

GitHub

Who are we?



Stijn Van Hoey

 Twitter

 GitHub



Peter Desmet

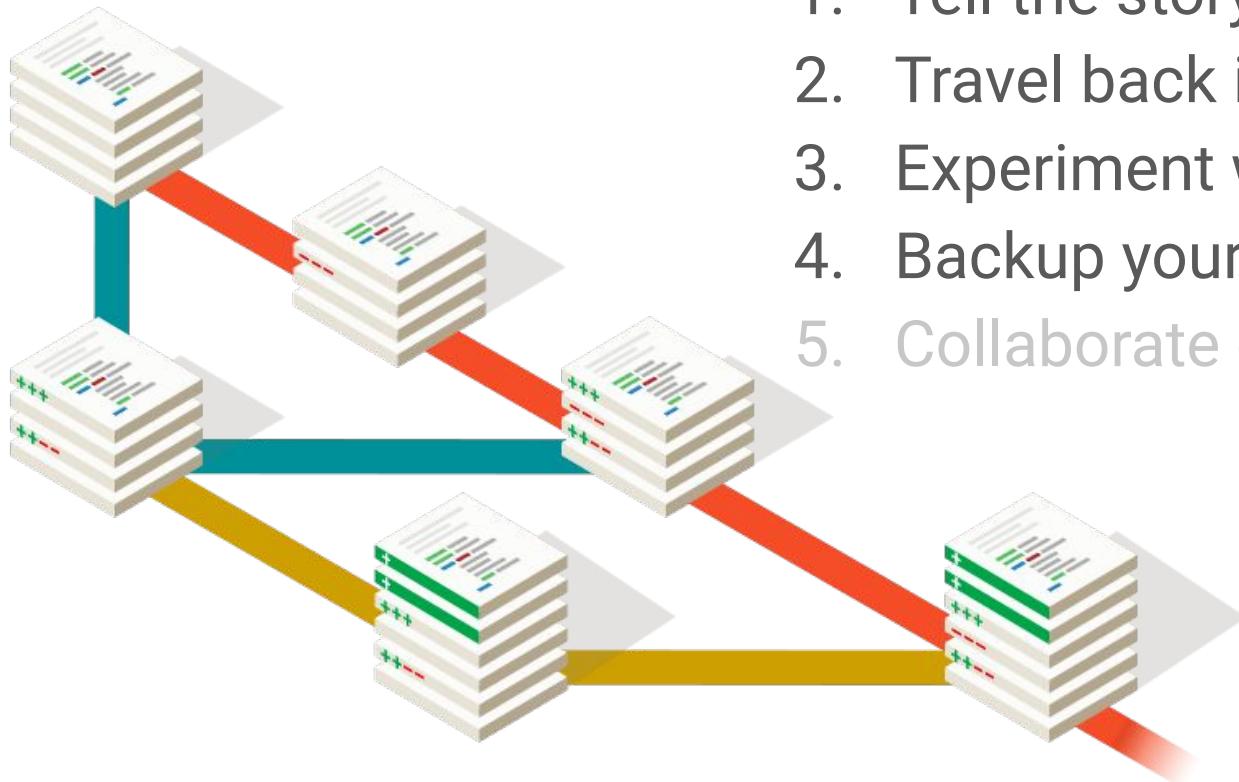
 Twitter

 GitHub

WHAT CODE* COULD
BE BENEFICIAL FOR
OTHERS IN THE TEAM?

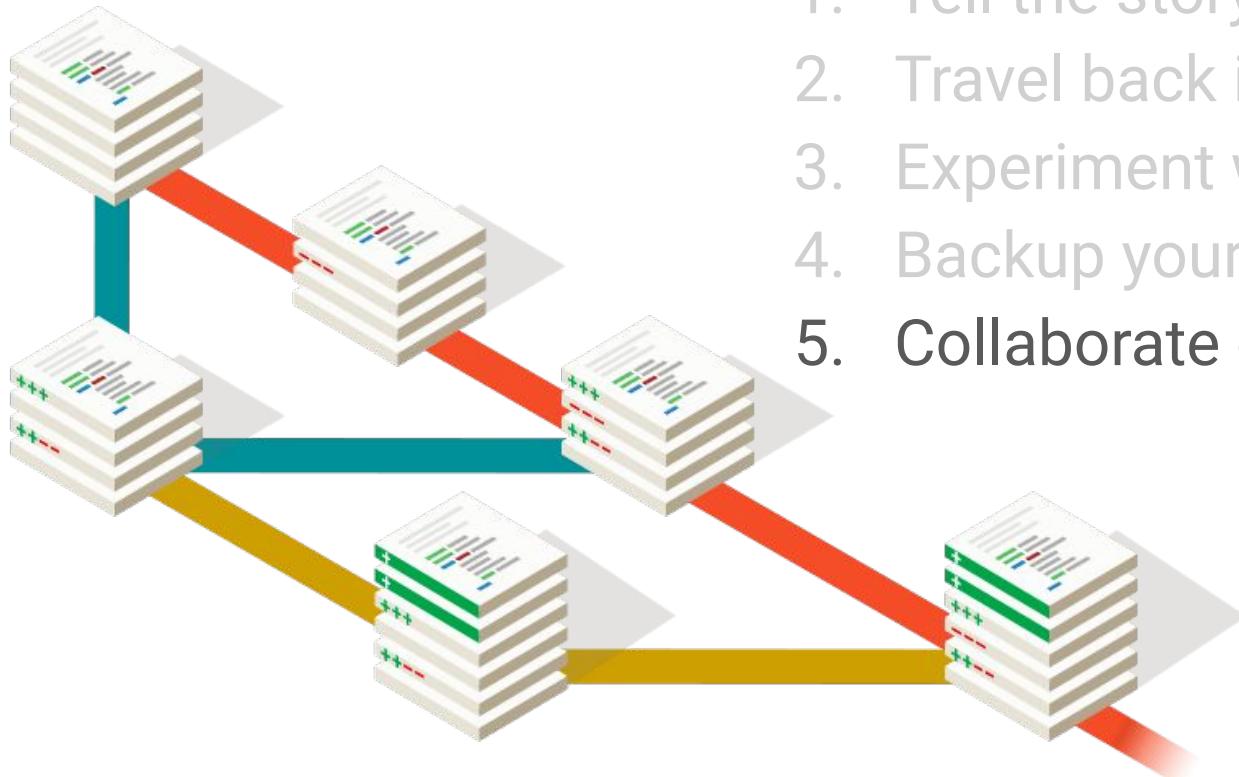
* COULD BE... PLOT FUNCTION, BASH-TRICK, TEX TEMPLATE .STY, GUIDELINE, MODEL, STATISTICAL ANALYSIS, DATA CLEANING, TIME SERIES FILTERING,...

Version control...



1. Tell the story of your project 
2. Travel back in time 
3. Experiment with changes 
4. Backup your work  
5. Collaborate on projects  

Version control...



