

Final Report

Before reading, please watch the **video walkthrough**: <https://youtu.be/Rmdy3o4FAh8>

For Reviewing the code, please use: <https://github.com/hungnuyendinh1999/SPOCComicBookClub/>

TEAM INFORMATION

- Paco (fnoack@clarku.edu)
- Hung Nguyen (hungnguyen2@clarku.edu)
- Cat (cmai@clarku.edu)

ABSTRACT:

Our web development project is a website for the Comic Book Club using Express.js, Node.js, and MongoDB. This project is meant to help a particular part of the Clark Community who doesn't necessarily want to join SPOC, but would love to participate in any Comic book-related things.

The website will allow visitors to know who runs the club, the up-to-date location and time to meet weekly. There's also a RSVP list and a form for people to RSVP, and a SPOC event calendar to see what SPOC (the parent organization of this Comic Club) is organizing in the near future. Of course, a comic book club website also includes a list of conventions for those who are interested.

INTRODUCTION

The SPOC Comic book club is a small group of comic book fans that meets in person to discuss comics and encourage keeping up with recent comic book runs. Having only three active members, it could benefit from attracting new members and elucidating those potential members on the specifics of how to attend club meetings. The website is also populated with current events for comic book lovers to check out, and RSVP's to show currently interested attendees. And the representative of SPOC would also love to have people join SPOC through the Comic book club.

ANALYSIS

Videos used for WAAD:

- An interview with a member of SPOC (Science-Fiction People of Clark)
- 2 English children from the comic book club which the children formed at school

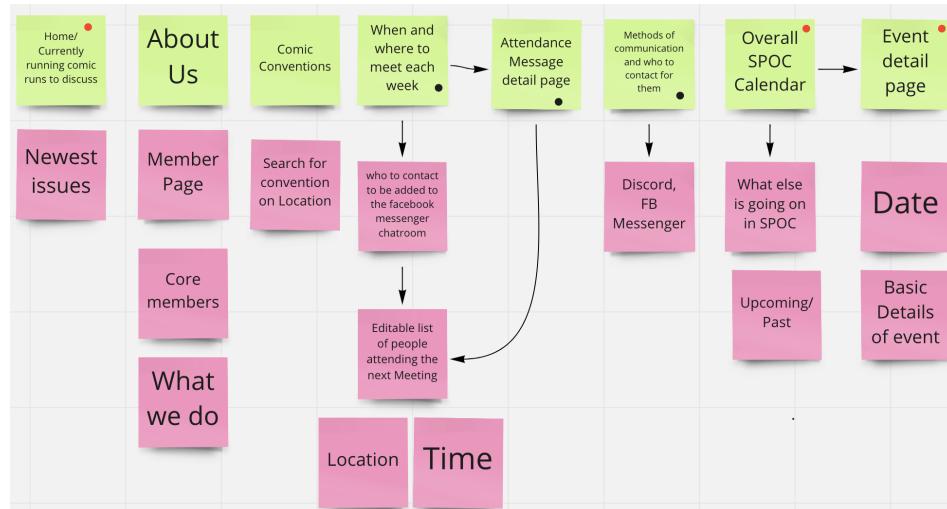


Video 1: <https://youtu.be/UyFK-JWsy-w> - Interview with SPOC's representative on Comic Book Club.

