

Best Practises



le wagon

@ssaunier

Versionning



Timeline





GitHub

Branching & Pull Requests

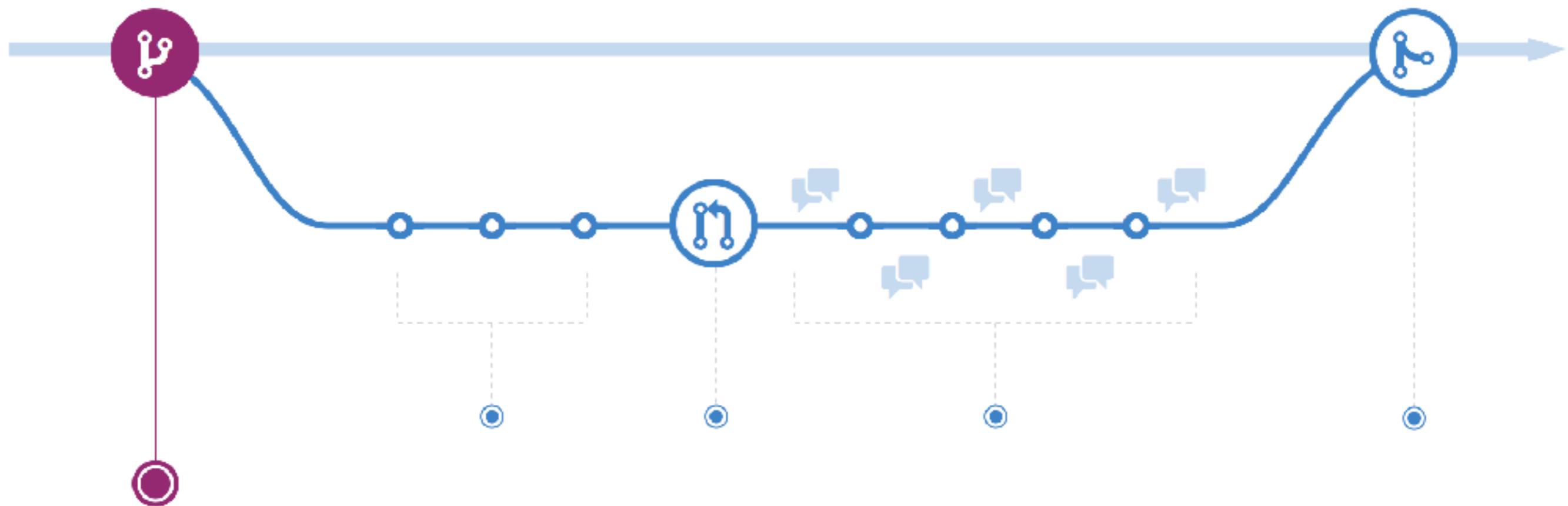


Let's look at the

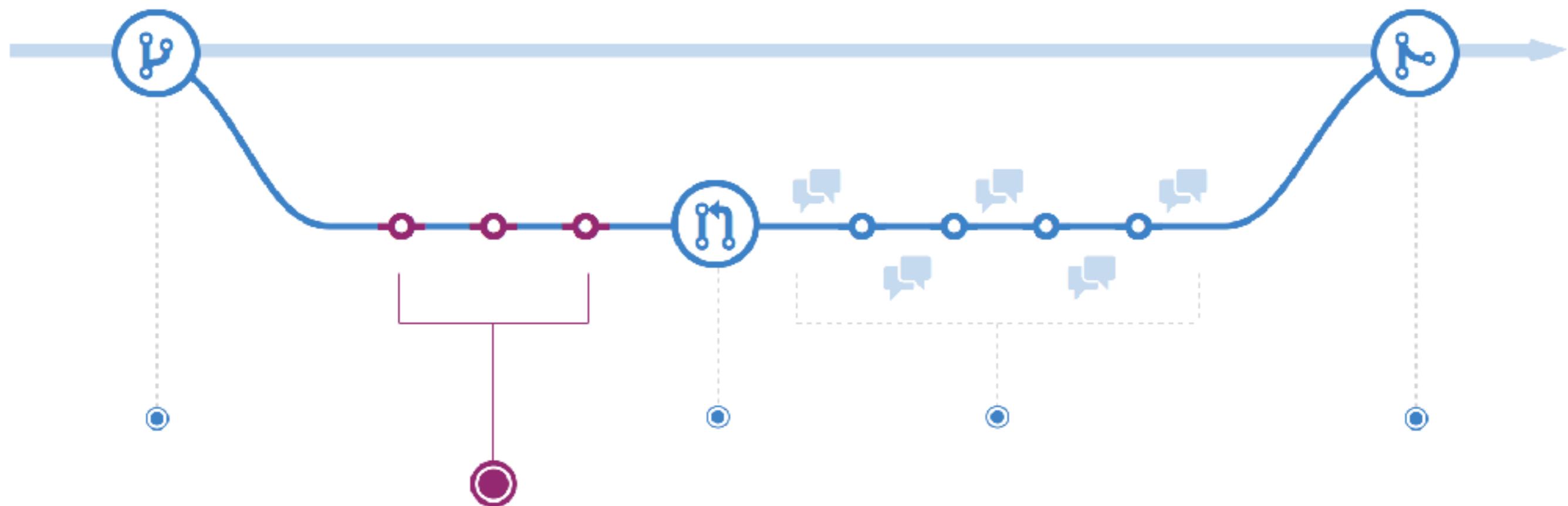
GitHub Flow

- <https://guides.github.com/introduction/flow/index.html>
- <http://scottchacon.com/2011/08/31/github-flow.html>

