



Wikimedia

Goal of TechPeople is to build bridges between Silos

^Amanda Costello's talk

^As part of our mission, we'd like to talk about specific ways to remove these silos

Destroying silos with GitHub



Goal of TechPeople is to build bridges between Silos

^Amanda Costello's talk

^As part of our mission, we'd like to talk about specific ways to remove these silos

^And today I'm going to show you how you can use GitHub to destroy silos

Wait, Github?

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)



I thought that was for Coders
^Jenn has been introducing it to Communications, Designers, BAs, Data Analysts
^A wide variety of users! Some don't even have stickers on their laptops



Wikimedia

Or, maybe you think it's just a place to store stuff
^If it was only that I'd be telling you to use
Google Drive
^But it's a tool for collaboration

GitHub is Collaboration

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)



Collaboration Destroys Silos
GitHub is Collaboration
Therefore GitHub Destroys Silos

— Aristotle

OK

Let's destroy silos!

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Something to move us to types of silos and relevant GitHub tools

Silo One Yourself

WOCinTech Chat



The idea of you as a silo may be surprising.

^ But if you've ever had to look back at work you wrote a year ago, you know how unfamiliar your own work can be.

Silo One: Yourself

- I have no idea what I changed a year ago
- I do not know why I made that change

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

When I go back to something I worked on that's now broken, these are the two questions I have. What Change and Why.

Destroying Silo One

- Use **Comparsions** to see what changed
- Use **Commits** to see why

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Comparisons to see what changed

I have no idea what I changed a year ago

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

25 themes/ocm_umn/sass/component/_navbar.scss

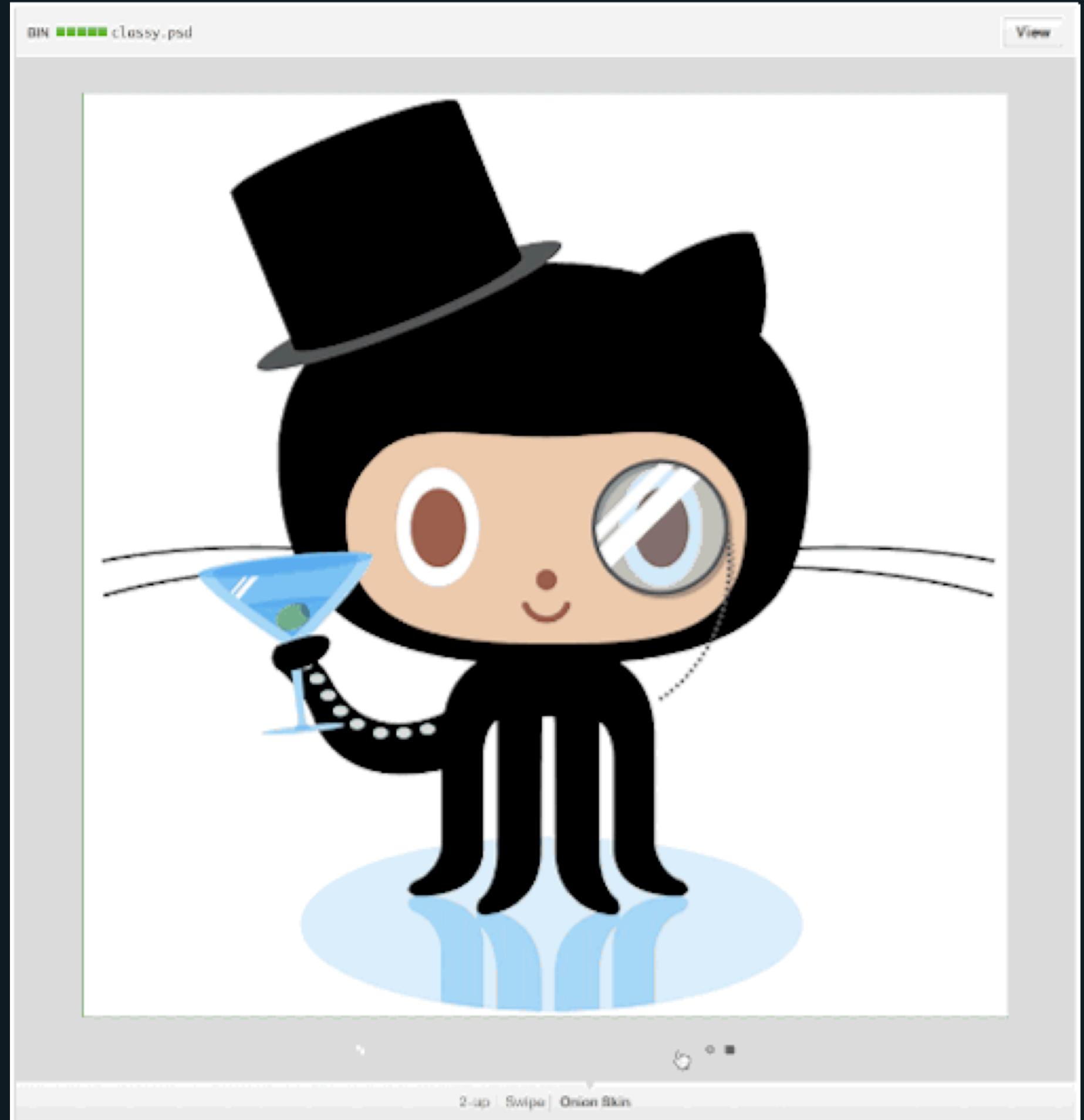
View ▾

```
@@ -75,18 +75,21 @@ body {  
 75   padding-right: 0;  
 76   .big {  
 77     font-size: 28px;  
 78 -   @media screen and (max-width: 460px) {  
 79 -     font-size: 22px;  
 80   }  
 81 }  
 82 }  
  
 75   padding-right: 0;  
 76   .big {  
 77     font-size: 28px;  
 78 +   @media screen and (max-width: 520px) {  
 79 +     font-size: 24px;  
 80 +   }  
 81 +   @media screen and (max-width: 480px) {  
 82 +     font-size: 20px;  
 83 +   }  
 84 +   @media screen and (max-width: 400px) {  
 85 +     font-size: 16px;  
 86   }  
 87 }  
 88 }
```

