

Jug Summer Camp

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GitPod: IDE as a Service

Speakers : Horacio Gonzalez - [@LostInBrittany](#)

Philippe Charrière - [@k33g_org](#)



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Merci à vous

et au

JUG Summer Camp



Qui sommes nous ?

Horacio Gonzalez:

Espagnol perdu en Bretagne
Head of DevRel @OVHcloud



Finist
Devs 🗺️



Philippe Charrière:

TAM @ GitLab & Side Projects' Gardener 🌸🌸🌼

Geek à +50 ans





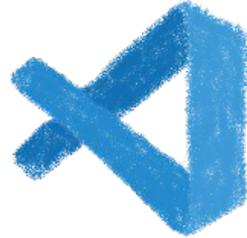
Gitpod

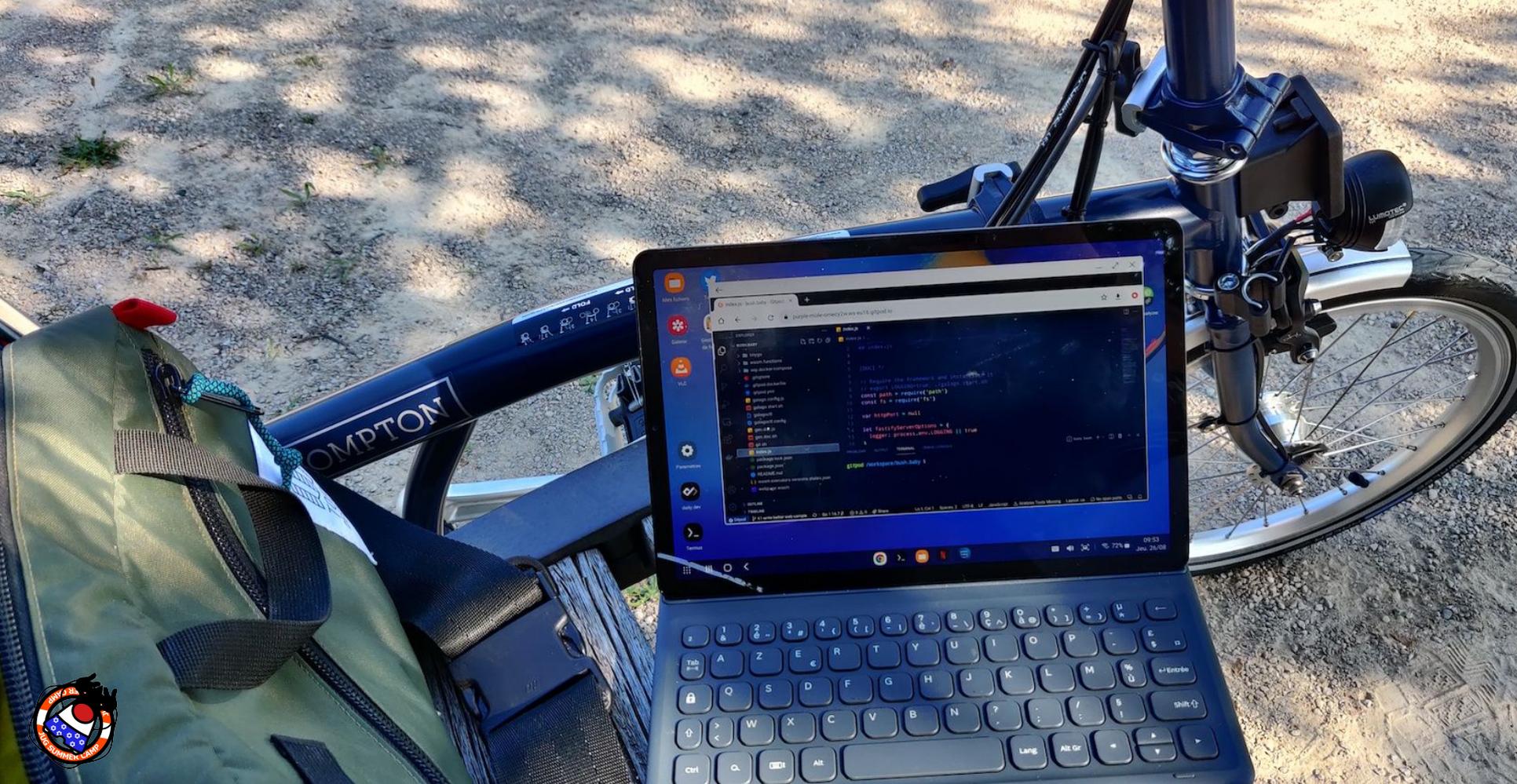


GitPod ?

IDE **WEB**

- Eclipse Theia → VS Code
- Remote
- Workspaces





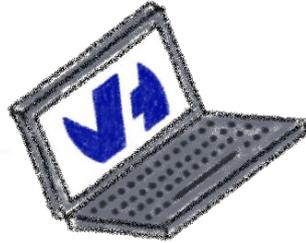
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GitPod ?

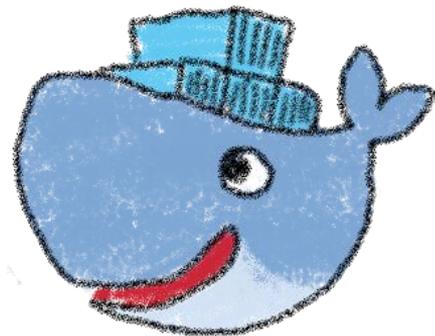
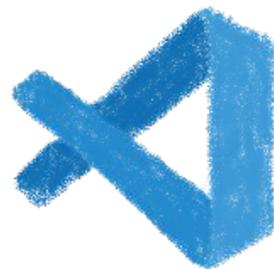
Plus besoin de laptop surpuissant et coûteux

- > Ultraportable low cost
- > ChromeBook
- > iPad (*)
- > Tablette Android (*)



Un projet GitPod ?

- une image Docker 🐳 par défaut:
`gitpod/workspace-full`
- 2 fichiers 📄 de configuration:
