GitHub

RESEARCH INSTITUTE
NATURE AND FOREST

Peter Desmet, Stijn Van Hoey

Who are we?

Stijn Van Hoey

🐦 Twitter

🔘 GitHub

Peter Desmet
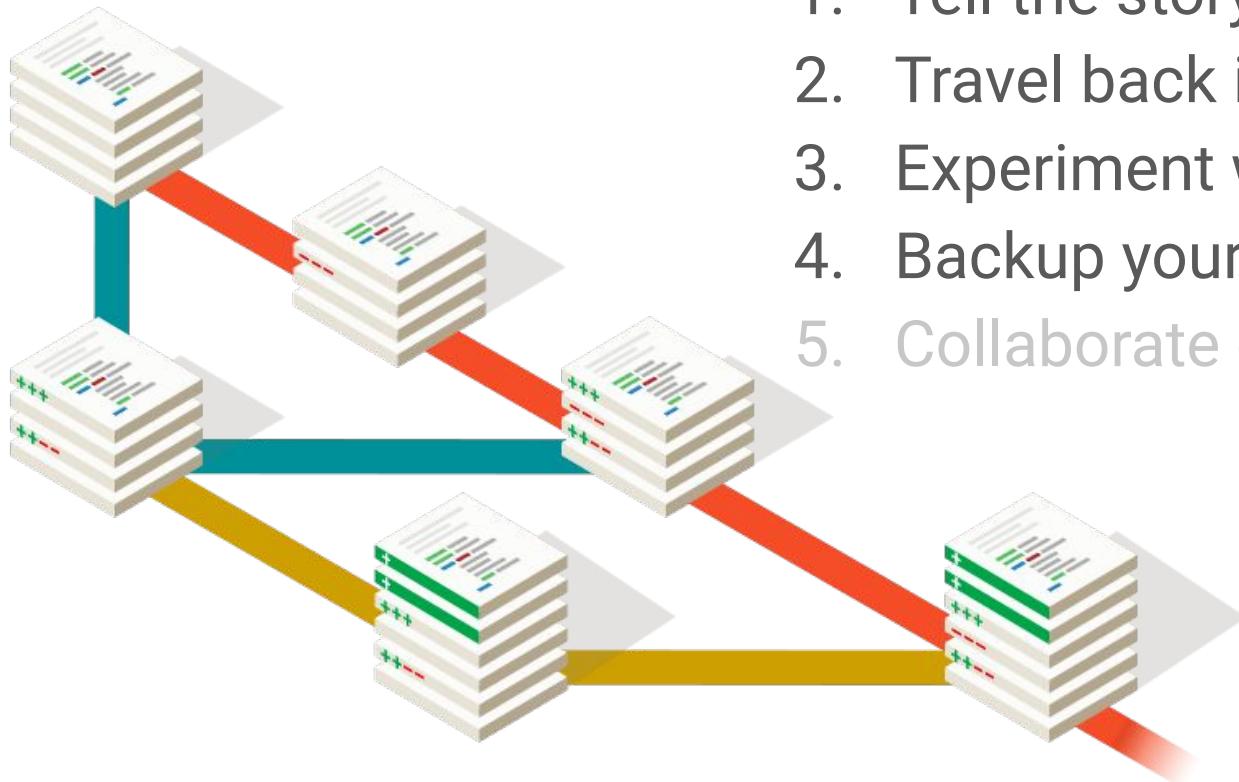
🐦 Twitter

🔘 GitHub

What code* could be beneficial for others in the team?
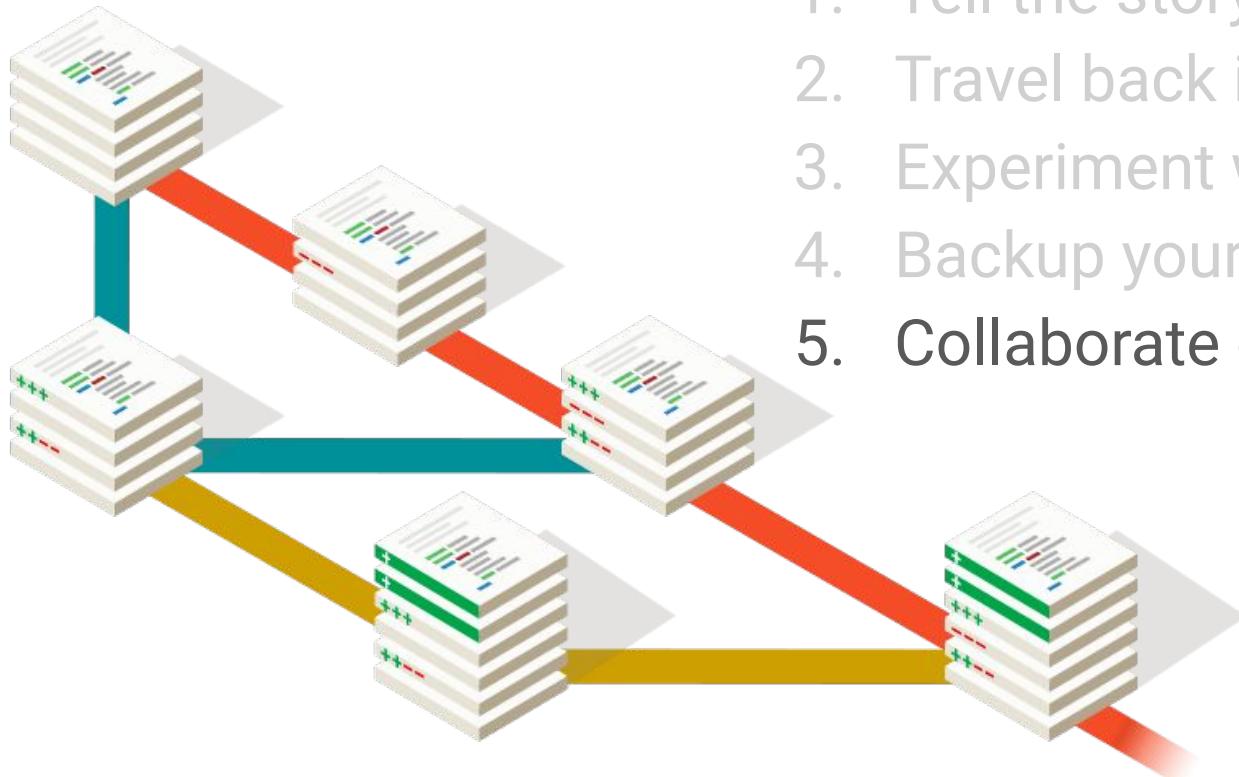
* could be... plot function, bash-trick, tex template .sty, guideline, model, statistical analysis, data cleaning, time series filtering,...

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!

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

Person 1

← → C 🔒 GitHub, Inc. [US] | https://github.com/tdwg/abcd ☆ ⋮

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📖 **tdwg** / **abcd**

👁 Watch 8   ★ Star 2   ⑂ Fork 0

<> Code   ⊙ Issues 0   ⫴ Pull requests 0   ▱ Projects 0   ⚡ Pulse   ⅠⅠⅠ 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

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

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⬙ README.md

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

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This repository   Search

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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

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README.md

Access to Biological Collection Data (ABCD)

- **Download:** Download
- **Status:** TDWG current (2005) standard

GitHub - tdwg/abcd: Access to

Person 1

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

