

# Delivering a Better Experience by Using the Open, Collaborative and Flexible Grav CMS – Inside or Outside of your LMS

**Paul D Hibbitts**  
**hibbittsdesign.org**  
**@hibbittsdesign**



# 🚀 Topics to Explore Today 🚀

1. What is Grav?
2. Grav Open Course Hub Project
3. Other Open-related Grav Projects
4. Next Steps

# What is Grav?



# BUILD **FASTER** WEBSITES

GRAV IS A MODERN OPEN SOURCE FLAT-FILE CMS

GET GRAV

STABLE VERSION **1.4.3** **NEW!** UPDATED **3 WEEKS AGO** • [CHANGELOG](#)

# WHY CHOOSE GRAV?

Voted "Best Open  
Source CMS" in  
2016



Voted "Best Flat  
File CMS" in 2017



Fast



Extensible



Open Source

Performance is not just an  
afterthought, we baked it in from  
the start

Grav has a powerful API and  
sophisticated Package Manager to  
make it super flexible

[ GitPitch @ [github.com/hibbitts-design/gitpitch](https://github.com/hibbitts-design/gitpitch) ]

Grav is Open Source, and all the  
code is available on [GitHub.com](https://github.com)

# Grav Highlights

- File-based
  - Fast performance (esp. smaller sites), simplicity, portability and generally more secure
  - File-based content also naturally supports version control
  - Grav can also be a front-end for any collaborative Git repository
- Markdown
  - A platform-independent format perfect for writing and the 5Rs

# Grav Highlights

- Modular
  - Modular content is possible, along with custom content types
- Workflow
  - Supports an efficient edit and publish workflow (esp. Git-based)
- Customization
  - Powerful Blueprints supports Admin Panel customizations

# Grav's Layered Conceptual Design





# Open Course Hub Project



# Grav Open Course Hub

Built using Grav, Open Course Hub with Git Sync is designed to give tech-savvy educators an open, collaborative and flexible platform that they can partner with their current LMS

# Grav Open Course Hub

- Streamlined setup and configuration (incl. Git Sync)
- Supports open and collaborative content (via Git repository)
- Theme files synced to Git repository for collaborative authoring/assistance
- Example course hubs (incl. basic, intermediate. and advanced)
- Includes custom content type pages and Shortcodes (i.e. Embed.ly Web page preview cards, H5P and Swipe)
- Fully customizable Sidebar using Markdown or HTML

✓ Usability inspection peer reviews due Oct 17th



Required Reading Quiz

 Week 4 (Sep 27 - Oct 3)



📅 Week 3 (Sep 20 - 26)



📅 Week 2 (Sep 13 - 19)



« 1 2 »

- Canvas LMS
- Calendar
- Assignments
- Quizzes
- Class Discussions
- Grades
- Syllabus

**NIELSEN NORMAN GROUP**

When does ideation typically occur in your team's design process?

Frequency	Designers (%)	Non-Designers (%)
Very Often	35	25
Several Times a Week	40	30
Once a Week	20	25
Not at all or Very Rarely	5	20

[Read the article on nngroup.com >](#)

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CPT-363

A Twitter list by [@hibbitsdesign](#)



Built with [Grav CMS](#)  
[ [GitPitch](#) @ [github.com/hibbittsdesign/gitpitch](#) ]

## Important Reminders

✓ Usability inspection peer reviews due Oct 17th



## Oct 4th Class Preparations

Required Reading

[A Five-Step Process For Conducting User Research](#)

### Required Reading Quiz

Slides to be Discussed

[User Research](#)

Did you attend this class? [Share your one-minute summary](#) before midnight, the day of class.

## 📅 Week 4 (Sep 27 - Oct 3)



Course Facilitators

Some Name

[somename@somewhere.edu](mailto:somename@somewhere.edu)

Office hours Mon. 4:00-5:15pm

Harbour Centre 2146

Another Name

[anothername@somewhere.edu](mailto:anothername@somewhere.edu)

Canvas LMS

[Calendar](#)

[Assignments](#)

[Quizzes](#)

[Class Discussions](#)

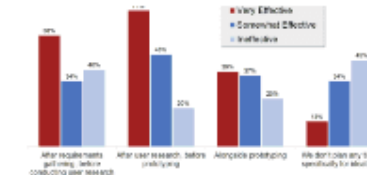
[Grades](#)

[Syllabus](#)

Web Pick of the Week

### NN NIELSEN NORMAN GROUP

When does ideation typically occur in your team's design process?



nnngroup.com  
NN/g

Ideation in Practice:  
How Effective UX Teams Generate Ideas

## Ideation in Practice: How Effective UX Teams Generate Ideas

Ideation processes can vary widely - from how many people are involved to what techniques are used. To get an understanding of how ideation is commonly approached, what the challenges are, and what methods are

# Oct 4th Class Preparations

## Required Reading

### A Five-Step Process For Conducting User Research

#### Required Reading Quiz

## Slides to be Discussed

### User Research

Did you attend this class? [Share your one-minute summary](#) before midnight, the day of class.