1. Tell the story of your project 
2. Travel back in time 
3. Experiment with changes 
4. Backup your work  
5. Collaborate on projects  

The principles explained in the Git part can be further extended towards collaboration

Remotes mean other people can access your project and commits tell other people the story of your project

GitHub provides much more functionality than just being a **remote** repository



Not only for coders!



Showcases · GitHub Person 1

GitHub, Inc. [US] https://github.com/showcases

Personal Open source Business Explore Pricing Blog Support Search GitHub Sign in Sign up

Explore GitHub Showcases Integrations Trending

Open source showcases

Browse popular repositories based on the topic that interests you most.

Sign up for free to get started

Search showcases

Science
Scientists around the world are working together to solve some of the biggest questions in research. Take a look at some of the examples featured here to find out more.
12 repositories 5 languages

Data visualization
Data visualization tools for the web.
26 repositories 5 languages

Open data
Examples of using GitHub to store, publish, and collaborate on open, machine-readable datasets.
9 repositories 3 languages

Anatomy of a repository

GitHub - tdwg/abcd: Access to Biological Collection Data

Person 1

← → ⌂ GitHub, Inc. [US] https://github.com/tdwg/abcd

Personal Open source Business Explore Pricing Blog Support This repository Search Sign in Sign up

tdwg / abcd Watch 8 Star 2 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Pulse Graphs

Access to Biological Collection Data http://tdwg.github.io/abcd/ABCD_v206.html

8 commits 2 branches 1 release 2 contributors

Branch: master ▾ New pull request Find file Clone or download ▾

DavidFichtmueller committed on GitHub Schema file added ... Latest commit cf213d2 on 8 Sep

ABCD_2.06.xsd Schema file added 3 months ago

ABCD_v206.html Migrate download file 2 years ago

README.md Use version instead of release a year ago

README.md

Access to Biological Collection Data (ABCD)

- Download: [Download](#)
- Status: TDWG current (2005) standard

GitHub - tdwg/abcd: Access to Biological Collection Data

Person 1

← → ⌂ GitHub, Inc. [US] https://github.com/tdwg/abcd

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GitHub - tdwg/abcd: Access to Biological Collection Data

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tdwg / abcd

Code Issues 0 Pull requests 0 Projects 0 Pulse Graphs

Watch 8 Star 2 Fork 0

Access to Biological Collection Data <http://tdwg.github.io/abcd>

8 commits 2 branches

Branch: master ▾ New pull request

Recent Home GitHub abcd

Home Desktop Documents Downloads

DavidFichtmueller committed on GitHub Schema file added ...

Latest commit cf213d2 on 8 Sep

ABCD_2.06.xsd Schema file added 3 months ago

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README.md

ABCD_2.06.xsd ABCD_v206.html README.md

ABCD_2.06.xsd

ABCD_v206.html

README.md

Access to Biological Collection Data (ABCD)

- Download: [Download](#)
- Status: TDWG current (2005) standard

GitHub - tdwg/abcd: Access to Biological Collection Data

Person 1

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Personal Open source Business Explore Pricing Blog Support This repository Search Sign in Sign up

tdwg / abcd

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README.md Use version instead of release a year ago

README.md

Access to Biological Collection Data (ABCD)

- Download: [Download](#)
- Status: TDWG current (2005) standard

Online editing*

* commit, pull request,... on the background (GitHub as online webapp)

GitHub - tdwg/abcd: Access to

Person 1

GitHub, Inc. [US] | https://github.com/tdwg/abcd

This repository Search

Pull requests Issues Gist

Watch 8 Star 2 Fork 1

Code Issues 1 Pull requests 0 Projects 0 Pulse Graphs

Access to Biological Collection Data http://tdwg.github.io/abcd/ABCD_v206.html

8 commits 2 branches 1 release 2 contributors

Branch: master New pull request Find file Clone or download

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ABCD_2.06.xsd Schema file added 3 months ago

ABCD_v206.html Migrate download file 2 years ago

README.md Use version instead of release a year ago

README.md

The screenshot shows a GitHub repository page for 'abcd/README.md' at the 'master' branch. The page includes a header with navigation, search, and repository stats (8 pull requests, 2 stars, 1 fork). Below the header are tabs for Code, Issues (1), Pull requests (0), Projects (0), Wiki, Pulse, and Graphs. The main content area shows the README.md file with a commit by 'peterdesmet' dated 23 Jul 2015. The file contains 23 lines (15 sloc) and is 1.66 KB. There are buttons for Raw, Blame, History, and file download/icon actions.

abcd/README.md at master

Pull requests Issues Gist

Watch 8 Star 2 Fork 1

Code Issues 1 Pull requests 0 Projects 0 Wiki Pulse Graphs

Branch: master abcd / README.md Find file Copy path

peterdesmet Use version instead of release 6f09f79 on 23 Jul 2015

1 contributor

Edit the file in your fork of this project

23 lines (15 sloc) | 1.66 KB

Raw Blame History

Access to Biological Collection Data (ABCD)

- Download: [Download](#)
- Status: TDWG current (2005) standard
- Category: Technical specification

Editing abcd/README.md at master

Person 1

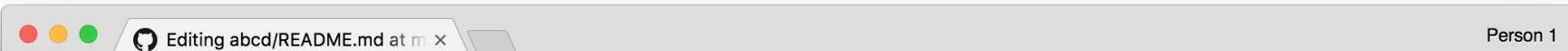
GitHub, Inc. [US] | https://github.com/tdwg/abcd/edit/master/README.md

You're editing a file in a project you don't have write access to. Submitting a change to this file will write it to a new branch in your fork stijnvanhoey/abcd, so you can send a pull request.

abcd / README.md or cancel

Edit file Preview changes Spaces ▾ 2 ▾ Soft wrap ▾

```
1 # Access to Biological Collection Data (ABCD)
2
3 * **Download**: [Download](https://github.com/tdwg/abcd/archive/master.zip)
4 * **Status**: TDWG current (2005) standard
5 * **Category**: Technical specification
6 * **Permanent URL**: http://www.tdwg.org/standards/115
7 * **TDWG task group**: Access to Biological Collections Data
8 * **Date submitted**: 2006-11-24
9 * **Date published**: 2005-09-16
10 * **Last modified**: 2007-08-21
11
12 ## Abstract
13
14 The Access to Biological Collections Data (ABCD) Schema is an evolving comprehensive standard for the access to and exchange of data about specimens and observations (a.k.a. primary biodiversity data).
15
16 The ABCD Schema attempts to be comprehensive and highly structured, supporting data from a wide variety of databases. It is compatible with several existing data standards. Parallel structures exist so that either (or both) atomised data and free-text can be accommodated. Version 1.2 is currently in use with the [GBIF](http://www.gbif.org) (Global Biodiversity Information Facility) and [BioCASE]
```



You're editing a file in a project you don't have write access to. Submitting a change to this file will write it to a new branch in your fork [stijnvanhoey/abcd](#), so you can send a pull request.