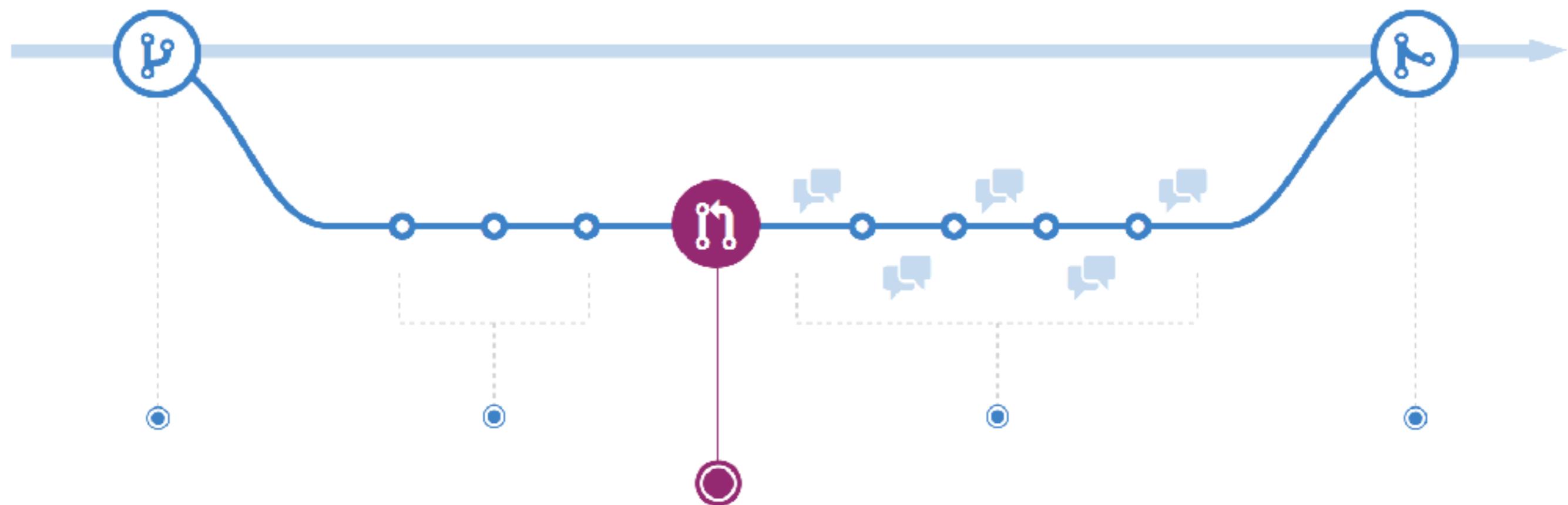
Create a branch



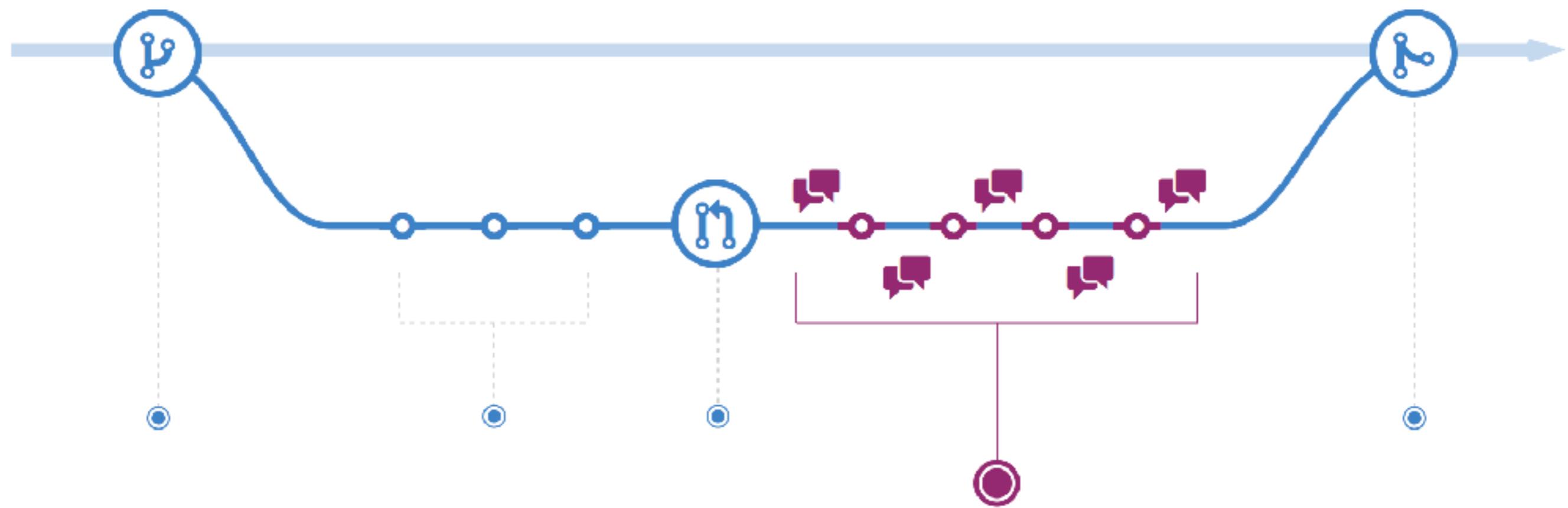
Work and Commit