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

This is an example of a comparison to see what changed.

- ^ On the left is the old version of the file, the new version is on the right
- ^ Red lines are deleted, green lines added
- ^ So we can easily see here that 2 lines were replaced with 8 new lines
- ^ You can do this for a single file, or for a bunch all at once.



You can also Compare versions of images.

commits to see why

I do not know why I made that change

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)



Commit changes

Update

Add an optional extended description...

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

When you change a file you include a message, called the Commit Message.

^ Think hard about what you put in your Commit Message. This is a message to future you where you can explain why you made this change

fixing silly model

⌚ master



Ian Whitney committed on Jul 27, 2014

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

You can leave your self a cryptic message devoid of any context, like I did here.

^ Why was it silly? Will bad things happen if I change it back?

Refactor, de-compose, etc

This is a big commit and I don't see a way to break it down into smaller pieces. Sorry to all future maintainers.

A big driver of these changes was to localize all knowledge of Sequel into one class, which is SequelClient. It just provides a thin wrapper around Sequel and adds a couple of helper methods. This barrier between the app and Sequel may need to be made more solid in future refactoring.

On top of SequelClient I've added a couple of Repository-like things: ErrorRepository and AuditRepository. They are the only classes that work with SequelClient and they provide methods to be used by classes looking for errors or audits.

Next up in new code is ErrorFilter, which is meant to be a place to put code that returns audit_ids that have certain error conditions.

Currently we only have one method here, all. But we're going to have more stuff here like 'dars' or 'peoplesoft' and other useful scopes.

Or you can explain what you were thinking
^ And what future you should keep in mind
before changing things again

Silo Two Your Team



WOCinTech Chat

You all work on the same team, but you're still individuals.
Silos can form.