`.gitpod.dockerfile` (optionel)
`.gitpod.yml` (optionel)



Un projet GitPod utilisable



avec GitLab
avec GitHub
avec Bitbucket



Gitpod

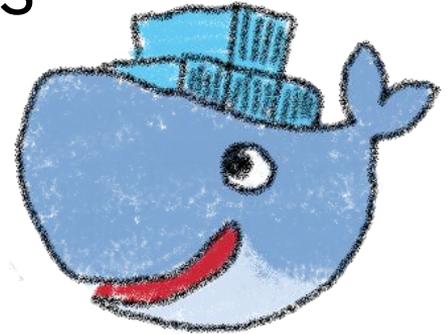


SaaS ou On-Premises (K8S)



Un projet GitPod : Workspaces

- Plusieurs workspaces (🐳 environnements) pour un même projet
- Possibilité de faire “discuter” les workspaces de différents projets
- Partage de workspaces



Pricing (SaaS)



- Open source / Free / 50h par mois
- Perso 8€ par mois / 100h par mois / 4 // workspaces / Timeout 30 mins
- Pro 23€ par mois / h: no limit / 8 // workspaces / Teams
- Unleashed 35€ par mois / 16 // workspaces / Timeout 1h

- Free Professional Open Source plan / h: no limit (public projects)
- Self hosted (K8S) Open Source (Free) et Pro (29€)



Pourquoi GitPod plutôt que CodeSpace ?



VS



Pourquoi GitPod plutôt que CodeSpace ?

- Plus de ressources machine (cpu & ram)
- Disponible pour GitLab, BitBucket, GitHub
- **Open source**
- Self-Hosted possible (GCP, AWS, K8S)
- SnapShots
- PreBuilds



VS



Pourquoi (mais en démo) ?