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Personal Open source Business Explore Pricing Blog Support

tdwg / abcd

Watch 8 | Star 2 | Fork 0

<> Code   Issues 0   Pull requests 0   Projects 0   Pulse   Graphs

Home | githubs | abcd

Access to Biological Collection Data http://tdwg.github.io/a

Recent

Home

Desktop

Documents

Downloads

ABCD_2.06.xsd   ABCD_v206.html   README.md

8 commits   2 branches

Branch: master   New pull request

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

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README.md   Use version instead of release   a year ago

README.md

Access to Biological Collection Data (ABCD)

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- **Status:** TDWG current (2005) standard

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 ▾

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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

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

This repository | Search   Pull requests   Issues   Gist

tdwg / abcd

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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📄 README.md	Use version instead of release	a year ago

📖 README.md

Person 1

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

This repository Search   **Pull requests** **Issues** **Gist**

📖 **tdwg** / **abcd**

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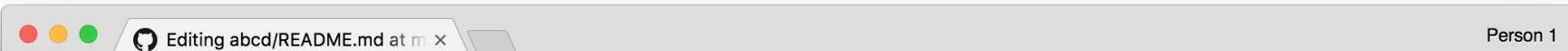
GitHub, Inc. [US] | https://github.com/tdwg/abcd/edit/master/README.md