- ^ Maybe you do most of the work on a project, and now a co-worker needs to help out
- ^ Or you end up fixing something while your co-worker is out on vacation

Silo Two: Your Team

- My team does not know what this project does
- I do not know about changes they make

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

They can use the tools we already saw --
comparing and looking at commits

^ But GitHub offers tools that are great for teams!

Destroying Silo Two

- Use **Readme** to introduce your projects
- Use **Pull Requests** to manage changes

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Readme to introduce your projects

My team does not know what this project does

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

At The Sound Of The Tone, The Term Will Be...

AKA terms.umn.edu

A web service that tells you what term is active today, or any other day that you might care about.

Terminology

- *Active*: term based on the range of actual start of term (`term_begin_dt`) and actual end of term (`term_end_dt`)
- *Latest*: term based on the most recently begun term that ends the day before the actual start of term (`term_begin_dt`) for the following term

Usage

Get Terms Active for Today:

- [All active terms for all institutions and careers](#)
- [All active terms for UMNTC and all careers](#)
- [All active terms for UMNTC and UGRD](#)

Readmes

^ GitHub puts a text file, named `Readme`, front and center.

^ A place to introduce what a project does and how to use it

Pull Requests to manage changes

I do not know about changes they make

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

[asrweb / academic_term](#) Private

Unwatch 5

Star 0

Fork 0

Code

Issues 0

Pull requests 1

Projects 0

Wiki

Pulse

Graphs

Settings

Initial working code and tests #1

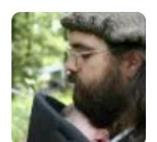
Open isen0011 wants to merge 4 commits into master from initial_working_code

Conversation 5

Commits 4

Files changed 7

+134 -0



isen0011 commented 6 days ago

The code here is almost entirely copied from the GPA Calc service, with one change that was added due to identifying a bug in testing - not prefixing '0's for the estimated term when dealing with 19xx years.

The cucumber tests and code indicate where the next improvement could be easily made - changing the code to work with different institutions and careers.

Initial working code and tests ...

fb67900



whit0694 commented 6 days ago

Reviewers

dlagerro

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Situations we've probably all been in.

- ^ Unbeknownst to you, a team-mate makes a change and heads off on vacation. When that first frantic support call comes in, you have no idea what's going on.
- ^ Or, you make a change only to find out that you ended up breaking a team-mate's project.
- ^ If only you had a way of publicizing these changes!
- ^ With Pull Requests, GitHub gives you a tool to publicize and discuss changes.
- ^ In this PR my teammate Shawn was creating a new library and my co-worker Davin offered some suggestions to improve it. Now both Shawn and Davin know what this code does. And neither will be caught off guard by the change.

Silo Three Your Department



WOCinTech Chat

Your team is communicating well, now it's time to break down the silo that separates you from the rest of your department

- ^ You want a web page to tell everyone about one of your projects, or your team
- ^ You want to collaborate with a BA in a different part of your department
- ^ You want to show the director how much progress you're making

Silo Three: Your Department

- My department doesn't know what my team does
- My team needs to work with people across my department
- My manager wants to see progress in Jira/Trello/Etc

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Destroying Silo Three

- Use **Pages** to show off your team
- Use **Teams** to collaborate with others
- Use **Integrations** to work with other tools

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Pages to show off your team

My department doesn't know what my team does

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Academic Support Resources Custom Solutions

Making a Positive Difference in Students' Lives

Home Blog Jobs Projects

Home

ASR Custom Solutions

Making a Positive Difference in Students' Lives

About Us

The ASR software development team is a small, dynamic group of developers that value:

- well-tested software and test-driven development
- pair programming and team ownership of code
- close, empathetic collaboration with customers
- professional development and continuous learning

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GitHub Pages lets you create simple, static websites of any size.

- ^ And you manage them within GitHub, so you have access to all of GitHub's tools
- ^ Commits, comparing changes, pull requests, the works
- ^ When you make a change, your site is updated within minutes
- ^ Use github.umn.edu to create a page that's only visible to people on campus
- ^ Or use github.com to create a page that's visible worldwide.