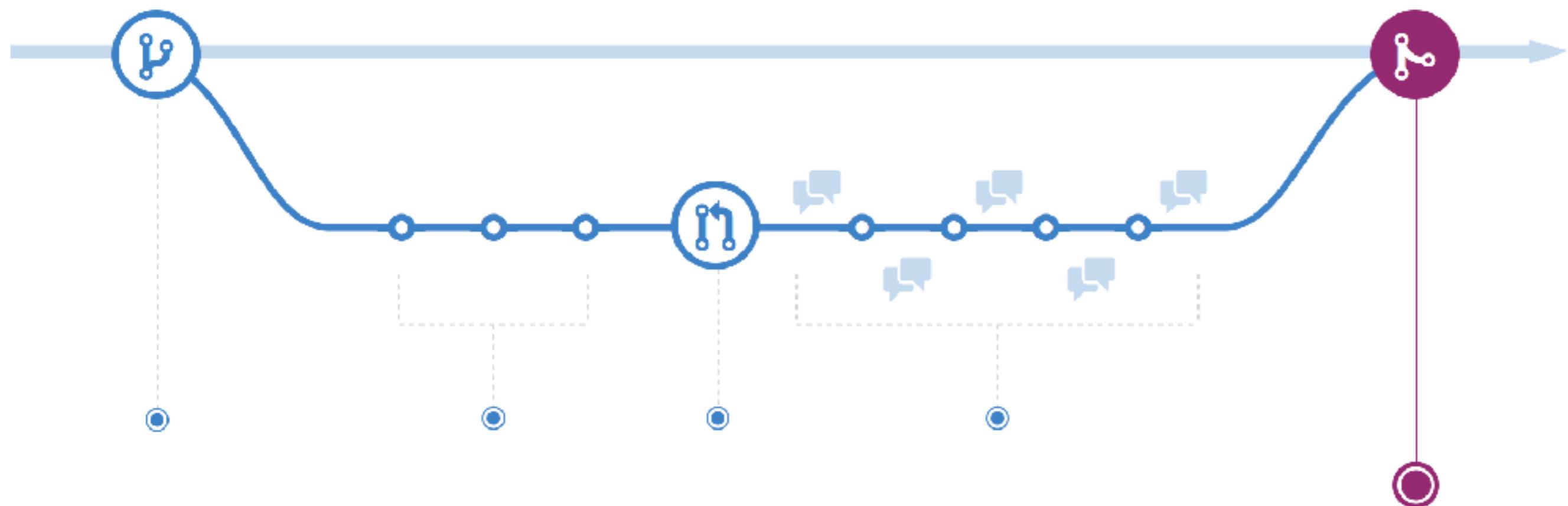
Open a Pull Request



Discuss and Review



Merge



What next?