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]
```

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

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

This repository | Search   Pull requests   Issues   Gist

tdwg / **abcd**

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

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

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

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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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

Edit   New issue

⊙ Open   **stijnvanhoey** opened this issue 43 minutes ago · 0 comments

stijnvanhoey 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?

Write   Preview

AA▾ B i   " <> ⚲   ☰ ☰ ☑   ↩▾ @ 🔖

Leave a comment

Projects

None yet

Labels   ⚙

None yet

Milestone   ⚙

No milestone

Assignees   ⚙

No one—assign yourself

Links to rs.tdwg.org/abcd retur ×

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

Edit   New issue

⊙ Open   stijnvanhoey opened this issue 43 minutes ago · 0 comments

stijnvanhoey 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?

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

Projects
None yet

Labels   ⚙
None yet

Milestone   ⚙
No milestone

Assignees   ⚙
No one—assign yourself

1 participant

🔒 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

Edit | New issue

⊙ Open | **stijnvanhoey** opened this issue 44 minutes ago · 1 comment

stijnvanhoey 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**!

Projects

None yet

Labels ⚙

Apply labels to this issue ✕

Filter labels

🟥 bug

⬜ duplicate

🟦 enhancement

🟩 help wanted

Write | Preview

AA▾ B *i* | " <> 🔗 | ☰ ☰ ☑

Leave a comment

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

stijnvanhoey 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

| Write | Preview | | AA▾ B i | ❝ <> 🔗 | ☰ 1☰ ☑ |

Leave a comment

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Ⓜ Styling with Markdown is supported

Close issue   **Comment**

Projects

None yet

Labels   ⚙

bug

Milestone   ⚙

No milestone

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

Person 1

🔒 GitHub, Inc. [US] | https://github.com/tdwg/abcd/labels ⭐ ⋮

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

Labels **Milestones**   **New label**