Hello World



https://gitlab.com/k33g_org/jugsummercamp-2021/hello-world

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👋 Hola Horacio

Bonjour Horacio, tu as été accepté à Devovx BE pour faire un hands-on Web Components la semaine prochaine 🙌 🎉 ... Pour 200 participants 😈 ... Mais tu peux encore refuser



<https://github.com/LostInBrittany/stencil-beers>

👋 Hello Philippe

Bonjour Philippe, bienvenu dans le monde des chefs de projets, nous sommes vendredi, ton équipe de 15 développeurs arrive lundi, voici 15 PCs et 3 serveurs ... ❄️



https://gitlab.com/k33g_org/jugsummercamp-2021/docker-compose

👋 Salut Sam

Salut Sam, au fait le client a appelé, la formation kubernetes c'est demain, même pas mal hein ? 😬



https://gitlab.com/k33g_org/jugsummercamp-2021/civo-cluster

👋 Coucou Kristen

Coucou Kristen, il faudrait préparer 30 postes de développement GoLang 1.16, TinyGo 1.19 et Wasmer pour le nouveau projet wasm pour le client Pouillou



https://gitlab.com/k33g_org/jugsummercamp-2021/tinygo

👉 Au fait Philippe, tes sides projects ...

Au fait Philippe pour tes sides projects, tu utilises aussi GitPod ?

<https://gitlab.com/galago.fun/galago.server>

<https://gitlab.com/galago.fun/galago.server/-/boards/3117518>

<https://gitlab.com/galago.fun/galago.cli>



👋 Hey Philippe, c'est encore ton boss

Salut Philippe, désolé de t'embêter, je viens d'avoir le client au téléphone, il voudrait pouvoir tester facilement le projet lui même. J'ai dit que c'était comme si c'était fait. Mais on est large, c'est pour demain ... matin pour son codir 🤨

<https://gitlab.com/galago.fun/galago.install.demo.template>



 **Hey Jane !**

Salut Jane, bienvenue chez GitLab, tu vas contribuer au code source d'une application avec une architecture multi nodes, avec du Redis, du PostgreSQL, du Ruby, du Go, du NodeJS, du ...

... Et voici ton portable avec 8Go de RAM 

 <https://gitlab.com/gitlab-org/gitlab-development-kit/-/blob/main/doc/howto/gitpod.md>

GitLab.org / GitLab - GitLab x background_migrations_contr... x Groups - Explore - GitLab x +

gitlab.com/gitlab-org/gitlab/

GitLab Next Menu

Search GitLab

431 30 99+

GitLab

- Project information
- Repository
- Issues 40,700
- Merge requests 1,238
- Requirements
- CI/CD
- Security & Compliance
- Deployments
- Monitor
- Infrastructure
- Packages & Registries
- Analytics
- Snippets

GitLab.org > GitLab

 **GitLab** 
Project ID: 278964

🔔 Star 3042 🍴 Fork 4344

↔️ 249,555 Commits 🌿 8,208 Branches 🏷️ 1,977 Tags 📁 8 GB Files 🗄️ 66.1 TB Storage 📦 115 Releases

GitLab is an open source end-to-end software development platform with built-in version control, issue tracking, code review, CI/CD, and more. Self-host GitLab on your own servers, in a container, or on a cloud provider.

pipeline passed Ruby Coverage unknown JS Coverage 77.87%

master gitlab / +

History Find file **Gitpod** 📄 📄 Clone

 Merge branch 'aquals-feature-flag-fixes' into 'master' ...
Craig Norris authored 29 minutes ago ✓ 2694f275 📄

📄 README 🔗 Other 📄 CHANGELOG 📄 CONTRIBUTING 📄 CI/CD configuration

Name	Last commit	Last update
 .github	Rename GitLab CE to FOSS in GitHub issue...	1 year ago
 .gitlab	Merge branch '339312-consider-running-r...	7 hours ago
 .theia	Revert "Move host authorization to to gitpo...	10 months ago
 app	Merge branch 'fix-broken-image' into 'mas...	3 hours ago

⏪ Collapse sidebar
<https://gitpod.io/#https://gitlab.com/gitlab-org/gitlab/-tree/master>

Launch a ready-to-code development environment for your project.