Deployment



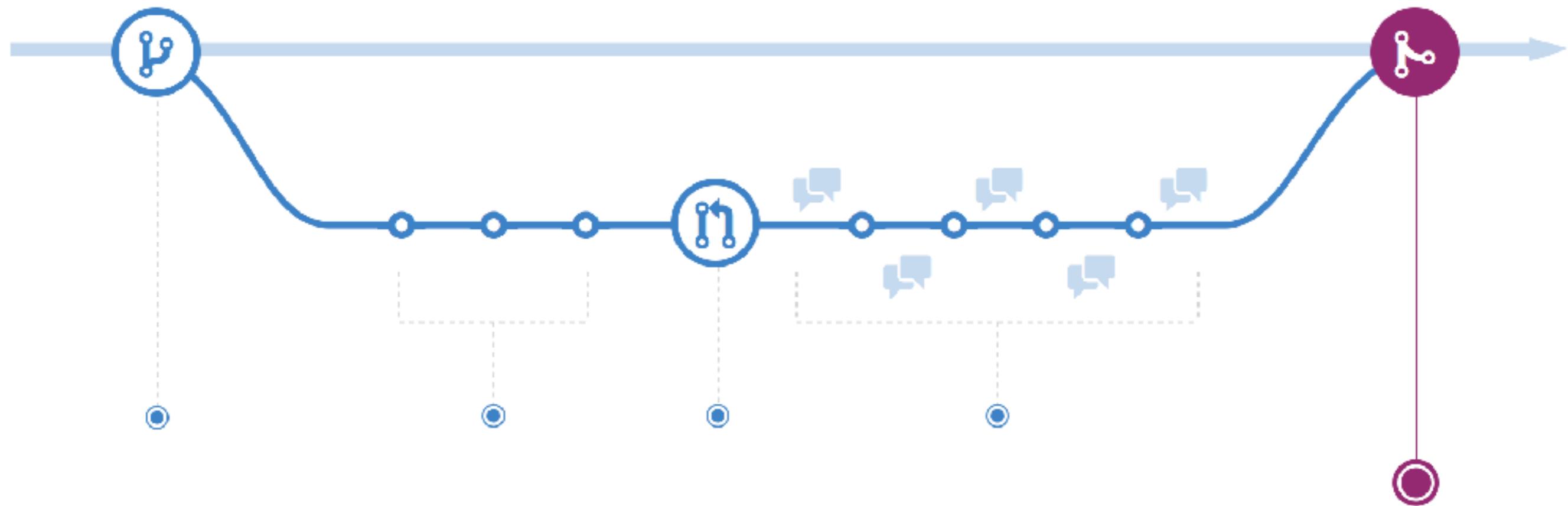


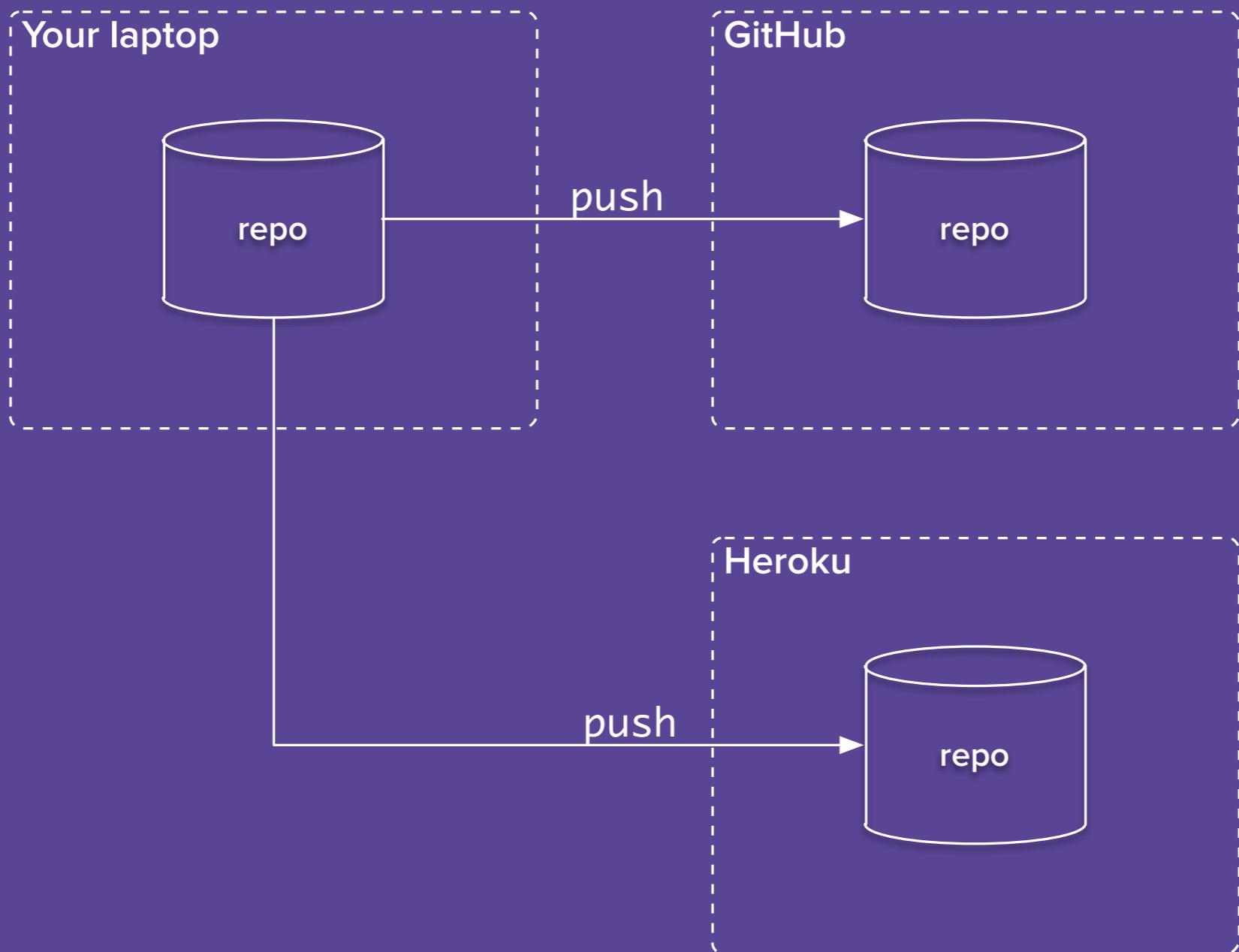


« Anything in the master branch is
deployable »