| quick-to-fix | 🟨 #fbca04 | **Cancel** **Create label** |
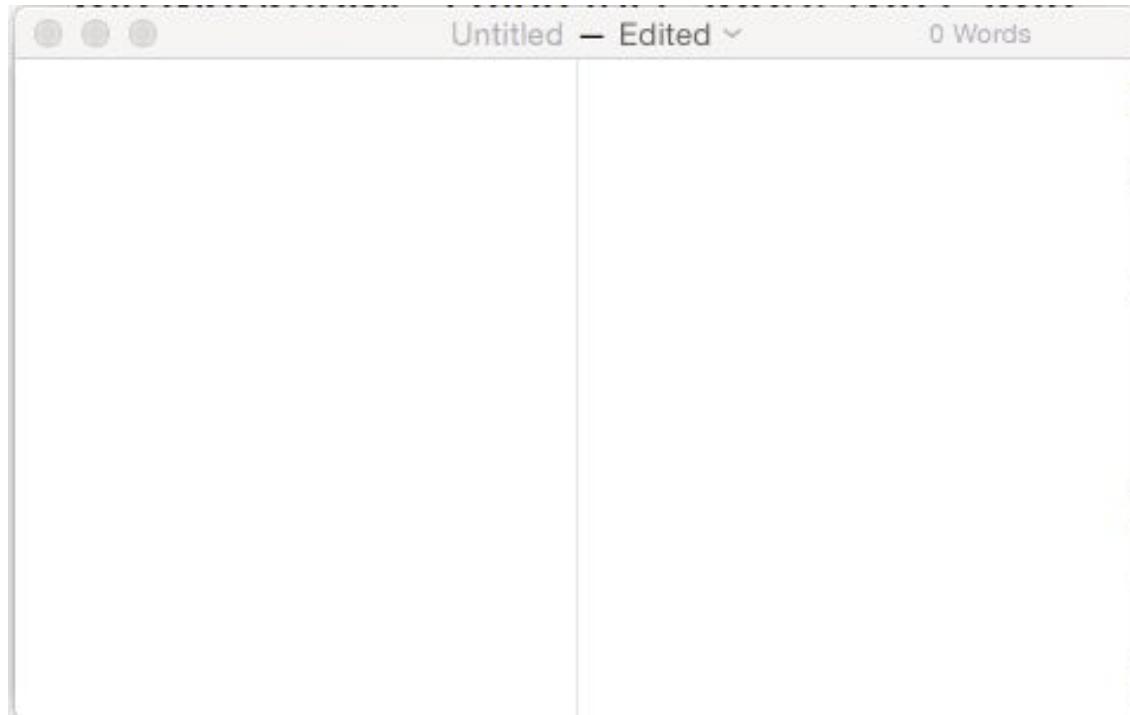
7 labels   Sort ▾

🏷 **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

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

remote

GitHub

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

Both members are working on the (same) code

personal computer Peter
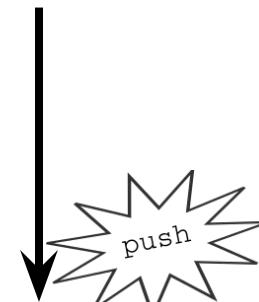
remote

GitHub

push

personal computer Stijn

We want to minimize the risk of conflicts

personal computer Peter
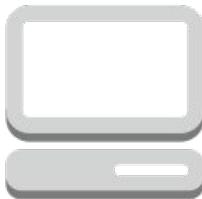
storm-selection

remote

GitHub

personal computer Stijn

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

personal computer Peter

storm-selection

remote

GitHub
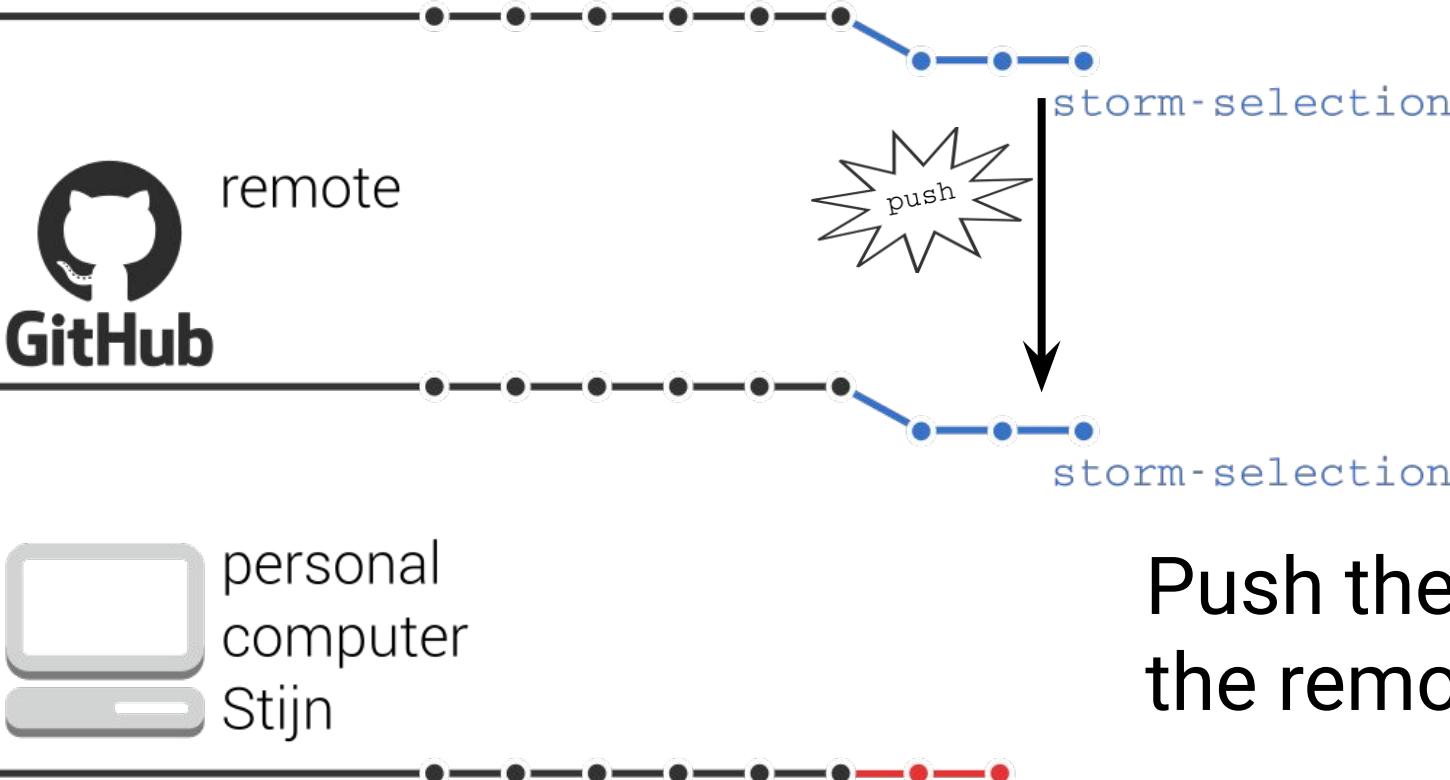
push

storm-selection

personal computer Stijn

Push the branch to the remote

personal
computer
Peter

storm-selection

remote

GitHub

storm-selection

personal
computer
Stijn

Peter wants to
suggest his code for
remote master
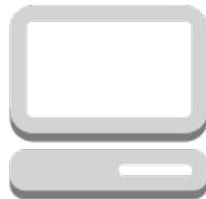
personal computer Peter

storm-selection

remote

GitHub

storm-selection

personal computer Stijn

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...

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.** hese branches can be automatically merged.

Added links to GBIF & BioCASe + correct BioCASe spelling

Write | Preview

AA ▾   B   *i*   66   <>   ⊂⊃   ☰ ☰ ☷   ↩ ▾   @   ★

Leave a comment
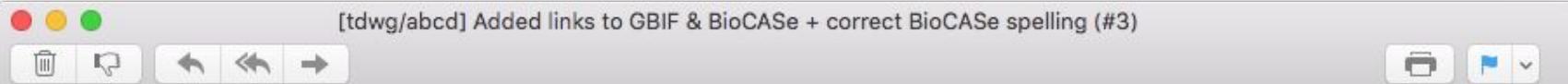
Attach files by dragging & dropping, **selecting them**, or pasting from the clipboard.

☑ **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

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

—

Person 1

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

Added links to GBIF & BioCASe + correct BioCASe spelling

Edit

#3

🔀 **Open** | **stijnvanhoey** wants to merge 1 commit into `tdwg:master` from `stijnvanhoey:patch-1`

💬 **Conversation** 0 | ⚙ Commits 1 | 📄 Files changed 1

+2 −2 ■■■■□

---

stijnvanhoey 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 **stijnvanhoey/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

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

Added links to GBIF & BioCASe + correct BioCASe spelling

Edit

#3

🔀 **Open**   **stijnvanhoey** 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 | 🖥   ✎