Teams to collaborate with others

My team needs to work with people across my department

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Managing http://terms.umn.edu — Edit

 Members 5

 Repositories 1

 Settings

 Find a member...

Add a member

Select all

Role ▾

 Chris Dinger ding0057 Maintainer

 Michael Berkowski mjb Maintainer

 Jack Brown brown285 Maintainer

 Ian Whitney whit0694 Maintainer

 ttraffic ttraffic Maintainer

More

A lot of projects need a wide range of experts.

^ You might manage the code, but need to collaborate with a BA from a different part of your department.

^ A GitHub Team lets you share access to your work

Integrations to work with other tools

My manager wants to see progress in Jira/Trello/Etc

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

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

Options Collaborators Branches Hooks & services Deploy keys Custom tabs

Webhooks

Add webhook

Webhooks allow external services to be notified when certain events happen within your repository. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

Services

Add service ▾

Available Services
Tre
Trello
Trajectory
TargetProcess
WebTranslateIt
Hostedgraphite
PivotalTracker
SoftLayerMessaging
DiveCloud - Application Performance Testing

Pre-receive hooks

Pre-receive hooks are scripts that run on the GitHub Enterprise server before a push. Each script runs in an [isolated environment](#) to determine whether the push is accepted or rejected.

No pre-receive hook

Pre-receive hooks can only be added by the repository owner.

You can connect GitHub to an amazing number of other tools

- ^ Trello, Jira, Slack, Pivotal, so many more
- ^ Exact setup will vary by what you're trying to connect to

Silo Four

Your University



UNIVERSITY OF MINNESOTA

Driven to Discover®

Crookston Duluth Morris Rochester Twin Cities

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Your department is humming.

^Now let's break down the walls between
your department and the rest of the
University

^All the same tools still apply.

^Readmes and Pages to publicize your work

^Teams to collaborate with others

^But there are more!

Silo Four: Your University

- What does that department do?
- What's up with that project?
- What does that person do?
- Does my friend know about this?

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Destroying Silo Four

- Use **Organizations** to see what a department does
- Use **Watch** to see when a project changes
- Use **Follow** to see what a person does
- Use @ to notify others

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Organizations to see what a department does

What does that department do?

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University Libraries

[Repositories](#)[People 45](#)[Teams 16](#)[Projects 0](#)

Pinned repositories

[example-repository](#)

Example to demonstrate Libraries' repository standards

[Type: All ▾](#)[Language: All ▾](#)[New](#)

auto-suggestions

Suggestions for lib.umn.edu search box

 JavaScript Updated a day ago

Top languages

 PHP  JavaScript  CSS  Ruby
 HTML

[brand-x-hsl](#)

[Private](#)

People

[45 >](#)

There's a department or team you collaborate with, or that you want to collaborate with
^ Check out their "Organization" page to see their projects and recent changes

**Watch
to see when
a project changes**

What's up with that project?

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

asrweb / terms

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse

A JSON web service to discover what term it is <http://terms.umn.edu>

rails api Manage topics

161 commits 2 branches 1 release

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

whit0694 Automatic commit for public site Latest commit 76b72a0 18 days ago

app	Remove unused code	18 days ago
bin	Add first Cucumber feature test	3 months ago
config	Remove unused code	18 days ago
db	Remove dependency on today's date	a month ago
features	Add Previous/Next links	18 days ago
lib	Remove unused code	18 days ago
log	Initial	3 months ago
public	Remove unused code	18 days ago
script	Use bash to update docs	18 days ago
site	Automatic commit for public site	18 days ago