[abcd](#) / README.md or [cancel](#)

[Edit file](#)

[Preview changes](#)

Spaces

2

Soft wrap

Abstract

The Access to Biological Collections Data (ABCD) Schema is an evolving comprehensive standard for the access to and exchange of data about specimens and observations (a.k.a. primary biodiversity data).

The ABCD Schema attempts to be comprehensive and highly structured, supporting data from a wide variety of databases. It is compatible with several existing data standards. Parallel structures exist so that either (or both) atomised data and free-text can be accommodated. Version 1.2 is currently in use with the [GBIF](#) (Global Biodiversity Information Facility) and [BioCASEe](#) (Biological Collection Access Service for Europe) networks.

Apart from the GBIF and BioCASEe networks, the potential for the application of ABCD extends to internal networks, or in-house legacy data access (e.g. datasets from external sources that shall not be converted and integrated into an institution's own data, but be kept separately, though easily accessible). By defining relations between terms, ABCD is a step towards an ontology for biological collections.



Commit changes

Update command line instruction

Add an optional extended description...

- ➔ Commit directly to the `master` branch.
- ⚡ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel

YOU ARE OWNER OR
COLLABORATOR OF
THIS REPO



Propose file change

💡 **ProTip!** Great commit summaries are 50 characters or less. Place extra information in the extended description.

Added links to GBIF & BioCASE + correct BioCASE spelling

Add an optional extended description...

Propose file change

Cancel

YOU PROPOSE AN
ADAPTATION TO A
'FOREIGN' REPO

GitHub - tdwg/abcd: Access to 

Person 1

GitHub, Inc. [US] | <https://github.com/tdwg/abcd>

This repository Search Pull requests Issues Gist

Watch ▾ 8 Star 2 Fork 1

Code Issues 1 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

abcd /

Drag files here to add them to your repository
Or choose your files

Uploading 1 of 1 files

Issues

Issues · tdwg/abcd

Person 1

GitHub, Inc. [US] | https://github.com/tdwg/abcd/issues

This repository Search

Pull requests Issues Gist

Watch 8 Star 2 Fork 0

Code Issues 1 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

Filters is:issue is:open Labels Milestones New issue

1 Open 2 Closed Author ▾ Labels ▾ Milestones ▾ Assignee ▾ Sort ▾

ⓘ Links to rs.tdwg.org/abcd return 404 #4 opened 43 minutes ago by stijnvanhoey

💡 ProTip! What's not been updated in a month: updated:<2016-11-01.

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Contact GitHub API Training Shop Blog About

Links to rs.tdwg.org/abcd return 404 return 404

Person 1

GitHub, Inc. [US] | https://github.com/tdwg/abcd/issues/4

This repository Search Pull requests Issues Gist

tdwg / abcd Watch 8 Star 2 Fork 0

Code Issues 1 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

Links to rs.tdwg.org/abcd return 404 #4

Open stijnvanhoeuy opened this issue 43 minutes ago · 0 comments

stijnvanhoeuy commented 43 minutes ago

Contributor +

On http://tdwg.github.io/abcd/ABCD_v206.html I clicked the first link (<http://rs.tdwg.org/abcd/>) and noticed it returns a 404. Does http://rs.tdwg.org/abcd still exist?

Projects None yet

Labels None yet

Milestone No milestone

Assignees No one—assign yourself

Write Preview

Leave a comment

Links to rs.tdwg.org/abcd return 404 x Person 1

← → ⌂ GitHub, Inc. [US] | https://github.com/tdwg/abcd/issues/4

This repository Search Pull requests Issues Gist

tdwg / abcd Watch 8 Star 2 Fork 0

Code Issues 1 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

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Open stijnvanhoeij opened this issue 43 minutes ago · 0 comments

stijnvanhoeij commented 43 minutes ago Contributor +
On http://tdwg.github.io/abcd/ABCD_v206.html I clicked the first link (<http://rs.tdwg.org/abcd/>) and noticed it returns a 404. Does http://rs.tdwg.org/abcd still exist?

Projects None yet

Labels None yet

Milestone No milestone

Assignees No one—assign yourself

1 participant

Write Preview

AA B i “ “ “ “ @

Seems like a task for the @tdwg/inf

tdwg/infrastructure TDWG infrastructure

tdwg/bii Biodiversity Information Initiatives contributors

tdwg/curriculum Biodiversity Informatics Curriculum interest group

tdwg/delta Description Language for Taxonomy contributors

Attach files by dragging & dr

Links to rs.tdwg.org/abcd return 404 #4

GitHub, Inc. [US] | https://github.com/tdwg/abcd/issues/4

This repository Search Pull requests Issues Gist

tdwg / abcd Watch 8 Star 2 Fork 0

Code Issues 1 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

stijnvanhoe opened this issue 44 minutes ago · 1 comment

stijnvanhoe commented 44 minutes ago

On http://tdwg.github.io/abcd/ABCD_v206.html I clicked the first link (<http://rs.tdwg.org/abcd/>) and noticed it returns a 404. Does http://rs.tdwg.org/abcd still exist?

peterdesmet commented just now

Seems like a task for the @tdwg/infrastructure!

Write Preview AA B i “ < > Leave a comment

Projects None yet Labels

Apply labels to this issue

Filter labels

bug

duplicate

enhancement

help wanted

Links to rs.tdwg.org/abcd return 404

Person 1

← → ⌂ GitHub, Inc. [US] https://github.com/tdwg/abcd/issues/4

stijnvanhoeij commented 44 minutes ago

Contributor + 🎨 🖊

On http://tdwg.github.io/abcd/ABCD_v206.html I clicked the first link (<http://rs.tdwg.org/abcd/>) and noticed it returns a 404. Does http://rs.tdwg.org/abcd still exist?

peterdesmet commented just now

Member + 🎨 🖊 ✎

Seems like a task for the @tdwg/infrastructure!

peterdesmet added the bug label just now

bug

Assignees

Assign up to 10 people to this issue

mdoe

✓ mdoering Markus Döring

Notifications

Unsubscribe

You're receiving notifications because you're on a team that was mentioned.