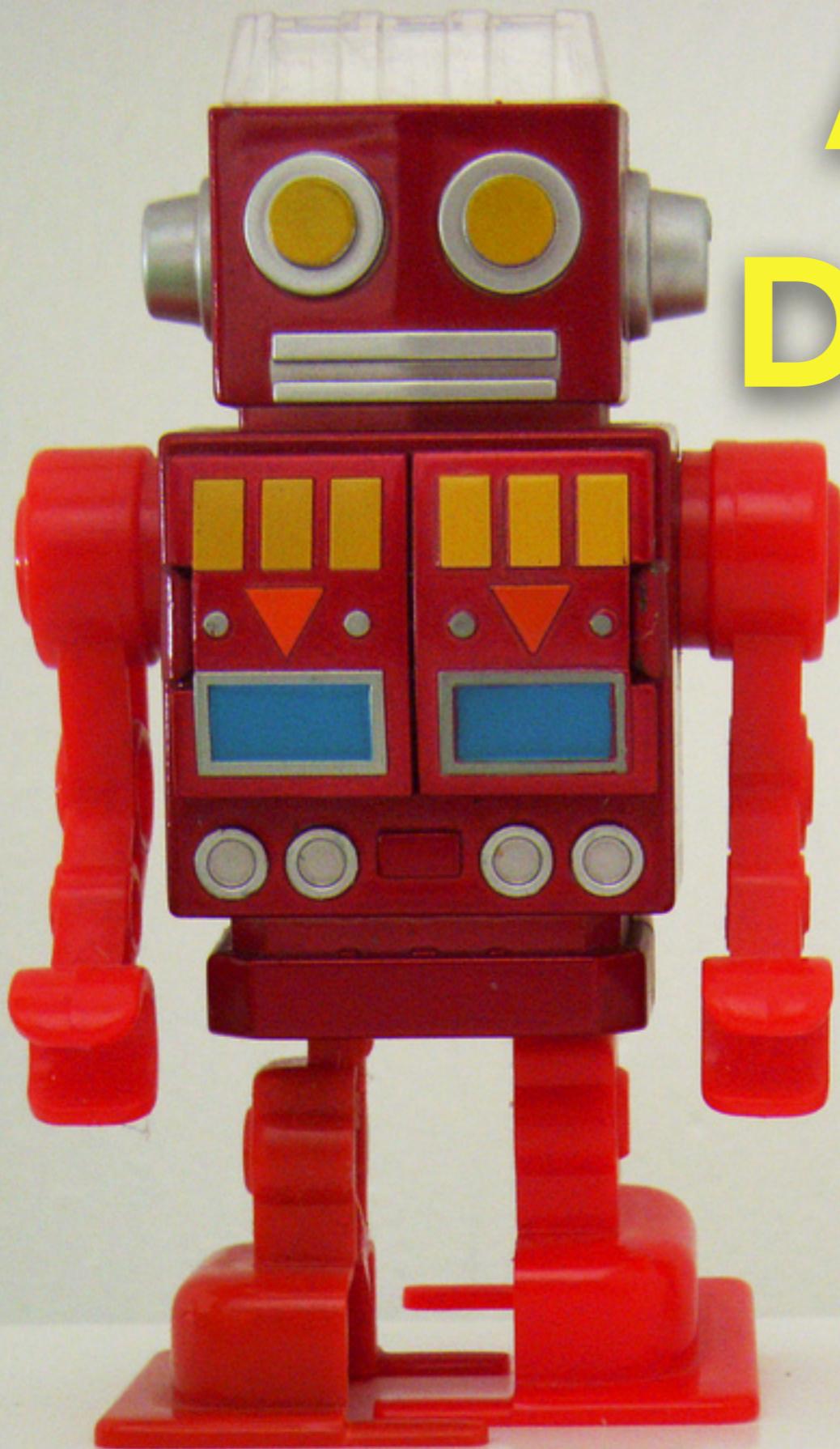
- Scott Chacon, 2011

master changed





Automated Deployment



a tool to automatically deploy
at every change
of the master branch

wagon-www-rails · GitHub

<https://dashboard.heroku.com/apps/wagon-www-rails/deploy/github>

Dashboard

sebastien.saunier@gmail.c...

FAVORITES

- wagon-alumni
- wagon-crm
- wagon-karr
- wagon-kitt
- wagon-on-demand
- wagon-www-rails

Personal apps

Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

Automatic deploys from `master` are enabled

Every push to `master` will deploy a new version of this app. Deploys happen automatically: be sure that this branch in GitHub is always in a deployable state and any tests have passed before you push. [Learn more](#).

Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

[Disable Automatic Deploys](#)

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more](#).