## 📅 Week 4 (Sep 27 - Oct 3)



Image: Rick Dolishny, Flickr.com

## Presented Slides

### User Interface Inspections

[View all of Week 4 \(Sep 27 - Oct 3\)](#) ➤

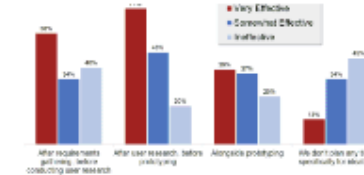
## 📅 Week 3 (Sep 20 - 26)

## Syllabus

## Web Pick of the Week

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Ideation in Practice:  
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## Ideation in Practice: How Effective UX Teams Generate Ideas

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[Read the article on nngroup.com >](#)

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## Twitter Feed

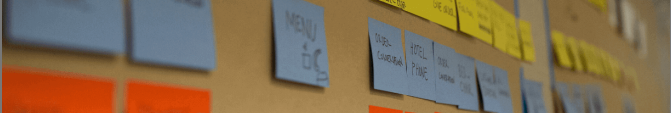
CPT-363

A Twitter list by [@hibbittsdesign](#)

 Laura Klein Retweeted



Adrian Howard  
[@adrianh](#)



## CPT-363

[RESOURCES](#) [SYLLABUS](#) [READ ME](#) [EDIT THIS PAGE](#)

### 📅 Week 4 (Sep 27 - Oct 3)

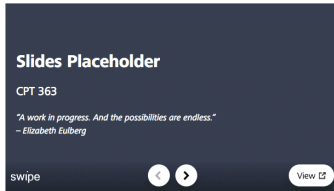


Summaries and Questions

Sep 27th Class One-minute Summaries

Presented Slides

User Interface Inspections (Download slides as PDF)



Supplemental Materials



Assignments

Usability Inspection (Peer Reviews Required for Grade)

Usability Inspection Report Template

Required Reading

📖 UXMATTERS

#### An Overview of Expert Heuristic Evaluations

When experts conduct heuristic evaluations ... they do not usually attempt to map user interface problems directly to specific heuristics because the mapping of problems to heuristics is typically many-to-many, convoluted, and multidimensional. When experts conduct heuristic evaluations- particularly outside academic contexts-they do not usually attempt to map user interface problems directly to specific heuristics because the mapping of problems to heuristics is typically many-to-many, convoluted, and multidimensional.

[Read the article on uxsmatters.com >](#)

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Quick Quiz

A heuristic evaluation is a task-based walkthrough of a user interface.

☐ True

☐ False

[Check](#)

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36P

[< Previous](#)

[Next >](#)

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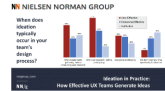
Quizzes

Class Discussions

Grades

Syllabus

Web Pick of the Week



#### Ideation in Practice: How Effective UX Teams Generate More Ideas

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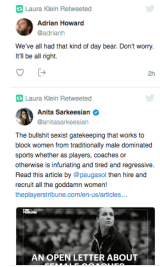
[Read the article on nmgroup.com >](#)

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Twitter Feed

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A Twitter list by @hbbitdesign



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[View on Twitter](#)

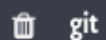
Built with Grav CMS

[ GitPitch @ [Course Hub package by hbbitdesign.org](#) | [gn/gitpitch](#) ]





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git

Dashboard

Configuration

Pages 26

Plugins 20

Themes 3

Tools

Logout

Content

Options

Advanced

Blog Item

Normal

Expert

Title

Week 4 (Sep 27 - Oct 3)

H5P

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##### Presented Slides

[\[User Interface Inspections\]\(https://swipe.to/9967fp\)](https://swipe.to/9967fp)

===

##### Summaries and Questions

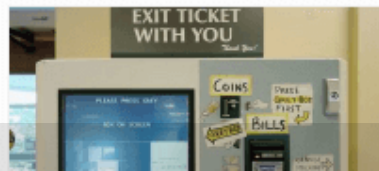
[\[Sep 27th Class One-minute Summaries\]\(https://canvas.sfu.ca/courses/36662/assignments/267535\)](https://canvas.sfu.ca/courses/36662/assignments/267535)