Lock conversation

Write Preview

AA B i “ < > ↵

Leave a comment

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Styling with Markdown is supported

Close issue Comment

Labels · tdwg/abcd Person 1

GitHub, Inc. [US] https://github.com/tdwg/abcd/labels

This repository Search

Pull requests Issues Gist

Watch 8 Star 2 Fork 0

Code Issues 1 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

New label

quick-to-fix #fbca04 Cancel Create label

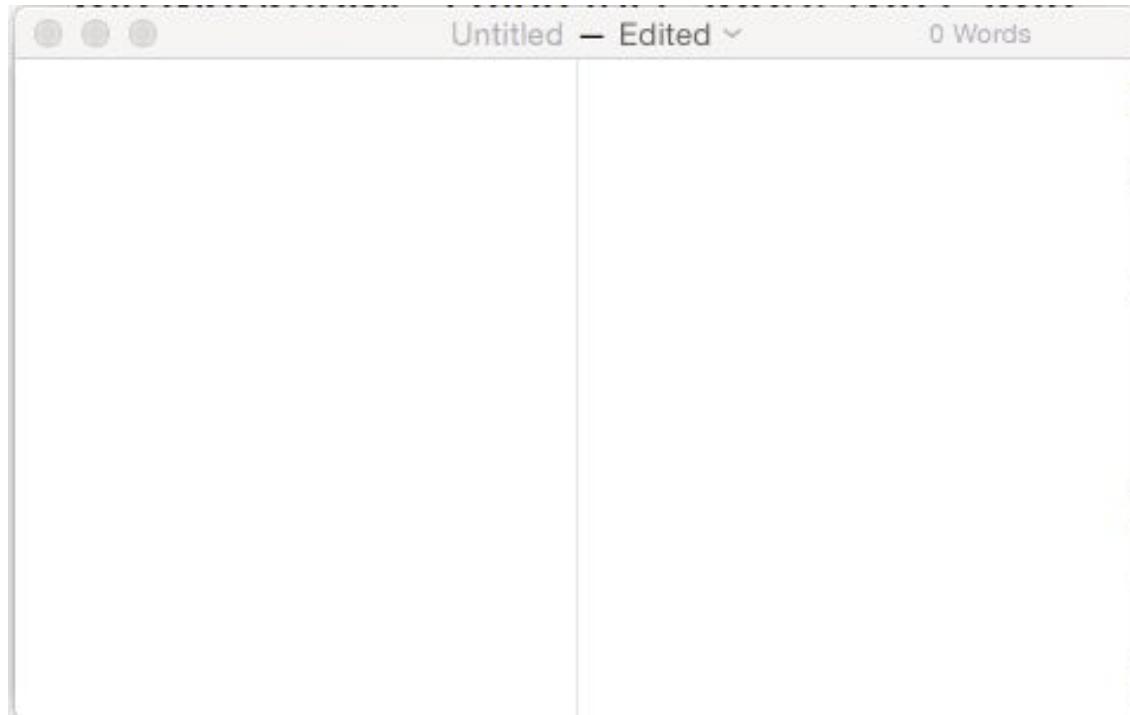
7 labels Sort ▾

Label	Issues	Actions
bug	0 open issues	Edit Delete
duplicate	0 open issues	Edit Delete
enhancement	0 open issues	Edit Delete
help wanted	0 open issues	Edit Delete



MARKDOWN?!?





To learn the syntax, check [mastering-markdown...](#)

GitHub - remote *with benefits*

issues - report todos to yourself/team

Working together on code*



* code in a broad: also guidelines, latex documents, markdown...

Working at the same time with
multiple people on the same code
requires workflows to avoid conflicts

Many **workflows** are possible, we will focus on two of them, based on the so-called *GitHub workflow*

1. You, within your team
2. You, contributing to open source

1. Small team collaboration





personal
computer



GitHub

remote



calculation
cluster
university



Consider the
personal workflow
with a cluster



personal
computer
Peter



remote
GitHub



personal
computer
Stijn



We can
interchange the
cluster with a
second team
member



personal
computer
Peter



GitHub

remote



personal
computer
Stijn



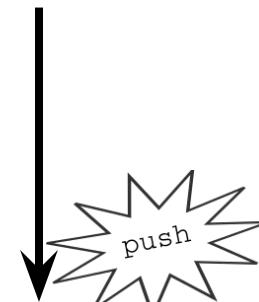
Both members are
working on the
(same) code



personal
computer
Peter



remote



personal
computer
Stijn





personal
computer
Peter



GitHub

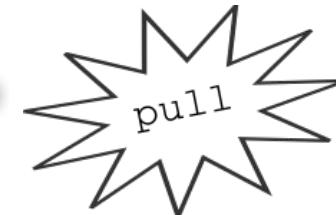
remote



RISK FOR
FILE
CONFLICTS!



personal
computer
Stijn



We want to minimize the risk of conflicts



personal
computer
Peter



remote
GitHub



personal
computer
Stijn



storm-selection



Always work on a
branch, based on
the latest version
of the main branch





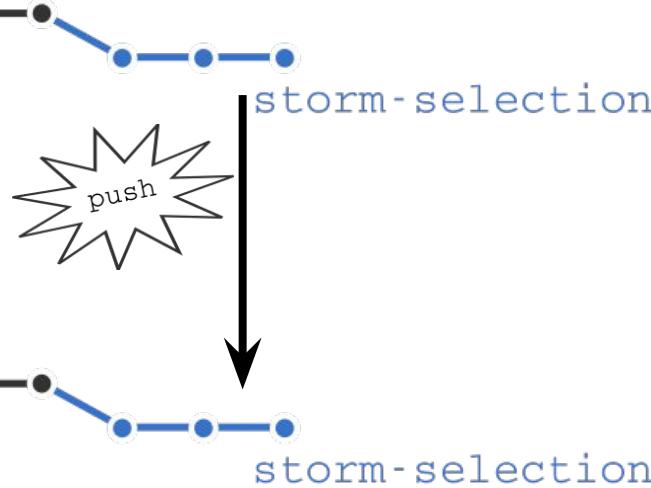
personal
computer
Peter



remote



personal
computer
Stijn



Push the **branch** to
the remote



personal
computer
Peter



remote



personal
computer
Stijn



storm-selection



storm-selection



Peter wants to
suggest his code for
the remote main





personal
computer
Peter



remote



personal
computer
Stijn



storm-selection



storm-selection

This is a **pull
request**

Your recently pushed branches:

⚡ new-file (less than a minute ago)

↳ Compare & pull request



⚡ branch: master ▾

Spoon-Knife /

This branch is 0 commits ahead and 0 commits behind master

↗ Pull Request

↗ Compare

Adding a brand new file

GitHub asks you automatically...

Comparing tdwg:master...stijnvanhoey:patch-1 Person 1

← → ⌂ GitHub, Inc. [US] https://github.com/tdwg/abcd/compare/master...stijnvanhoey:patch-1 ⋮

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base fork: **tdwg/abcd** ▾ base: **master** ▾ ... head fork: **stijnvanhoey/abcd** ▾ compare: **patch-1** ▾

✓ Able to merge. These branches can be automatically merged.