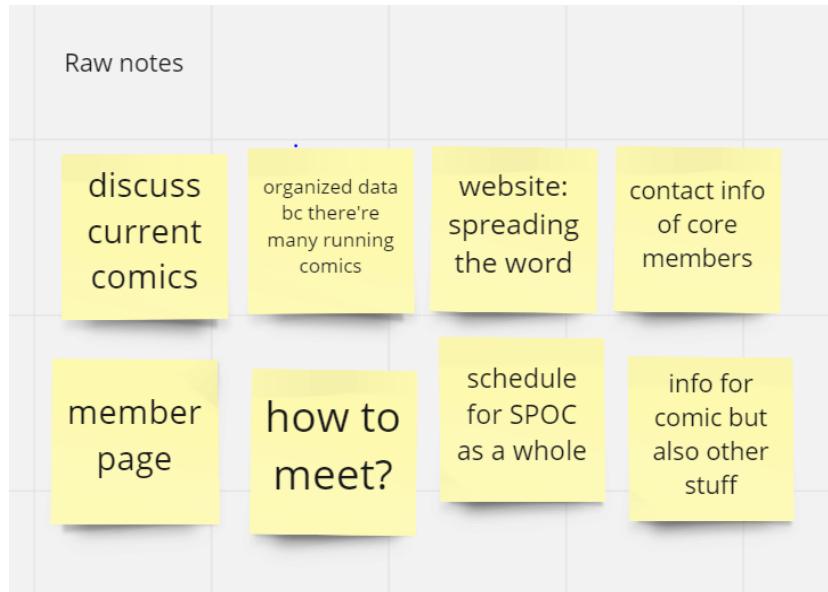


Video 2: <https://www.youtube.com/watch?v=PZASKcOXTow> - Two Friends Start a Comic Book Club

Work Activity Affinity Diagram (WAAD):



Modified Affinity Diagram



Other raw Notes

DESIGN

For un-noted wireframe, please go to Appendix B

Noted wireframes

The image displays three wireframe screenshots of the SPOC Comics website, highlighting design flaws and navigation issues.

- Home of SPOC Comics:** A wireframe of the main landing page. It features a header with a house icon and the menu items: ABOUT US, CONVENTIONS, WEEKLY MEETING INFO, CONTACTS, and SPOC CALENDAR. Below the header is a large "WELCOME COMIC LOVERS" section with a hand-drawn style. Three buttons are present: "Get to Know Us!", "Get in Contact with us.", and "What else is going on in SPOC?". A large red 'X' is drawn over the entire page, indicating significant problems.
- Overall SPOC Calendar:** A wireframe of the calendar page. The header includes a house icon and the menu items: ABOUT US, CONVENTIONS, WEEKLY MEETING INFO, CONTACTS, and SPOC CALENDAR. The main content area is titled "SPOC Events:" and lists several events:
 - Arcade night**: Date: May 5th 2021, Location: [redacted]
 - Smash Bros Tournament**: Date: Jan 5th 2021, Location: [redacted]
 - Chess battle tournament**: Date: June 5th 2020, Location: [redacted]
 - Arcade night**: Date: April 4th, 2021, Location: [redacted]Red arrows point from the "Arcade night" entries in the list to the "Arcade night" entry in the "SPOC Events:" section, suggesting a duplicate or incorrect entry.
- Event Detail:** A wireframe of a specific event page for a "Dragon Quest walkthrough". The header includes a house icon and the menu items: ABOUT US, CONVENTIONS, WEEKLY MEETING INFO, CONTACTS, SPOC CALENDAR. The event details are as follows:
 - Event Information:** Dragon Quest walkthrough, Friday May 3rd 2021, 8PM EST to 9PM EST, 3rd floor of UC, SPOC office.
 - Organizer:** SPOC
 - More SPOC** buttonA large red 'X' is drawn over the entire page, indicating significant problems.

External Website: SPOC website (labeled with a red arrow pointing to the bottom left of the Event Detail wireframe)

Meeting Instructions
<https://www.SPOCComics.com/meeting>

RSVP
<https://www.SPOCComics.com/rsvp>

Contact
<https://www.SPOCComics.com/contact>

All external links

About Us
<https://www.SPOCComics.com/about>

Members
<https://www.SPOCComics.com/members>

Conventions

Event	Date	Location
Nashville Comic Con Comic Book Convention at Nashville Comic Con	5/29/2 5/31/2 5/30/2	Nashville, TN, US
Shoff Promotions Comic Book and Non-Sports Card Show Comic Book Convention at Shoff Promotions Comic Book and N...	5/30/2 6/4/20	Annandale Fire Station, Annandale, U...
Niagara Falls Comic Con Comic Book Convention at Niagara Falls Comic Con	6/7/20	Scotiabank Convention Centre, Niag...
Alabama Comic Con Comic Book Convention at Alabama Comic Con	6/5/20 6/7/20	Birmingham, AL, US