##### Presented Slides

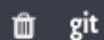
User Interface Inspections ([\[Download slides as PDF\]\(#\)](#))

```
<div class="embed-responsive embed-responsive-16by9"><figure><iframe src="https://www.swipe.to/embed/9967fp"
allowfullscreen></iframe></figure></div>
```

Page Media





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Dashboard

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Plugins 20

Themes 3

Tools

Logout

Add Filters

Search Pages



+ Expand All

- Collapse All

+ Home

/home → blog



○ Schedule

/schedule → sidebarpage



○ Resources

/resources → sidebarpage



○ Syllabus

/syllabus → fullwidthpage



○ Read Me

/readme → fullwidthpage



○ Footer

/footer → default



○ Header Image

/headerimage → default



○ Mini Homepage for Embedding

/mini-home → fullwidthpage



○ Sidebar

/sidebar → default



○ Web Pick of the Week

/webpage-card → embedlycard



## Add Blog Item

Blog Item Title \*

Parent Page



Continue



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Themes 3

Tools

Logout

Content

Options

Advanced

Blog Item

Normal

Expert

Title

My New Blog Item

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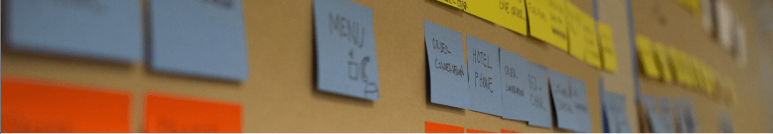


Your page summary goes here.

===

Your page content goes here.

NOTE: You cannot add media files until you save the page. Just click 'Save' on top



Resources

- Reflective Writing Guides
- [A short guide to reflective writing](#)
  - [Online Guide to Reflective Writing](#)
  - [Reflective Toolbox](#)

- UX Platform Guideline Collections
- [Android User Interface Design Guidelines](#)
  - [Google Material Design Guidelines](#)
  - [iOS Human Interface Design Guidelines \(iPhone and iPad\)](#)
  - [KDE Human Interface Design Guidelines](#)
  - [OS X Human Interface Design Guidelines](#)
  - [Windows App Design Guidelines \(Touch\)](#)

- UX Templates
- [Contextual Interview Form](#)
  - [One Page User Research Plan](#)
  - [Templates & Downloadable Documents | Usability.gov](#)
  - [cxpartners | Resources](#)
  - [The PM Toolkit](#)
  - [UX Project Checklist](#)

- UX Design Checklists
- [A Checklist for Designing Mobile Input Fields](#)
  - [Mobile UX Checklist \(PDF, by Mobify\)](#)
  - [One-Page Touch Interaction Design Checklist \(PDF\)](#)
  - [Usability checklist \(Userium\)](#)
  - [UX Project Checklist](#)

- UX Technique Collections
- [Methods | Usability.gov](#)
  - [Methods | Usability Body of Knowledge](#)
  - [Usability Planner](#)
  - [UX Techniques \(by UX Mastery\)](#)

- UX Article Collections
- [The UX Bookmark](#)
  - [User Experience Magazine \(UXPA\)](#)
  - [UI/UX Articles \(Medium\)](#)

- UX eBooks
- [50 UX Best Practices by Above the Fold \(email address required\)](#)
  - [Bright Ideas for User Experience Designers](#)
  - [The Fable of the User-Centered Designer](#)

- UX Design MOOCs & Courses
- [Human-Computer Interaction | Coursera](#)
  - [The Design of Everyday Things | Udacity](#)
  - [Rapid Wireframing: Finding the Right Product Design](#)

- UX Podcast Collections
- [Design Critique: Products for People](#)
  - [Podcasts - UIE Brain Sparks](#)
  - [Boagworld Podcast](#)
  - [User Experience Podcast](#)

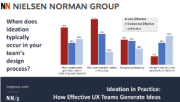
- UX Video Collections
- [Google Developers Channel](#)
  - [Interaction Design Association Vimeo Channels](#)
  - [Paul's YouTube Playlists](#)
  - [Paul's Vimeo Channel](#)

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[Canvas LMS](#)  
[Calendar](#)  
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[Quizzes](#)  
[Class Discussions](#)  
[Grades](#)  
[Syllabus](#)

Web Pick of the Week



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[Read the article on nngroup.com >](#)

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Twitter Feed

CPT-363

A Twitter list by @hibittsdesign

The image shows a snippet of a Twitter feed. It includes three tweets. The first tweet is from Laura Klein (@lauraklein) retweeting Adrian Howard (@adrianh). The second tweet is from Laura Klein (@lauraklein) retweeting Anita Sarkesian (@anitasarkesian). The third tweet is from Anita Sarkesian (@anitasarkesian) with the text: 'The bulnht sexist gatekeeping that works to block women from traditionally male dominated sports whether as players, coaches or otherwise is infuriating and tired and regressive. Read this article by @pauzani then hire and recruit all the goddamn women! theplayertribune.com/en-us/articles...'. Below the tweets are the words 'Embed' and 'View on Twitter'.