 **Added links to GBIF & BioCASE + correct BioCASE spelling**

Write Preview AA B i “ “ <> @

Leave a comment

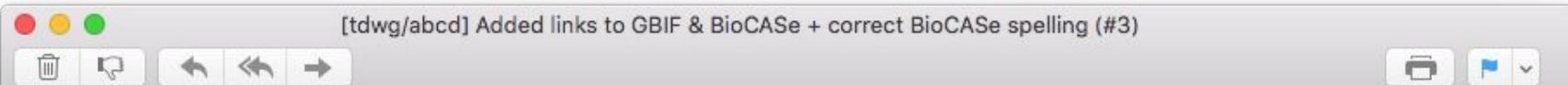
Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Allow edits from maintainers. [Learn more](#)

Create pull request

1 commit 1 file changed 0 commit comments 1 contributor

Handling pull requests



Stijn Van Hoey

Yesterday at 14:34

SV

To: tdwg/abcd

Reply-To: tdwg/abcd

[tdwg/abcd] Added links to GBIF & BioCASE + correct BioCASE spelling (#3)

You can view, comment on, or merge this pull request online at:

<https://github.com/tdwg/abcd/pull/3>

Commit Summary

- Added links to GBIF & BioCASE + correct BioCASE spelling

File Changes

- M [README.md](#) (4)

Patch Links:

- <https://github.com/tdwg/abcd/pull/3.patch>
- <https://github.com/tdwg/abcd/pull/3.diff>

You are receiving this because you are subscribed to this thread.
Reply to this email directly, [view it on GitHub](#), or [mute the thread](#).

Added links to GBIF & BioCASe x Person 1

GitHub, Inc. [US] | https://github.com/tdwg/abcd/pull/3

Added links to GBIF & BioCASe + correct BioCASe spelling #3

Edit

 Open stijnvanhoeey wants to merge 1 commit into `tdwg:master` from `stijnvanhoeey:patch-1`

Conversation 0

Commits 1

Files changed 1

+2 -2



stijnvanhoeey commented an hour ago



No description provided.

Added links to GBIF & BioCASe + correct BioCASe spelling

b55cfe9

Add more commits by pushing to the `patch-1` branch on `stijnvanhoeey/abcd`.



This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request



You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Projects

None yet

Labels

None yet

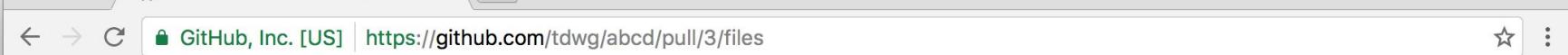
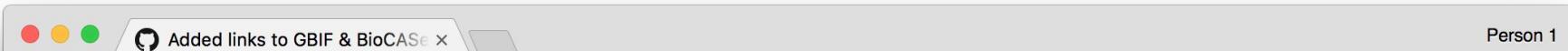
Milestone

No milestone

Assignees

No one—assign yourself

1 participant



Added links to GBIF & BioCASe + correct BioCASe spelling

#3

Open stijnvanhoeij wants to merge 1 commit into `tdwg:master` from `unknown repository`

Conversation 0

Commits 1

Files changed 1

Changes from all commits ▾ 1 file ▾

+2 -2

Unified

Split

Review changes ▾

4		README.md	View	Code	Diff	Copy
		@@ -13,9 +13,9 @@				
13	13					
14	14	The Access to Biological Collections Data (ABCD) Schema is an evolving comprehensive standard for the access to and exchange of data about specimens and observations (a.k.a. primary biodiversity data).				
15	15					
16		-The ABCD Schema attempts to be comprehensive and highly structured, supporting data from a wide variety of databases. It is compatible with several existing data standards. Parallel structures exist so that either (or both) atomised data and free-text can be accommodated. Version 1.2 is currently in use with the GBIF (Global Biodiversity Information Facility) and BioCASE (Biological Collection Access Service for Europe) networks.				
16		+The ABCD Schema attempts to be comprehensive and highly structured, supporting data from a wide variety of databases. It is compatible with several existing data standards. Parallel structures exist so that either (or both) atomised data and free-text can be accommodated. Version 1.2 is currently in use with the GBIF (Global Biodiversity Information Facility) and BioCASE (Biological Collection Access Service for Europe) networks.				

Added links to GBIF & BioCASe x Person 1

GitHub, Inc. [US] | https://github.com/tdwg/abcd/pull/3/files?diff=split

Added links to GBIF & BioCASe + correct BioCASe spelling #3

Edit

 Open stijnvanhoeij wants to merge 1 commit into `tdwg:master` from `unknown repository`

Conversation 0

Commits 1

Files changed 1

Changes from all commits ▾ 1 file ▾ +2 -2 ████ █ █ █ █

Unified

Split

Review changes ▾

Viewing diff in split mode



4 ████ README.md



@@ -13,9 +13,9 @@

13

14 The Access to Biological Collections Data (ABCD) Schema is an
evolving comprehensive standard for the access to and exchange
of data about specimens and observations (a.k.a. primary
biodiversity data).

15

16 -The ABCD Schema attempts to be comprehensive and highly
structured, supporting data from a wide variety of databases. It
is compatible with several existing data standards. Parallel
structures exist so that either (or both) atomised data and

13

14 The Access to Biological Collections Data (ABCD) Schema is an
evolving comprehensive standard for the access to and exchange
of data about specimens and observations (a.k.a. primary
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15

16 +The ABCD Schema attempts to be comprehensive and highly
structured, supporting data from a wide variety of databases. It
is compatible with several existing data standards. Parallel
structures exist so that either (or both) atomised data and

Added links to GBIF & BioCASe x Person 1

← → C GitHub, Inc. [US] | https://github.com/tdwg/abcd/pull/3/files?diff=split&short_path=04c6e90#diff-04c6e90faac2675aa89e2176d2... ☆ :

Added links to GBIF & BioCASe + correct BioCASe spelling

#3

 Open stijnvanhoeij wants to merge 1 commit into `tdwg:master` from `unknown repository`

Conversation 0

Commits 1

Files changed 1

Changes from all commits ▾ 1 file ▾ +2 -2 ████ █ █ █ █

Unified

Split

Review changes ▾

Display the rich diff



4 ████ █ README.md



Abstract

The Access to Biological Collections Data (ABCD) Schema is an evolving comprehensive standard for the access to and exchange of data about specimens and observations (a.k.a. primary biodiversity data).

The ABCD Schema attempts to be comprehensive and highly structured, supporting data from a wide variety of databases. It is compatible with several existing data standards. Parallel structures exist so that either (or both) atomised data and

Added links to GBIF & BioCASe x Person 1

GitHub, Inc. [US] | https://github.com/tdwg/abcd/pull/3/files?diff=split

Added links to GBIF & BioCASe + correct BioCASe spelling #3

Edit

 Open stijnvanhoeij wants to merge 1 commit into `tdwg:master` from `unknown repository`

Conversation 0

Commits 1

Files changed 1

Changes from all commits ▾ 1 file ▾ +2 -2 ████ █ █ █

Unified

Split

Review changes ▾

Viewing diff in split mode



4 ████ README.md



@@ -13,9 +13,9 @@

13

14 The Access to Biological Collections Data (ABCD) Schema is an
evolving comprehensive standard for the access to and exchange
of data about specimens and observations (a.k.a. primary
biodiversity data).