External Links to Convention websites

IMPLEMENTATION

For Website screenshots please go to Appendix B

Project Overview:

Overall, we separately implemented features according to the wireframe. We used MongoDB to store separate collections of Members, events, attendants, and conventions. Then in our front-end side we were able to fetch the data and present them neatly on the webpage. We followed the CRUD implementation, but since we didn't need to really need to delete or update anything (since our project scope did not go so far as User Authentication), we didn't include Update or Delete.

We successfully reached all of our goals for this project, though the UI could use a touch of design from a professional. We were able to modify and talk to our client about what else to implement according to the other resource video (video of the elementary school kids' club). We agreed on adding a convention page, and the design for the SPOC event page needed to change to look friendlier.

One thing we really couldn't do was deploying to GCP. We probably missed some crucial setup procedures that was specific to our product. We tried using MongoDB Atlas and then just upload our project files to the cloud. We managed to configure the GCP's buckets for storing data and managed to upload our website's entire repo and NodeJS config. We had the website link generated through GCP but we couldn't get it to load -- the website kept displaying 502 Bad Gateway error even though traffic through the website was still being recorded.

Hung

All pages have Footer, Navigation bar, and an Interactive UI where changing the page doesn't shift the components around too horribly.

Navigation:

- The logo and 'home' icon goes to the Home directory
- Otherwise others navigate to the pages that they are named. Check the Wireframe section above to see where those go.

SPOC Calendar:

- Displays all events as Bootstrap cards formatted in the specified way from the wireframe: event title, datetime, location, poster picture, categories
- It queries the "Event" collection from the database.
- Adjust the number of cards per row based on window size
- All elements are sorted (by default) by dates
- On event card click, it navigates to the Event-detail page and send and "event_id" for query

Event detail:

- Page queries using given “event_id” and retrieve the event document from the “Event” collection
- Display all information regarding the event: event title, date, time, location, poster picture, Organizer, Event description, and categories.
- Under organizers, there’s a button that leads to the organizer’s website. For this project, it leads to the

Paco:

About Us:

- Page has no interactivity.
- It queries the “Member” collection from the database.

Conventions page:

- Page allows searching by name, description and location and sorting by start date.
- All event names link to the event websites, and the page queries the “Conventions” database.

Cat:

Contact page:

- Has 3 social media buttons. Contact info is generated through backend JS. No database

Weekly meeting:

- Navigates to RSVP detail page: RSVP signup form
- RSVP’ed People list populated using get router - querying mongodb.

RSVP Form:

- Navigated here via Weekly meeting
- Form input validated through JS
- “Cancel” button routes back to Weekly meeting page, “Submit” button sends nodejs post method, saving the user info
- RSVP Database entity:
 - Avatar Url (optional): String (if the user doesn’t provide a url, use a default image)
- The database only saves and not delete or edit.

For Model design, please check out Appendix A

TEAM PEER EVALUATION

Paco

Hung worked hard on unexpected additions to the project: 33%

Cat did well to communicate and ask questions from the other collaborators: 33%

Cat

Hung: Implemented Home page, SPOC Calendar page + event detail, headers: 33%

Paco: Implemented footers, About, and Conventions pages: 33%

Cat: Implemented Contact, Weekly meeting page +rsvp form detail: 33%

Hung

I think we evenly distributed the work. Even though some might *look* simpler than others, I personally believe everyone had their own challenges and overcame them. We meet up every week to make sure that we were on track of the timeline we set out. We would be transparent about our work and was able to resolve potential internal conflicts. We have done a great job!