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

13   13   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

← → C 🔒 GitHub, Inc. [US] | https://github.com/tdwg/abcd/pull/3/files?diff=split ☆ ⋮

Added links to GBIF & BioCASe + correct BioCASe spelling

Edit

#3

⑂ Open **stijnvanhoey** 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 | | ⟨⟩ | ▤ | View | 🖥 | ✎ |

⊹   @@ -13,9 +13,9 @@

13		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).	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	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 + correct BioCASe spelling

Edit

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⬛ 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   `<>` 📄 | View 🖥 ✏

⇕

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

← → C 🔒 GitHub, Inc. [US] | https://github.com/tdwg/abcd/pull/3/files?diff=split ☆ ⋮

Added links to GBIF & BioCASe + correct BioCASe spelling

Edit

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🔀 **Open** · **stijnvanhoey** 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 | | | ‹› 📄 | View | 🖥 ✏️ |

⊕   `@@ -13,9 +13,9 @@`

13		13	
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Changes from **all commits** ▾   **1 file** ▾   **+2 −2** ▪▪▪▪▪

Unified | Split   **Review changes** ▾

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](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.

Styling with Markdown is supported

← → ↻   🔒 GitHub, Inc. [US] | https://github.com/tdwg/abcd/pull/3   ☆   ⋮

Added links to GBIF & BioCASe + correct BioCASe spelling

Edit

#3

🔀 **Open**   **stijnvanhoey** wants to merge 1 commit into `tdwg:master` from `unknown repository`

💬 **Conversation** 1   ⊷ **Commits** 1   ⊞ **Files changed** 1   **+2 −2** ■■■■■

stijnvanhoey 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 request ▾   You 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

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

@mdoering

Reply...

peterdesmet commented just now

Member | +😊 | ✏️ | ✕

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

Merge pull request #3 from stijnvanhoey/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 ×

🔒 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

Edit

#3