15

16 -The ABCD Schema attempts to be comprehensive and highly
structured, supporting data from a wide variety of databases. It
is compatible with several existing data standards. Parallel
structures exist so that either (or both) atomised data and

13

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Changes from all commits ▾

1 file ▾

+2 -2

Unified

Split

Review changes ▾

15

16 -The ABCD Schema attempts to be comprehensive and highly structured, supporting data from a wide variety of databases. It is compatible with several existing data standards. Parallel structures exist so that either (or both) atomised data and free-text can be accommodated. Version 1.2 is currently in use with the GBIF (Global Biodiversity Information Facility) and BioCASE (Biological Collection Access Service for Europe) networks.

15

16 +The ABCD Schema attempts to be comprehensive and highly structured, supporting data from a wide variety of databases. It is compatible with several existing data standards. Parallel structures exist so that either (or both) atomised data and free-text can be accommodated. Version 1.2 is currently in use with the [GBIF](http://www.gbif.org) (Global Biodiversity Information Facility) and [BioCASE](http://www.biocase.org) (Biological Collection Access Service for Europe) networks.

AA

B

i

“”

↔

@

Write

Preview

I just noticed the text indicates that the version used by GBIF/BioCASE is 1.2, while the most recent version is 2.06. Is this more recent version in use by GBIF/BioCASE? cc @mdoering |

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Added links to GBIF & BioCASe x Person 1

GitHub, Inc. [US] https://github.com/tdwg/abcd/pull/3

Added links to GBIF & BioCASe + correct BioCASe spelling

#3

 Open

stijnvanhoeuy wants to merge 1 commit into `tdwg:master` from `unknown repository`

 Conversation 1

 Commits 1

 Files changed 1

+2 -2 



stijnvanhoeuy commented an hour ago



No description provided.

 Added links to GBIF & BioCASe + correct BioCASe spelling

b55cfe9



 peterdesmet reviewed 36 seconds ago

[View changes](#)

README.md

...	...	@@ -13,9 +13,9 @@
13	13	
14	14	The Access to Biological Collections Data (ABCD) Schema is an evolving

Projects

None yet

Labels

None yet

Milestone

No milestone

Assignees

No one—assign yourself

2 participants



peterdesmet 36 seconds ago

Biodiversity Information Standards (TDWG)

member

I just noticed the text indicates that the version used by GBIF/BioCASE is 1.2, while the most recent version is 2.06. Is this more recent version in use by GBIF/BioCASE? cc @mdoering



Reply...

**This branch has no conflicts with the base branch**

Merging can be performed automatically.

Merge pull requestYou can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Write

Preview

AA B i

“ < > ”

≡ ≡ ≡

↶ ↷

@



Anyway, my comment should not stop this pull request. I will accept it. Thanks @stij

stijnvanhoey Stijn Van Hoey**Unsubscribe**You're receiving notifications
because you commented.**Lock conversation****Projects**

None yet

Labels

None yet

Milestone

No milestone

Assignees

No one—assign yourself

2 participants**Notifications**

Added links to GBIF & BioCASE x

Person 1

GitHub, Inc. [US] | <https://github.com/tdwg/abcd/pull/3>

Reply...

peterdesmet commented just now

Member + 🌟 ✎ ✕

Anyway, my comment should not stop this pull request. I will accept it. Thanks @stijnvanhoeij

Merge pull request #3 from stijnvanhoeij/patch-1

Added links to GBIF & BioCASE + correct BioCASE spelling

Confirm merge Cancel

Write Preview AA B i “ ‘ ↵ ↶ @ ★

Leave a comment

Projects None yet

Labels None yet

Milestone No milestone

Assignees No one—assign yourself

2 participants

Notifications

Unsubscribe You're receiving notifications because you commented.

Lock conversation

Added links to GBIF & BioCASe x

Person 1

GitHub, Inc. [US] | https://github.com/tdwg/abcd/pull/3

This repository Search

Pull requests Issues Gist

tdwg / abcd

Watch ▾ 8 Star 2 Fork 0

Code Issues 1 Pull requests 1 Projects 0 Wiki Pulse Graphs Settings

Added links to GBIF & BioCASe + correct BioCASe spelling

#3

Merged peterdesmet merged 1 commit into `tdwg:master` from `unknown repository` just now

Conversation 1 Commits 1 Files changed 1 +2 -2

stijnvanhoeij commented an hour ago
No description provided.

Projects None yet

Labels None yet

Milestone

Added links to GBIF & BioCASe + correct BioCASe spelling b55cfe9

When collaborating on a project, you
ALWAYS merge local additions
online*, this is done with a pull
request

* remember, we keep the main branch clean !

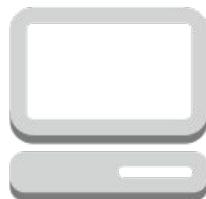
A pull request is the moment to
revise and discuss the code with
your colleagues



personal
computer
Peter



remote



personal
computer
Stijn



Stijn is now behind
with his branch



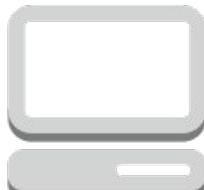
personal
computer
Peter



storm-selection



remote
GitHub



personal
computer
Stijn



He wants to
integrate these
changes





personal
computer
Peter



remote
GitHub



personal
computer
Stijn



storm-selection



This is done by
a **merge*** of the
remote work to
the local branch



* rebase would be a valid option as well,
but INBO policy is to merge



personal
computer
Peter



GitHub

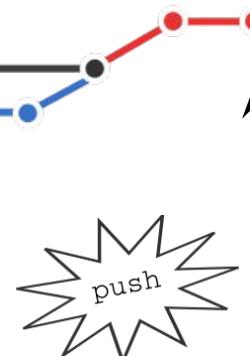
remote



personal
computer
Stijn



Stijn can **push**,
and **pull request**
without conflicts



Still, during a **merge*** of the remote changes into a **local branch**, conflicts can appear

*with `rebase` the same conflicts would appear



KEEP
CALM
AND
RESOLVE
CONFLICT

COMMANDMENTS

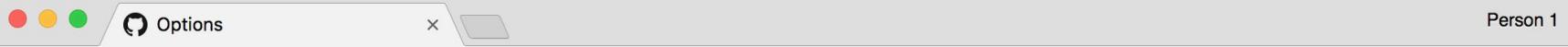
- Keep the main branch in sync with the remote main
- Never commit to main, always on a branch
- Only branch off main
- Branch often, branch for each feature, each bug-fix*
- Never merge into main locally

* branches are cheap

pull request - tell others about changes you've pushed
merge* (remote commits into local branch) - update your
local branch from online merges

***rebase** is doing exactly the same, but the git history will have other esthetics...

Inviting collaborators



Settings

Repository name

abcd

[Rename](#)

Features

Wikis

GitHub Wikis is a simple way to let others contribute content. Any GitHub user can create and edit pages to use for documentation, examples, support, or anything you wish.

Restrict editing to users in teams with push access only.

Public wikis will still be readable by everyone.