Paco was very efficient with his coding and was very quick to adapt to the majority's concerns regarding the code. He could have been more detailed with his explanations on certain features of the project. It's not simple, but soft-skills are required to communicate effectively in any industry. 33%

Cat was very active and could manage her work well. She was very clear of her intentions and raised realistic and extremely relevant concerns that lead to the success of our project. One thing she could (we all could) improve on is project planning and time management for the project. We could have done more if we allocate time more effectively, and maybe do SCRUM-like sprints for each features. 33%

For myself, I would have done a better job to organize the team if I was more active, but being in a different timezone has its communication disadvantages. My teammates helped me to overcome this obstacle. 33% for me as well.

APPENDIX

Appendix A

```
app.get('/get_cons_by_filters',(req : Request<P, ResBody, ReqBody, ReqQuery, Locals> , res : Response<ResBody, Locals> )=>{
    let sk = req.query.search_key;
    const hasSK = new RegExp(sk, flags: "i")
    Convention.find( filter: {
        $or: [
            {event_name: {$regex: hasSK}},
            {description: {$regex: hasSK}},
            {location: {$regex: hasSK}}
        ]
    }, callback: (err,data : unknown[] ) =>{
        if (err) {
            res.send( body: {
                "message":"db error",
                "data":[]
            });
        } else {
            res.send( body: {
                "message":"success",
                "data":data
            });
        }
    });
});
```

Search feature on Conventions page - using Regex to filter search query

```
function search() {
    console.log("filtering by search:")
    $.get('/get_cons_by_filters', {
        search_key: $('#search_box').val()
    }).done((data) => {
        if (data.message === "success") {
            list = data["data"];
            showList(list);
        }
    });
}
```

Pass the search query to the GET router. After the NodeJS function finishes, pass the result to showList function to reflect the changes onto the website

```

app.post( path: "/save_rsvp", handlers: (req : Request<P, ResBody, ReqBody, ReqQuery, Locals>, res : Response<ResBody, Locals>) => {
    let avatar = null;
    if (!req.body.avatar) {
        avatar = "https://cdn.vox-cdn.com/thumbor/X7fW7KYz0XEz57TAGoUcDU2YpbA=/0x0:696x534/1200x800/filters:focal(293x212:403x322).jpg";
    } else {
        avatar = req.body.avatar;
    }
    const rsvp = {
        name: req.body.name,
        email: req.body.email,
        avatar: avatar,
        head_count: req.body.head_count,
        message: req.body.message,
    };

    const nr = new Rsvp(rsvp);
    nr.save(
        fn: (err : CallbackError, new_rsvp : Document<any, any>) => {
            if (err) {
                console.log(err['message']);
            } else {
                res.redirect(url: "/weekly_meeting");
            }
        }
    );
});

```

NodeJS post method for saving user's info on RSVP. The function checks if an image path is provided, if not it will use a default image (batman).

```

const SPOCEvent = mongoose.model( name: 'SPOCEvent', eventSchema);

const Member = mongoose.model( name: 'Member', memberSchema);

const Convention = mongoose.model( name: 'Convention', conSchema);

const Rsvp = mongoose.model( name: 'Rsvp', rsvpSchema);

```

Initialize the models for MongoDB (mongoose)

```
const eventSchema = new mongoose.Schema( definition: {
    event_name: String,
    date: String,
    time_from: String,
    time_to: String,
    location: String,
    description: String,
    img_url: String,
    categories: [String]
})

const memberSchema = new mongoose.Schema( definition: {
    fullname: String,
    image_path: String,
    roles: String,
    pronouns: String,
    description: String
});

const conSchema = new mongoose.Schema( definition: {
    event_name: String,
    description: String,
    location: String,
    start: Date,
    end: Date,
    url:String
});

const rsvpSchema = new mongoose.Schema( definition: {
    name: String,
    avatar: String,
    email: String,
    head_count: Number,
    message: String,
    interests: [String]
});
```