⚲ **Merged** | peterdesmet merged 1 commit into tdwg:master from unknown repository just now

💬 Conversation 1 | ⚬ Commits 1 | 📄 Files changed 1 | +2 −2 ■■■■■

stijnvanhoey commented an hour ago | +😊 ✏

No description provided.

⚬——⚬ | 📄 Added links to GBIF & BioCASe + correct BioCASe spelling | b55cfe9

Projects

None yet

Labels | ⚙

None yet

Milestone | ⚙

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

* remember, we keep the `master` clean !
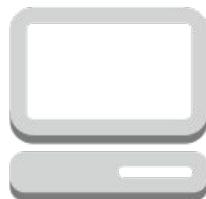
A pull request is the moment to revise and discuss the code with your colleagues

personal computer Peter

storm-selection
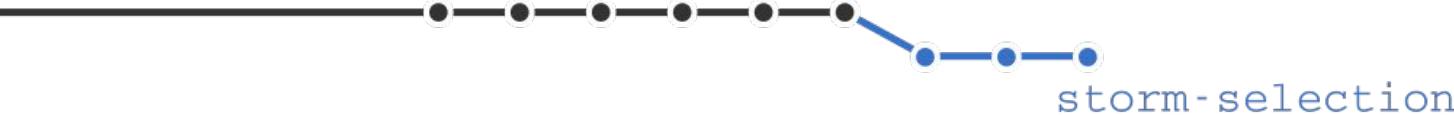
remote

GitHub

personal computer Stijn

Stijn is now behind with his branch

personal computer Peter

storm-selection

remote GitHub

He wants to integrate these changes

personal computer Stijn

personal computer Peter

storm-selection

remote

GitHub

personal computer Stijn

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
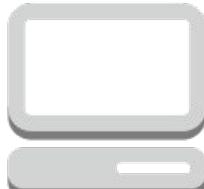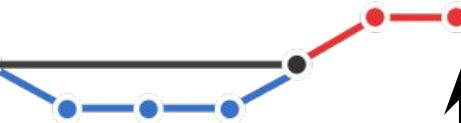
Stijn can push,
and pull request
without conflicts

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

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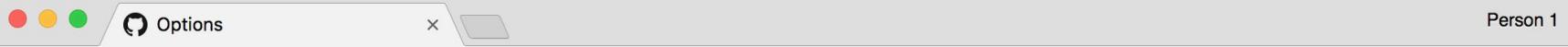
- Keep master in sync with the remote master
- Never commit to master, always on a branch
- Only branch off master
- Branch often, branch for each feature, each bug-fix*
- Never merge into master locally

* 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

Inviting collaborators

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

📕 **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

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

Person 1

🔒 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	**2**
MEMBERS	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

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	2
MEMBERS	REPOSITORIES

Join   ⚙ Settings

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

Team members   Repositories

👤 stijnvanhoey

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

1 pending invitation

mdoering Team maintainer
Markus Döring   ⚙ ▾

DavidFichtmueller
David Fichtmueller   ⚙ ▾

gdadade   ⚙ ▾

jholetschek
Jörg Holetschek   ⚙ ▾

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	2
MEMBERS	REPOSITORIES

Join   ⚙ Settings