Issues

GitHub Issues adds lightweight issue tracking tightly integrated with your repository. Add issues to milestones, label



tdwg / abcd

Watch ▾ 8

Star 2

Fork 0

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Pulse

Graphs

Settings

Options

Collaborators & teams

Branches

Webhooks

Integrations & services

Deploy keys

Teams

+ Create new team

Admin

4 members

Admin ▾



ABCD

Access to Biological Collection Data c...

Admin ▾



6 members

Add a team: Select team ▾

Collaborators

This repository doesn't have any collaborators yet. Use the form below to add a collaborator.

Search by username, full name, or email address

ABCD · Biodiversity Information Standards (TDWG)

GitHub, Inc. [US] | https://github.com/orgs/tdwg/teams/abcd

This organization Search Pull requests Issues Gist

Biodiversity Information Standards (TDWG)

Repositories People 49 Teams 23 Projects 0 Settings

ABCD

Access to Biological Collection Data contributors — Edit

6 MEMBERS	2 REPOSITORIES
-----------	----------------

[Join](#) [Settings](#)

Use @tdwg/abcd to mention this team in comments.

Team members Repositories Add a person

1 pending invitation

mdoering Team maintainer
Markus Döring

DavidFichtmueller David Fichtmueller

gdadade

jholetschek Jörg Holetschek

Person 1

Person 1

ABCD · Biodiversity Information

GitHub, Inc. [US] | https://github.com/orgs/tdwg/teams/abcd

This organization Search

Pull requests Issues Gist

Biodiversity Information Standards (TDWG)

Repositories People 49 Teams 22 Projects 0 Settings

ABCD

Access to Biological Collection Data contributors — Edit

6 MEMBERS	2 REPOSITORIES
-----------	----------------

Join Settings

Use @tdwg/abcd to mention this team in comments.

Team members Repositories

1 pending invitation

 **mdoering** Team maintainer
Markus Döring

 **DavidFichtmueller**
David Fichtmueller

 **gdadade**

 **jholetschek**
Jörga Holetschek

stijnvanhoeij

 **stijnvanhoeij** Stijn Van Hoey
Invite to this organization and team +






ABCD · Biodiversity Information

Person 1

GitHub, Inc. [US] https://github.com/orgs/tdwg/teams/abcd/repositories

This organization Search

Pull requests Issues Gist

Biodiversity Information Standards (TDWG)

Repositories People 49 Teams 22 Projects 0 Settings

ABCD

Access to Biological Collection Data
contributors — Edit

6 MEMBERS	2 REPOSITORIES
-----------	----------------

Join Settings

Team members **Repositories**

Add repositories

tdwg/abcd Admin Remove

tdwg/abcddna Admin Remove

Use @tdwg/abcd to mention this team in comments.

The screenshot shows a GitHub organization page for 'ABCD · Biodiversity Information'. At the top, there's a navigation bar with links for 'Pull requests', 'Issues', and 'Gist'. Below the navigation is a search bar and a user profile icon for 'Person 1'. The main content area features a section for 'Biodiversity Information Standards (TDWG)'. This section includes a sidebar with 'Repositories' (6), 'People' (49), 'Teams' (22), 'Projects' (0), and 'Settings'. The 'Teams' tab is selected. On the right, there's a 'Team members' section with a 'Repositories' tab highlighted, and an 'Add repositories' button. Below this, two repository entries are listed: 'tdwg/abcd' and 'tdwg/abcddna', each with an 'Admin' dropdown and a 'Remove' button. At the bottom, a note says 'Use @tdwg/abcd to mention this team in comments.'

2. Open-source contribution



GitHub - tdwg/abcd: Access to Biological Collection Data

Person 1

← → ⌂ GitHub, Inc. [US] | https://github.com/tdwg/abcd

This repository Search Pull requests Issues Gist

tdwg / abcd

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse

Access to Biological Collection Data http://tdwg.github.io/abcd/ABCD_v206.html — Edit

11 commits 2 branches 1 release

Branch: master ▾ New pull request Create new file

DavidFichtmueller committed on GitHub Schema file added ...

Latest commit cf213d2 on 8 Sep

File	Commit Message	Time
ABCD_2.06.xsd	Schema file added	3 months ago
ABCD_v206.html	Migrate download file	2 years ago
README.md	Use version instead of release	a year ago

README.md

Access to Biological Collection Data (ABCD)

- Download: [Download](#)

Watch 8 Star 2 Fork 0

Notifications

✓ Not watching
Be notified when participating or @mentioned.

Watching
Be notified of all conversations.

Ignoring
Never be notified.

The key difference is you **can not**
directly push to the repo, since you
do not have these rights*

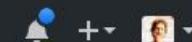
* raising issues won't be a problem

You have to make your own copy.
This is called a **fork**



This repository Search

Pull requests Issues Gist



matplotlib / matplotlib

Watch 398

Star 4,910

Fork 2,403

Code

Issues 930

Pull requests 234

Projects 6

Wiki

Pulse

Graphs

matplotlib: plotting with Python <http://matplotlib.org/>

21,200 commits

3 branches

60 releases

568 contributors

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾

dstansby committed on GitHub Merge pull request #8237 from dstansby/pep8-fix ... Latest commit 8a77cfb 6 hours ago

.github Adjust markdown and text in ISSUE_TEMPLATE.md 2 months ago

LICENSE LEG: include license for files derived from PIL 5 months ago

ci Merge pull request #8036 from dopplershift/tweak-coverage 16 days ago

doc Merge pull request #8224 from MaartenBaert/faster-legend-loc-best-squ... 14 hours ago

examples Fix pep8 violation 8 hours ago

extern Update qhull to 2015.2 2 months ago

lib Merge pull request #8224 from MaartenBaert/faster-legend-loc-best-squ... 14 hours ago

release/win32/data Merged from main/master 6 years ago

src Implement Path.intersects bbox in C++ to speed up legend positioning. a day ago

[This repository](#)[Search](#)[Pull requests](#) [Issues](#) [Gist](#)

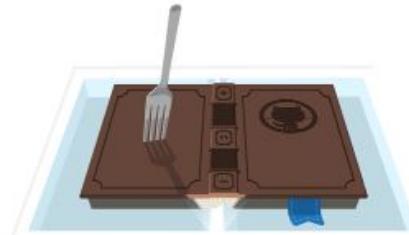
stijnvanhoey / **matplotlib**

forked from [matplotlib/matplotlib](#)

[Watch](#) [0](#)[Star](#) [0](#)[Fork](#) [2,403](#)[Code](#)[Pull requests 0](#)[Projects 0](#)[Wiki](#)[Pulse](#)[Graphs](#)[Settings](#)

Forking matplotlib/matplotlib

It should only take a few seconds.