The Different Schemas for our MongoDB collections

```
app.get('/get_event_by_id', function(req : Request<P, ResBody, ReqBody, ReqQuery, Locals>, res : Response) {
    // console.log(req.query.event_id)

    SPOCEvent.find( filter: {"_id": req.query.event_id}, callback: function(err, data : unknown[] ) {
        if (err || data.length === 0) {
            res.send( body: {
                "message": "internal database error: SPOC_by_ID",
                "data": {}
            })
        } else {
            res.send( body: {
                "message": "success",
                "data": data[0]
            })
        }
    })
})
```

Default structure for querying by id. This snippet is for Event Detail page.

Appendix B:

Website Screenshots

The screenshot shows the homepage of the Comic Book Club website. The header features the "COMIC BOOK CLUB" logo in yellow and black. Below the header is a navigation bar with links: ABOUT US, CONVENTIONS, WEEKLY MEETING INFO, CONTACTS, and SPOC CALENDAR. The main content area has a yellow background with red and orange radial stripes. A large "Welcome to Comic Book Club!" message is centered. Below it are three buttons: "Get to Know Us!", "Get in Contact with Us!", and "What else is going on in SPOC". Underneath this section is a comic book cover for "DEADPOOL KILLS THE MARVEL UNIVERSE" #1. The cover art features Deadpool standing in front of Captain America's face. At the bottom of the page is a blue footer with the text "Comic Book Club", "© 2021 Science-fiction People Of Clark (SPOC)", and "Copyright: All rights reserved".

Welcome to Comic Book Club!

Get to Know Us! Get in Contact with Us! What else is going on in SPOC

Comics we're talking about

DEADPOOL KILLS THE MARVEL UNIVERSE #1

MARVEL PARENTAL ADVISORY! BUNN TALAJIC LOUGHRIE

PARENTAL ADVISORY! NOT FOR KIDS!

Let Us know what you think by going to Our Next Weekly Meeting

Comic Book Club
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About Us

SPOC Comic Book Club is an organization under Science-fiction People Of Clark that meets in person to discuss recent comic book runs and explore the weirder parts of comic book lore. Anyone can join simply by attending one of our meetings.

Our members are:

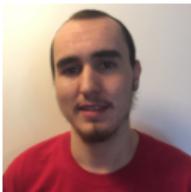


Griffin Ford

SPOC Treasurer

Pronouns: She/Her

Griffin Ford is an X-Men fan who helps the club keep up to date on Marvel Comics runs. If she's not complaining about the MCU you can find her gushing over Eye-Boy or Glob.



Luke d'Entremont

Pronouns: They/Them

Luke d'Entremont is a fan of the works of James Tynion, and helps the club cover DC runs. Ask them about The Outsider and buckle up for an in-depth discussion about Alfred Pennyworth in purple spandex.



Francisco Noack

Pronouns: He/Him

Francisco (Paco) Noack enjoys 17776, a Football Story and Atomic Robo. His depth of knowledge mainly covers anime and webcomics. He talks too much about Godzilla

Comic Book Club

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Upcoming Conventions



Event	Dates	Location
Nashville Comic Con Comic Book Convention at Nashville Comic Con	5/29/2021 - 5/31/2021	Nashville, TN, US
Shoff Promotions Comic Book and Non-Sports Card Show Comic Book Convention at Shoff Promotions Comic Book and Non-Sports Card Show	5/30/2021 - 5/30/2021	Annandale Fire Station, Annandale, US
Niagara Falls Comic Con Comic Book Convention at Niagara Falls Comic Con	6/4/2021 - 6/7/2021	Scotiabank Convention Centre, Niagara Falls, CA
Alabama Comic Con Comic Book Convention at Alabama Comic Con	6/5/2021 - 6/7/2021	Birmingham, AL, US
Philadelphia Comic-Con Comic Book Convention at Philadelphia Comic-Con	6/6/2021 - 6/6/2021	Clarion Hotel Philadelphia International Airport, Essington, US
Westchester Comic Show Comic Book Convention at Westchester Comic Show	6/6/2021 - 6/6/2021	Anshe Sholom Synagogue, New Rochelle, US
Campbell Con Comic Book Convention at Campbell Con	6/12/2021 - 6/12/2021	Reno, NV, US
Comic Book and More Show Comic Book Convention at Comic Book and More Show	6/13/2021 - 6/13/2021	Delta Hotels by Marriott Baltimore Hunt Valley, Hunt Valley, US