`master`

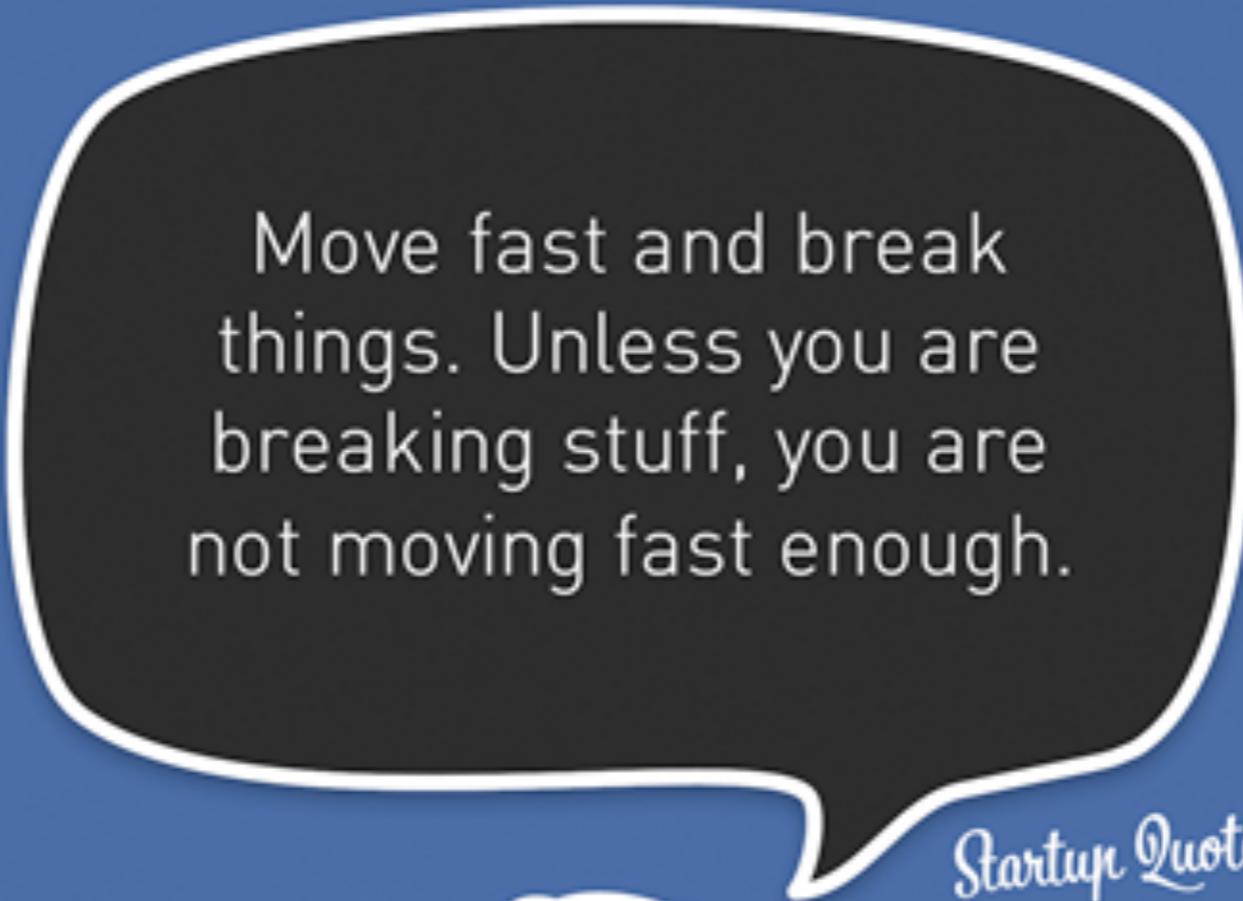


 Merge pull request

becomes the "Ship" button

A wide-angle photograph of a large industrial warehouse. The space is filled with tall, multi-tiered metal shelving units. Each shelf is densely packed with numerous cardboard boxes, many of which have "VINO" printed on them. The floor is a light-colored concrete or asphalt. The ceiling is high with a complex steel truss structure and several long, bright fluorescent light fixtures. In the far distance, a forklift is visible moving along the aisle between the shelving units.

Ship Often



Move fast and break things. Unless you are breaking stuff, you are not moving fast enough.

Startup Quote!



MARK ZUCKERBERG

CO-FOUNDER, FACEBOOK

What if you break something?



Rollback!



wagon-www-rails · Activity

<https://dashboard.heroku.com/apps/wagon-www-rails/activity>

Dashboard Apps wagon-www-rails ★

sebastien.saunier@gmail.c... Resources Deploy Metrics Activity Access Settings

FAVORITES

- wagon-alumni
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- wagon-on-demand
- wagon-www-rails

Personal apps

Activity Feed

sebastien.saunier@gmail.com: Deployed 8bc3aa5
4 days ago • v279 • [Compare diff](#)

sebastien.saunier@gmail.com: Build succeeded
4 days ago • [View build log](#)

sebastien.saunier@gmail.com: Deployed 7452995
5 days ago • v278 • [Roll back to here](#) [Compare diff](#)

sebastien.saunier@gmail.com: Build succeeded
5 days ago • [View build log](#)

sebastien.saunier@gmail.com: Deployed 6a34ed6
5 days ago • v277 • [Roll back to here](#) • [Compare diff](#)

sebastien.saunier@gmail.com: Build succeeded
5 days ago • [View build log](#)

Testing



apply_spec.rb — www

UNREGISTERED

```
1 require "rails_helper"
2
3 RSpec.describe "Apply process", type: :feature do
4   it "fails if motivation is too short (in English)" do
5     visit '/apply/paris'
6
7     default_identity
8     fill_in "source", with: "Google"
9     fill_in 'motivation', with: 'Not motiviated enough...'
10    click_button '_apply_btn'
11
12    expect(page.current_path).to eq "/apply/paris"
13    expect(page).to have_selector(".error", text: "is too short")
14  end
15
16  it "fails if motivation is too short (in French)" do
17  end
18
19  it "works if motivation is > 140 characters (in French)" do
20  end
21
22  it "works if motivation is > 140 characters (in English)" do
23  end
24
25  def default_identity
26  end
27
28  end
29
30  default_identity
31
32  end
33
34  end
35
36  end
37
38  end
39
40  end
41
42  end
43
44  end
45
46  end
47
48  end
49
50  end
51
52  end
53
54  end
55
56  end
57
58  end
59
60  end
61
62  end
63
64  end
65
66
```

Apply to Le Wagon Paris - https://www.lewagon.com/apply/paris

CITIES PROGRAM FAC ALUMNI STORIES BLOG ApplyNow

Paris London Brussels Amsterdam Lisbon Copenhagen São Paulo Berlin Bordeaux Lyon Aix-Marseille Nantes

Apply to Paris October 10, 2015 - December 7, 2016

First name: Alain
Last name: Turing
Age: 42
Email: slan@turing.com
Phone: +33612345678
Reference: Who recommended Le Wagon to your Course, Facilitator, a friend?
Motivation: Why Le Wagon? What is your professional project?