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The screenshot shows a web-based IDE interface for GitLab. The top navigation bar includes the URL `aqua-earwig-wpty7g9l.ws-eu16.gitpod.io`. The left sidebar displays a file explorer for the project `background_migrations_controller.rb`, with the `admin` directory selected. The main editor area shows the content of `background_migrations_controller.rb`:

```
1 # frozen_string_literal: true
2
3 class Admin::BackgroundMigrationsController < Admin::ApplicationController
4   feature_category :database
5
6   def index
7     @relations_by_tab = {
8       'queued' => batched_migration_class.queued.queue_order,
9       'failed' => batched_migration_class.failed.queue_order,
10      'finished' => batched_migration_class.finished.queue_order.reverse_order
11    }
12
13    @current_tab = @relations_by_tab.key?(params[:tab]) ? params[:tab] : 'queued'
14    @migrations = @relations_by_tab[@current_tab].page(params[:page])
15    @successful_rows_counts = batched_migration_class.successful_rows_counts(@migrations.map(&:id))
16  end
17
18  def pause
19    migration = batched_migration_class.find(params[:id])
20    migration.paused!
21  end
22 end
```

The bottom panel contains a terminal window with the following output:

```
ok: run: /workspace/gitlab-development-kit/services/rails-background-jobs: (pid 2232) 0s, normally down
ok: run: /workspace/gitlab-development-kit/services/rails-web: (pid 2233) 0s, normally down
ok: run: /workspace/gitlab-development-kit/services/sshd: (pid 2234) 0s, normally down
ok: run: /workspace/gitlab-development-kit/services/webpack: (pid 2235) 0s, normally down

=> GitLab will be available at http://127.0.0.1:3000.
master
SYNCING lefthook.yml
SERVED HOOKS: pre-push, prepare-commit-msg
Updated 1 path from the index
Awaiting port 3000... ok
Waiting for GitLab at https://3000-aqua-earwig-wpty7g9l.ws-eu16.gitpod.io .....
Mon 30 Aug 2021 07:06:16 PM UTC - GitLab is up (took ~0.5 minutes)
gitpod /workspace/gitlab (master) $
```



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background_migrations_contr... Groups - Explore - GitLab

3000-aqua-earwig-wpty7g9l.ws-eu16.gitpod.io/explore/groups

ws-77f99086-86dd-4849-a2fa-fbb53d7f2a00 17ms / 17 pg 0 gitaly 3ms / 9 redis 0 es 6ms / 1 external 603 | 648 | 1097 / 22 total Download groups

GitLab Menu Search GitLab

Groups

New group

Your groups **Explore public groups** Search by name Last created

G	GitLab Instance	Owner		0	1	1
H	H5bp	Owner	At corporis libero ut neque nisi dolores.	0	1	5
T	Twitter	Owner	Enim quis alias aut exa rationem natus.	0	1	5
F	Flightjs	Owner	Animi delecta m nam.	0	1	5
J	Jashkenas	Owner	Nisi voluptas qu itaque officia beatae.	0	1	5
C	Commit451	Owner	Quibusdam error itaque facere nostrum et dolores molestias.	0	1	5
G	Gnuwget	Owner	Sunt quis nisi perferendis nulla at aut.	0	1	5
G	Gitlab Org	Owner	Mollitia quos consequuntur ut et deleniti.	0	2	5



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Bossez léger 😜



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Merci Questions ?



Les choses à traiter (ceci n'est pas un slide)

- <https://www.gitpod.io/blog/local-app> (localhost is going remote)
 - <https://www.gitpod.io/docs/develop/local-companion>
- installer des extensions
- <https://www.gitpod.io/docs/prebuilds>
- <https://www.gitpod.io/blog/gitpodify/>
-