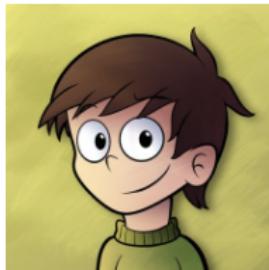
Meeting Info

Time

Every Friday 8pm

Location

JSC lounge 3rd or 4th floor depending on what's available. Confer with the FB messenger chat to find out which, see Contact page for how to be added to the Facebook Messenger chat.

[RSVP Here](#)**List of RSVP'ed People****Amy Green**

Email: agreen@college.edu

Number of people coming: 2

Message: hi i'm amy, i'm bringing my friend jack. we're looking for folks who are into wonder woman!

**paula g**

Email: paula1787@gmail.com

Number of people coming: 1

Message: hi

**brad hademan**

Email: brad_h@gmail.com

Number of people coming: 1

Message: im new

COMIC BOOK CLUB

ABOUT US CONVENTIONS WEEKLY MEETING INFO CONTACTS SPOC CALENDAR

Contact

Say Hi!
We talk over Discord and Facebook Messenger. Contact Griffin Ford [gford@clarku.edu] to be added to Facebook Messenger, Discord invitation is below. The SPOC Discord is for the whole of SPOC and used for remote meetings. The channel we use is Tavern 1. Facebook messenger is our main method of communication and how we organize meetings.

We are active on these platforms:

 Facebook  Discord  Clark Labs

Still Have Questions?



Griffin Ford
SPOC Treasurer
Pronouns: She/Her
Email: gford@clarku.edu
Griffin Ford is an X-Men fan who helps the club keep up to date on Marvel Comics runs. If she's not complaining about the MCU you can find her gushing over Eye-Boy or Glob.

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COMIC BOOK CLUB

ABOUT US CONVENTIONS WEEKLY MEETING INFO CONTACTS SPOC CALENDAR

RSVP Form

Name

Email

Avatar url (Optional)

Number of people attending

Message

Save **Cancel**

Comic Book Club
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COMIC BOOK CLUB

ABOUT US CONVENTIONS WEEKLY MEETING INFO CONTACTS SPOC CALENDAR

SPOC Events

Comic Book Night

Friday, May 9 2021 at 7:00 PM EST
University Center 311 (SPOC Office)

Meeting Comic

Wellness Day Werewolf

Thursday, May 20 2021 at 4:00 PM EST
Lurie Conference Room, UC

Game RPG

Magic the Gathering Draft

Saturday, March 14 2021 at 9:00 PM EST
3rd Floor of the UC Asher Suite

Game Competition Card game

Poker Night

Monday, February 17 2021 at 7:30 PM EST
Sackler 223

Game Card game

Dungeons and Dragons Night

Saturday, February 16 2021 at 8:00 PM EST
Lurie Conference Room, UC

Game RPG

Poker Night

Monday, February 10 2021 at 7:30 PM EST
Sackler 223

Game Card game

Super Smash Bros Ultimate

Saturday, February 8 2021 at 8:00 PM EST
Lurie Conference Room, UC

Game Video game Competition

Poker Night

Monday, February 3 2021 at 7:30 PM EST
Sackler 223

Game Card game

Mario Kart Tournament

Saturday, February 1 2021 at 8:00 PM EST
Lurie Conference Room, UC

Game Video game Competition

Arcade Night

Saturday, February 1 2021 at 4:00 PM EST
University Center 311 (SPOC Office)

