Create a Repository](#)[Create a Branch](#)





New-Branch-For-test

Changes

History



Pull request



Filter repositories

GitHub

Determinant-of-a-matrix-usi...

Maze-Game-QT-Cpp

RubikCub

social

SpeechProject

Other

816e42b8df303151e035

Tutorial

Update from master

View branch

Publish

master

New-Branch-For-test

Welcome! Let's walk through the basics of [GitHub Flow](#):

1. Make a new branch.
2. Make changes.
3. Open a pull request

If you want to launch this tutorial at another time go to the gear menu and select Tutorial.

✓ Got it! [Learn more](#)

Change 1: added README.md file



Said Bouigherdaine [d00e6f3](#)

[Revert](#) [Collapse all](#)

it describes what we are doing here

▼ README.md

```
...  ...  @@ -0,0 +1,3 @@
1  + # Tutorial
2  +
3  + This is my tutorial repository.
```

A colorful, stylized cartoon background featuring various characters, including a cat, a girl with a rainbow, and a girl with a camera.

#Liens Utiles

<https://github.com>

<https://desktop.github.com>

<https://gist.github.com>

Les Pages D'Aide

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

<http://rogerdudler.github.io/git-guide/index.fr.html>

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Présentation : Said Bouigherdaine
samedi 20 février 2016