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

Team members   **Repositories**   📖 Add repositories

📖 tdwg/**abcd**   Admin ▼   Remove

📖 tdwg/**abcddna**   Admin ▼   Remove

2. Open-source contribution

Person 1

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

This repository | Search

Pull requests   Issues   Gist

tdwg / abcd

👁 Watch ▾ | 8   ★ Star | 2   ⑂ Fork | 0

Notifications ✕

<> Code   ⓘ Issues 0   ⑂ Pull requests 0   ⊞ Projects 0   📖 Wiki   ⌁ Pulse

✓ **Not watching**
Be notified when participating or @mentioned.

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

⊙ **11 commits**   ⑂ **2 branches**   🏷 **1 release**

Watching
Be notified of all conversations.

Branch: master ▾ | New pull request

Create new file

Ignoring
Never be notified.

👤 **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

The main difference is you can not directly push to the repo, since you do not have these rights*
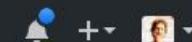
* raising issues won't be a problem

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

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

stijnvanhoey / **matplotlib**

forked from matplotlib/matplotlib

⊙ Watch ▾   0   ★ Star   0   ⑃ Fork   2,403

‹› Code   ⑂ Pull requests 0   ▥ Projects 0   ▦ Wiki   ⋀ Pulse   ⅲ 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

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

remote
upstream

GitHub

remote
origin

GitHub

personal
computer
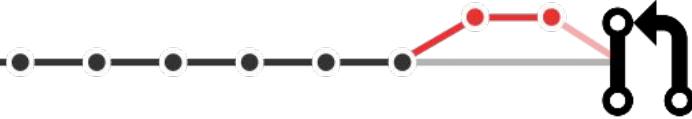
push

Pushing this branch to the origin remote...

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

All (other) users can now update the local master from the `upstream master`.   This is by **fetch**ing the upstream and merge the upstream master to the local master
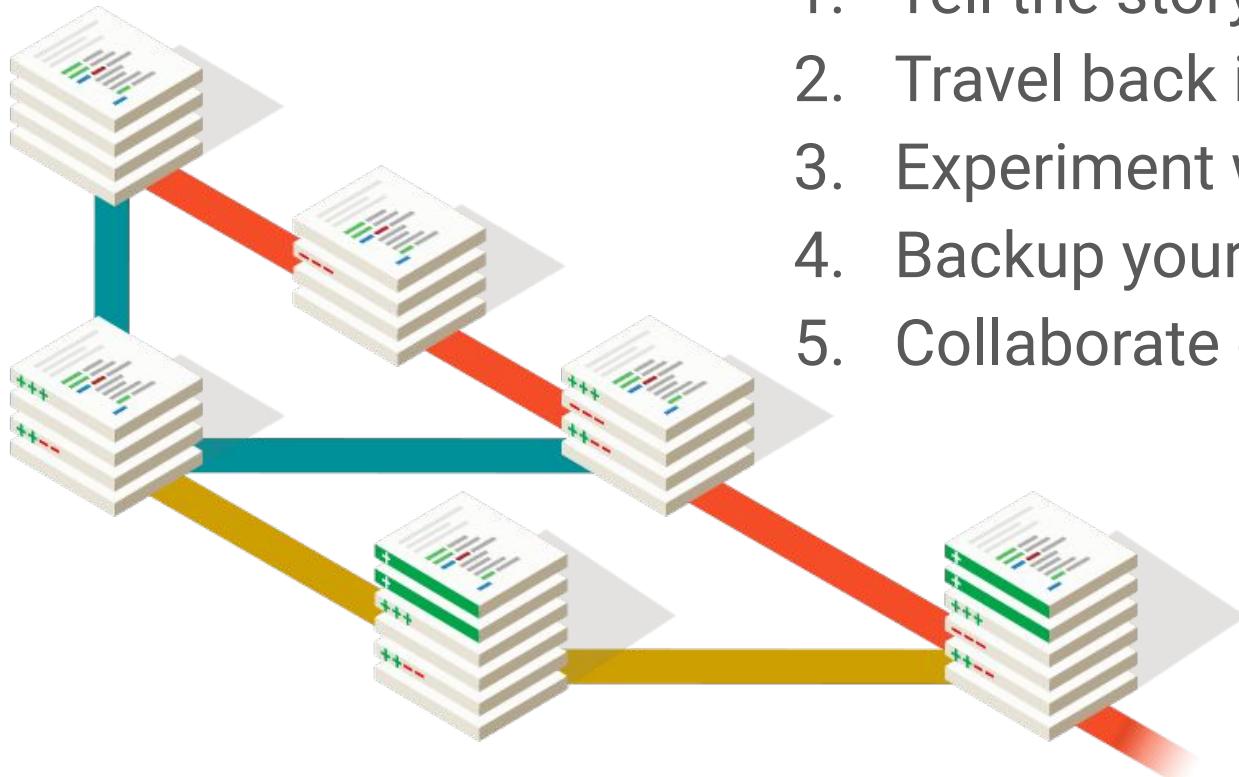
fork - a copy of an existing repository
origin - the default name for the self-owned remote
upstream - the default name for an external remote
fetch - download the latest updates from a remote

So far...

GitHub	remote *with benefits*
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

* similar to rebase

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

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

Acknowledgements:
- Andy Hayden
- Joris Vandenbossche
- GitHub guides