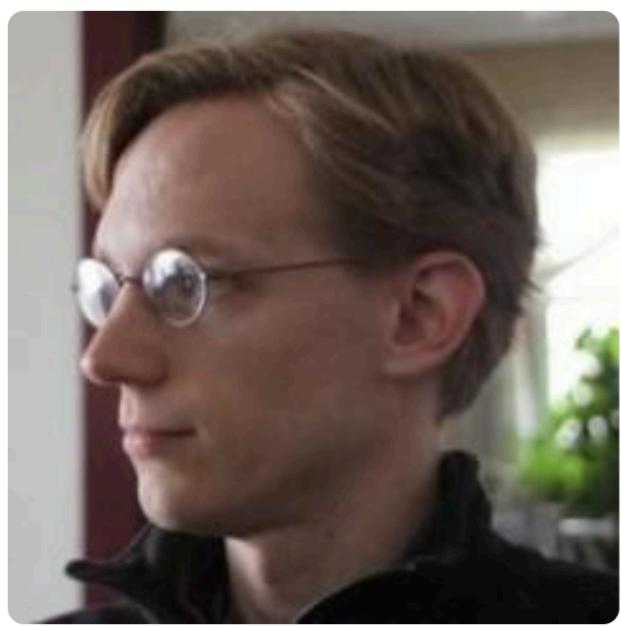
There's a project that you use, and you want to know when it changes

^If you choose "Watch" then you'll be emailed about Pull Requests and other discussions.

**Follow
to see what
a person does**

What does that person do?

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)



Michael Berkowski
mjb

[Follow](#)

 Minneapolis, MN
 mjb@umn.edu

Organizations



Overview Repositories 9 Stars 4 Followers 4 Following 0

Popular repositories

[dashcode-slides](#)

Slides for DASH Summer Camp Intro to Programming

 JavaScript  1

[mysql-simple-adapter](#)

A simple wrapper which allows many of the old ext/mysql functions to be shimmed into ext/mysql

 PHP

[shibposeur](#)

A PHP script that pretends to be a limited Shibboleth Native SP at /Shibboleth.sso

 PHP

[chef-umn-shared-attributes](#)

Forked from [OIT-Infrastructure-Chef/chef-umn-shared-attributes](#)

Cookbook to store shared attributes such as ssh keys.

 Ruby

[ansible-role-umedia-solr](#)

UMedia Solr Configuration for Ansible

[ansible-role-webpack](#)

Install Webpack via Yarn

701 contributions in the last year

Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct

There's a person you collaborate with, or that you want to collaborate with

- ^ Check out their page to see their projects and recent changes
- ^ Click "Follow" to "receive notifications about their activity"

@

to notify
others

Does my friend know about this?

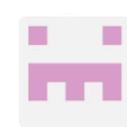
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[Code](#)[Issues 0](#)[Pull requests 0](#)[Projects 0](#)[Wiki](#)[Pulse](#)[Graphs](#)[Settings](#)[Edit](#)[New issue](#)

Option to get "next term" #39

[Closed](#)

ebf opened this issue on Aug 25 · 5 comments



ebf commented on Aug 25



We have a course feeds tool that displays both "this term" and "next term" courses. Would be great to have a look up for this. (As well as perhaps "last term".)



ding0057 commented on Aug 25



Good idea! The JSON API spec has next/previous links built in so this should be easy to do.



whit0694 commented on Aug 25



<http://jsonapi-resources.com/v0.9/guide/resources.html#Custom-Links> may be helpful here.

whit0694 modified the milestone: **1.0.0** 25 days ago

whit0694 referenced this issue 24 days ago

Other Features for 1.0.0? #61

[Closed](#)

whit0694 added a commit that referenced this issue 23 days ago

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

1.0.0

Notifications

[✖ Unsubscribe](#)

You're receiving notifications because you modified the open/close state.

3 participants



I had a question about a feature Ellen requested
^When I include her internet id, prefixed with the @ sign, she's notified

this is
great

Ian Whitney -- whit0694 (email) -- ian_whitney (slack)

Now what?

- How can I read more?
- How can I talk to others?

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How can I read more? <https://help.github.com>

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How can I talk to others online?

[#github or #hacker-hours](https://z.umn.edu/tpslack)

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How can I talk to others in person?

<http://umnhackerhours.github.io>

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Thank You!

Ian Whitney

whit0694 ([email](#))

ian_whitney ([slack](#))

Surdyk's in Northrop ([coffee](#))