French in French
Price: 8.900 €

Apply in Paris

```
www — seb@Macbook — zsh
..e/lewagon/www
[→ www git:(master) rake [2.3.0]
/usr/local/opt/rbenv/versions/2.3.0/bin/ruby -I/usr/local/opt/rbenv/versions/2.3.0/lib/ruby/gems/2.3.0/gems/rspec-core-3.3.2/lib:
/usr/local/opt/rbenv/versions/2.3.0/lib/ruby/gems/2.3.0/gems/rspec-support-3.3.0/lib /usr/local/opt/rbenv/versions/2.3.0/lib/ruby
/gems/2.3.0/gems/rspec-core-3.3.2/exe/rspec --pattern spec/\*\*\{,\*/\*/\*/\}/\*_spec.rb

Alumni
  works in French
  works in English

Apply process
  fails if motivation is too short (in English)
  fails if motivation is too short (in French)
  works if motivation is > 140 characters (in French)
  works if motivation is > 140 characters (in English)

City page
  for Paris
    works in French
    works in English

Home
  works in French
  works in English

Program
  works in French
  works in English

Finished in 11.89 seconds (files took 2.37 seconds to load)
12 examples, 0 failures

→ www git:(master) [2.3.0]
```

GitHub

+



Travis CI

**TravisCI automatically test
every commit pushed on
every branch**

Builds - lewagon/www - Travis CI

<https://travis-ci.org/lewagon/www/builds>

Travis CI Blog Status Help 90% Reset [Logout](#)

Search all repositories

lewagon / www

build passing

My Repositories

✓ lewagon/www	# 499
⌚ Duration: 3 min 36 sec	
[] Finished: less than a minute ago	
✓ ssaunier/github_webhook	# 37
⌚ Duration: 1 min 44 sec	
[] Finished: 7 days ago	
✓ ssaunier/markdown_cache	# 6
⌚ Duration: 54 sec	
[] Finished: 17 days ago	
✓ ssaunier/trello_webhook	# 1
⌚ Duration: 1 min	
[] Finished: about a year ago	
✓ ssaunier/round_robin_tournament	# 6
⌚ Duration: 18 sec	
[] Finished: 2 years ago	
✓ ssaunier/got_fixed	# 53

Current Branches **Build History** Pull Requests More options

Branch	Description	Status	Time
rake-task-to-feed-test-trello	Rake task to feed test trello board	#498 passed	⌚ 3 min 44 sec about 2 hours ago
master	New press issues	#497 passed	⌚ 3 min 44 sec 4 days ago
master	Better CSS for about page	#496 passed	⌚ 4 min 23 sec 5 days ago
master	About page with Pitch Deck slideshare	#495 passed	⌚ 3 min 40 sec 5 days ago
master	Merge pull request #230 from lewagon/required-referrer	#494 passed	⌚ 3 min 50 sec 7 days ago
required-referrer	Fix specs (for real)	#492 passed	⌚ 4 min 12 sec 7 days ago
required-referrer	Fix specs	#490 failed	⌚ 3 min 37 sec 8 days ago
required-referrer	Require referrer when one applies	#488 failed	⌚ 4 min 1 sec

wagon-www-rails · Github

<https://dashboard.heroku.com/apps/wagon-www-rails/deploy/github>

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`master`

[Deploy Branch](#)

Now we have

Continuous Deployment

Advantages

- Reduced Deployment Risk
- Real Progress (**Done**)
- User Feedback

What if I have a Database?



Backups

Rollback Data!



```
heroku pg:backups schedule DATABASE_URL --at '02:00 Europe/London'
```

```
heroku pg:backups
```

==== Backups					
ID	Backup Time	Status		Size	Database
b013	2015-03-18 19:03:16 +0000	Running			IVORY
b011	2015-02-18 17:55:38 +0000	Finished	2015-02-18 17:55:39 +0000	1.9GB	IVORY
b010	2015-02-17 19:14:43 +0000	Finished	2015-02-17 19:14:48 +0000	1.9GB	IVORY
b004	2015-02-11 19:00:55 +0000	Finished	2015-02-17 19:14:48 +0000	1.9GB	IVORY

===== Restores					
ID	Restore Time	Status		Size	Database
r002	2015-03-16 17:33:19 +0000	Finished	2015-03-16 17:33:19 +0000	1.9GB	IVORY
r001	2015-03-15 12:13:44 +0000	Failed	2015-03-15 12:13:47 +0000	1.7GB	IVORY

```
heroku pg:backups restore b111
```

Monitoring



Uptime Robot https://uptimerobot.com

UptimeRobot

About F.A.Q Support Blog Sign-up (free) Login

Downtime Happens. Get Notified!