[Refresh](#)

[This repository](#) | [Search](#)[Pull requests](#) [Issues](#) [Gist](#)[stijnvanhoey / matplotlib](#)forked from [matplotlib/matplotlib](#)

Watch

0



Star

0



Fork

2,403

[Code](#)[Pull requests 0](#)[Projects 0](#)[Wiki](#)[Pulse](#)[Graphs](#)[Settings](#)matplotlib: plotting with Python <http://matplotlib.org/>[Edit](#)[New](#) [Add topics](#)

21,200 commits

3 branches

60 releases

568 contributors

Branch: **master** ▾[New pull request](#)[Create new file](#)[Upload files](#)[Find file](#)[Clone or download ▾](#)

This branch is even with matplotlib:master.

[Pull request](#) [Compare](#) **dstansby** committed on GitHub Merge pull request #8237 from dstansby/pep8-fix ... Latest commit 8a77cfb 6 hours ago **.github** Adjust markdown and text in ISSUE_TEMPLATE.md 2 months ago **LICENSE** LEG: include license for files derived from PIL 5 months ago **ci** Merge pull request #8036 from dopplershift/tweak-coverage 16 days ago **doc** Merge pull request #8224 from MaartenBaert/faster-legend-loc-best-squ... 14 hours ago **examples** Fix pep8 violation 8 hours ago **extern** Update qhull to 2015.2 2 months ago **lib** Merge pull request #8224 from MaartenBaert/faster-legend-loc-best-squ... 14 hours ago **release/win32/data** Merged from main/master 6 years ago **src** Implement Path.intersects bbox in C++ to speed up legend positioning. a day ago

So, now you have a personal remote
and an external remote , typically
called `origin` and `upstream`

You have all the rights towards your
origin and pull request rights
towards upstream



remote
upstream

GitHub



remote
origin

GitHub



personal
computer



Based on the most recent upstream remote main, commits are added to a new branch



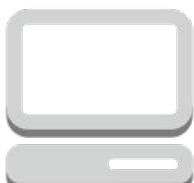
remote
upstream

GitHub

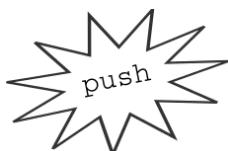


remote
origin

GitHub



personal
computer

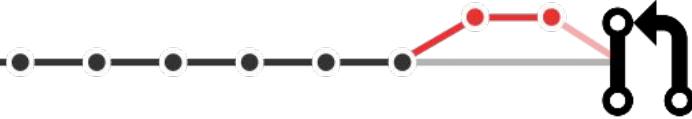


Pushing this
branch to the
origin remote...



remote
upstream

GitHub



remote
origin

GitHub



personal
computer



...triggers the
option for a **pull
request** towards
the **upstream**
remote

All (other) users can now update the local main branch from the `upstream main`. This is by **fetch**ing the upstream and merge the upstream main to the local main



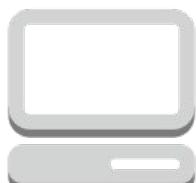
remote
upstream

GitHub



remote
origin

GitHub



personal
computer



fetch upstream,
merge upstream
main

fork - a copy of an existing repository

origin - the default name for the self-owned remote

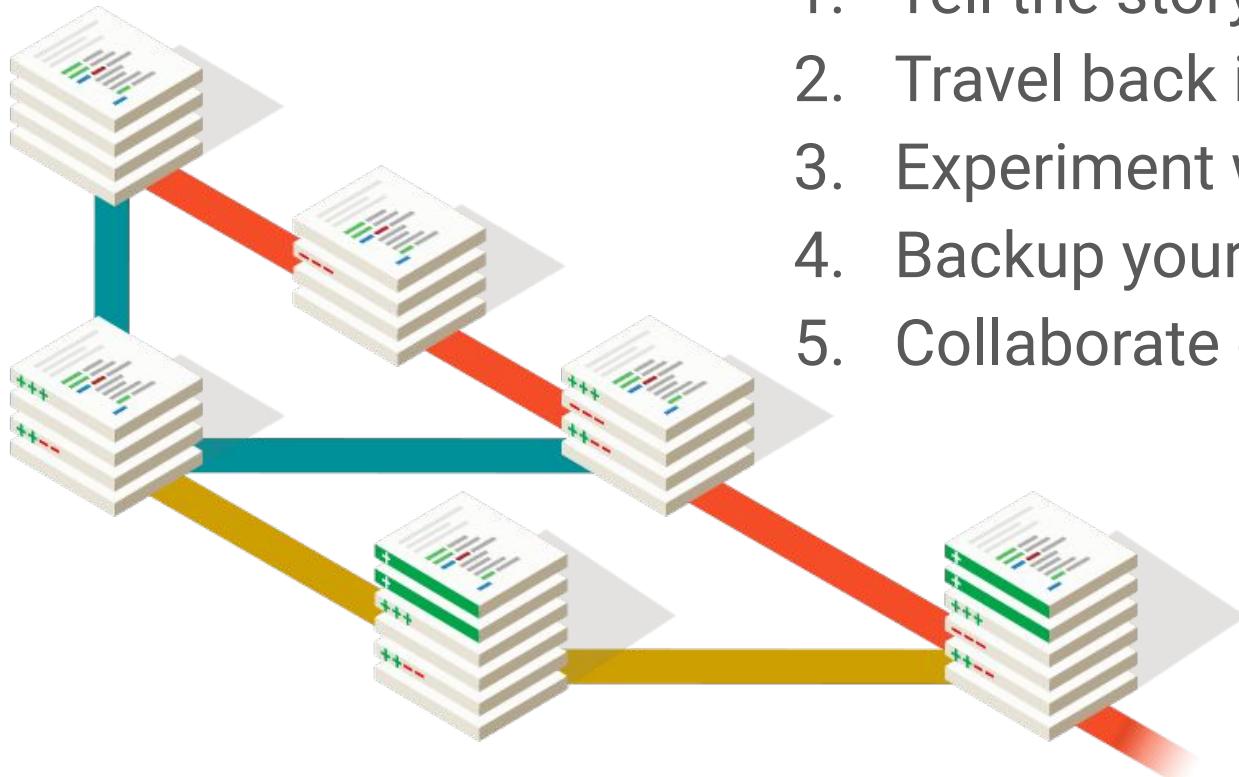
upstream - the default name for an external remote

fetch - download the latest updates from a remote

So far...

GitHub	remote <i>with benefits</i>
issues	report todos to yourself/team
pull request	tell others about changes you've pushed
merge*	update your local branch from online merges
fork	a copy of an existing repository
origin	the default name for the self-owned remote
upstream	the default name for an external remote
fetch	download the latest updates from a remote

Version control...



1. Tell the story of your project 
2. Travel back in time 
3. Experiment with changes 
4. Backup your work  
5. Collaborate on projects  





WHAT CODE COULD
BE BENEFICIAL FOR
OTHERS IN THE TEAM?

Try to define a few topics/projects to work together on the code (start small)

Acknowledgements:

- [Andy Hayden](#)
- [Joris Vandenbossche](#)
- [GitHub guides](#)