Game

Arcade Night

Friday, January 31 2021 at 8:00 PM EST
University Center 311 (SPOC Office)

Game

Board Game Night

Thursday, January 30 2021 at 8:00 PM EST
Lurie Conference Room, UC

Game

Comic Book Club

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COMIC BOOK CLUB

ABOUT US CONVENTIONS WEEKLY MEETING INFO CONTACTS SPOC CALENDAR

Comic Book Night
Hosted by SPOC

Friday, May 9 2021
From 7:00 PM EST to 8:00 PM EST
University Center 311 (SPOC Office)

Event Description
A meeting for the Comic Book / Manga club. Those who love to discuss, analyze and just plain geek out about your favorite comics and manga, come vote on our themes and meeting times for the year!

Categories
Meeting Comic

Hosted by
 Science-fiction People of Clark
SPOC is a student-run organization from Clark University dedicated to feed all interests affiliated with "nerd" culture. In accomplishing this, we host weekly comic book nights, weekly game nights, anime showsease nights, Magic the Gathering events, creative campus events, a comic book store, a comic book swap meet, and even an in-house convention!

For more information: [Click here!](#)

Un-noted Wireframe

Home of SPOC Comics

ABOUT US CONVENTIONS WEEKLY MEETING INFO CONTACTS SPOC CALENDAR

WELCOME COMIC LOVERS

Get to Know Us! Get in Contact with us What else is going on in SPOC

Comic runs we're talking about

Let us know what you think by going to our weekly meetings!

Overall SPOC Calendar

ABOUT US CONVENTIONS WEEKLY MEETING INFO CONTACTS SPOC CALENDAR

SPOC Events:

- Arcade night Date: May 8th 2021 Location: _____
- Braah Bros Tournament Date: Jun 8th 2021 Location: _____
- Chess battle tournament Date: June 8th 2020 Location: _____
- Arcade night Date: April 4th, 2021 Location: _____
- Dungeons and Dragons Date: April 4th, 2021 Location: _____

Event Detail

ABOUT US CONVENTIONS WEEKLY MEETING INFO CONTACTS SPOC CALENDAR

Dragon Quest walkthrough

Date: Friday May 3rd 2021 Time: 8PM EST to 9PM EST Location: 3rd floor of UC, SPOC office

Organizer: SPOC More SPOC

Meeting Instructions

ABOUT US MEMBERS WHEN AND WHERE TO MEET EACH WEEK CONTACTS SPOC CALENDAR

Meeting Info

Add RSVP

Current RSVP'd People

	Amy Green
	Amy Green

RSVP

ABOUT US MEMBERS WHEN AND WHERE TO MEET EACH WEEK CONTACTS SPOC CALENDAR

Add your RSVP

Amy Doe
amy@amydoe.com

coming 30' late but bringing friends (edit: joe said he can't come)

Submit

Contact

ABOUT US MEMBERS WHEN AND WHERE TO MEET EACH WEEK CONTACTS SPOC CALENDAR

Best ways to reach us and get involved:

Facebook Discord Clerk Engage

Contact Info

About Us

<https://www.SPOCCComics.com/about>

Member	Name	Pronouns
	Griffin Ford	she/her
	Paco Noack	he/him

Members

<https://www.SPOCCComics.com/members>

Conventions

Event	Date	Location
Nashville Comic Con Comic Book Convention at Nashville Comic Con	5/29/20	Nashville, TN, US
Shoff Promotions Comic Book and Non-Sports Card Show Comic Book Convention at Shoff Promotions Comic Book and N	5/30/20	Annandale Fire Station, Annandale, U
Niagara Falls Comic Con Comic Book Convention at Niagara Falls Comic Con	6/4/20	Scotiabank Convention Centre, Niag
Alabama Comic Con Comic Book Convention at Alabama Comic Con	6/7/20	Birmingham, AL, US
-	6/5/20	-
-	6/7/20	-

END