50 Monitors, Checked Every 5 Minutes, Totally Free.

(Need 1-minute checks and/or more monitors?)

Start Monitoring (in 30 secs)

+ Add New Monitor

Sort Monitors Last 24 Hours 15 17 19 21 23 1 3 5 7 9 11 13

SSLmatic Site My Blog SmashingMag Yahoo - Ping Google - Ping Reddit AWS API

Account Dashboard details about the account

A place to find all the details about your monitors

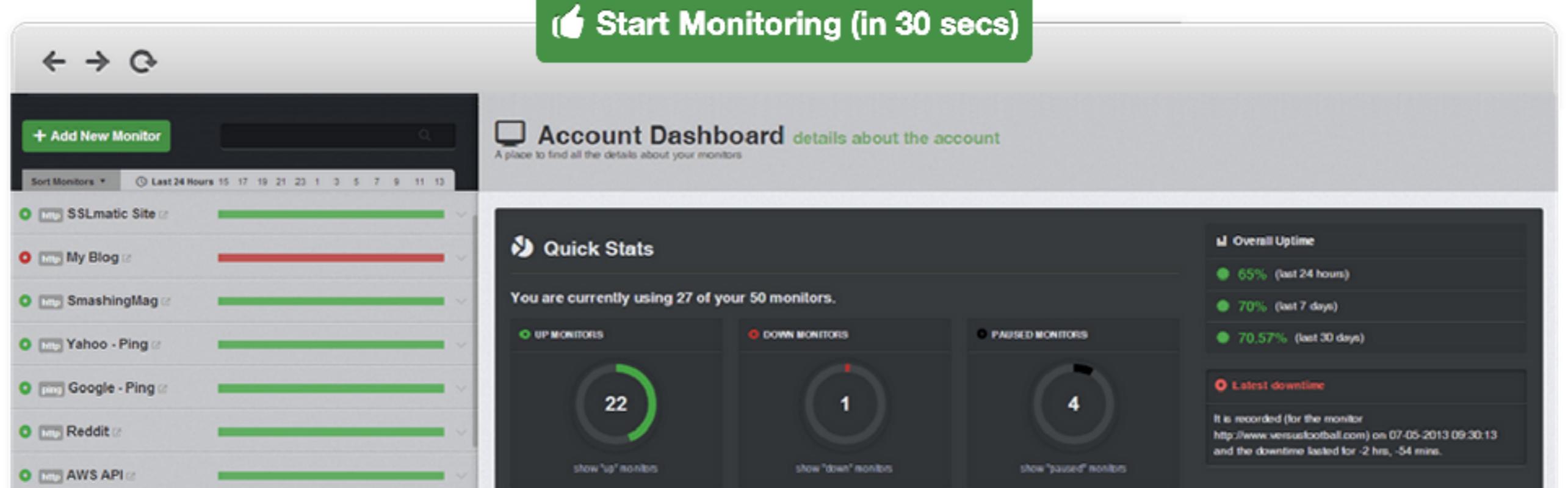
Quick Stats

You are currently using 27 of your 50 monitors.

UP MONITORS: 22 DOWN MONITORS: 1 PAUSED MONITORS: 4

Overall Uptime: 65% (last 24 hours), 70% (last 7 days), 70.57% (last 30 days)

Latest downtime: It is recorded (for the monitor http://www.versusfootball.com) on 07-05-2013 09:30:13 and the downtime lasted for -2 hrs, -54 mins.



>Add-ons - Heroku Elements X

https://elements.heroku.com addons#errors-exceptions

Errors and Exceptions

Find and stop errors before they become a problem.



Rollbar

High performance error tracking for developers.



Sentry

Sentry provides real-time crash reporting for your web and mobile apps.



Bugsnag

Intelligent exception monitoring for your apps



RuntimeError

Track and manage your runtime errors directly in Github



Honeybadger

Modern error management and performance monitoring for web



AppSignal

Improve performance, debug errors and track deploys for your Ruby on Rails



Exceptiontrap

Powerful & intelligent error tracking and exception monitoring from Germany.



Airbrake Bug Tracker

A powerful bug tracker software captures bugs so you fix them fast



Raygun

Real time error reporting you can set up in under 5 minutes!

Application - wagon-www-rails

https://app.raygun.io/crashreporting/khiz5b?#active

Heroku Add-ons wagon-www-rails → Resources Activity Access Settings Raygun → Docs

Applications Heroku > wagon-www-rails Sébastien Saunier

wagon-www-rails Add filter

Crash Reporting Settings Pulse Users Deployments

search

Crash Reporting

Pulse

Users

Deployments

Application settings

Integrations

Invite team

Feedback

Thu 21st Fri 22nd Sat 23rd Apr 24th Mon 25th Tue 26th Wed 27th

My errors 0 Active 5 Resolved 0 Ignored 1 Permanently ignored 1

Message	Time occurred	Count
500 Internal Server Error	a few seconds ago	16
503 Service Unavailable	3 days ago	4
could not obtain a database connection within 5.000 seconds (waited 5.000 second...)	3 days ago	10