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- [Windows App Design Guidelines \(Touch\)](#)

### UX Templates

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- [The PM Toolkit](#)

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### Canvas LMS

#### Calendar

#### Assignments

#### Quizzes

#### Class Discussions

#### Grades

#### Syllabus

### Web Pick of the Week

#### NI NIELSEN NORMAN GROUP

When does  
ideation  
typically





This repository

Search

Pull requests

Issues

Marketplace

Explore



paulhibbitts / grav-skeleton-course-hub-site

Unwatch

1

★ Star

0

🍴 Fork

0

&lt;&gt; Code

! Issues 0

🔗 Pull requests 0

📁 Projects 0

📖 Wiki

📊 Insights

⚙️ Settings

grav-skeleton-course-hub-site / pages / 03.resources / sidebarpage.md



or cancel

&lt;&gt; Edit file

👁️ Preview changes

Spaces



2



Soft wrap



```
1 ---
2 title: Resources
3 published: true
4 ---
5
6 #### Reflective Writing Guides
7 * [A short guide to reflective writing](https://intranet.birmingham.ac.uk/as/libraryservices/library/skills/asc/documents/public/Short-Guide-Reflective-Writing.pdf)
8 * [Online Guide to Reflective Writing](https://nile.northampton.ac.uk/bbcswebdav/pid-1244383-dt-content-rid-3278540_1/courses/Centre-for-Achievement-and-Performance/Skills/Reflective%20Writing/Reflective%20Writing%20-%20Feb%202017.pdf)
9 * [Reflective Toolbox](http://writeonline.ca/media/documents/ReflectiveToolbox.pdf)
10
11 #### UX Platform Guideline Collections
12 * [Android User Interface Design Guidelines](https://developer.android.com/guide/practices/ui_guidelines/index.html)
13 * [Google Material Design Guidelines](https://material.google.com/)
14 * [iOS Human Interface Design Guidelines (iPhone and iPad)](https://developer.apple.com/ios/human-interface-guidelines/)
15 * [KDE Human Interface Design Guidelines](https://community.kde.org/KDE_Visual_Design_Group/HIG)
16 * [OS X Human Interface Design Guidelines](https://developer.apple.com/library/mac/documentation/UserExperience/Conceptual/OSXHIGuidelines/index.html#//apple_ref/doc/uid/TP40002720-TPXREF101)
17 * [Windows App Design Guidelines (Touch)](https://msdn.microsoft.com/en-us/library/dn742468.aspx)
18
19 #### UX Templates
20 * [Contextual Interview Form](http://userfocus.co.uk/pdf/cisheet.pdf)
21 * [One Page User Research Plan](https://www.smashingmagazine.com/2012/01/ux-research-plan-stakeholders-love/)
22 * [Templates & Downloadable Documents | Usability.gov](http://www.usability.gov/how-to-and-tools/resources/templates.html)
23 * [cxpartners | Resources](http://www.cxpartners.co.uk/ux-resources/)
24 * [The PM Toolkit](http://thepmtoolkit.com/)
```

GitPitch @ github/hibbitts-design/gitpitch



This repository

Search

Pull requests

Issues

Marketplace

Explore



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 Unwatch ▾

1

★ Star


0

 Fork


0

<> Code

! Issues 0

 Pull requests 0

 Projects 0

 Wiki

 Insights


 Settings

No description, website, or topics provided.

Edit

[Add topics](#)

 6 commits

 1 branch

 0 releases

 2 contributors

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾



trilby-bot (Grav GitSync) Automatic Commit from paulhibbitts

 [pages](#)


(Grav GitSync) Automatic Commit from paulhibbitts

 [themes](#)

(Grav GitSync) Automatic Commit from paulhibbitts

 [README.md](#)

Initial commit

 [README.md](#)

Clone with HTTPS ⓘ

[Use SSH](#)

Use Git or checkout with SVN using the web URL.

<https://github.com/paulhibbitts/grav->



Open in Desktop

Download ZIP

# grav-skeleton-course-hub-site



Project

grav-skeleton-course-hub-site

pages

01.home

02.schedule

03.resources

sidebarpage.md

10.syllabus

20.readme

footer

headerimage

mini-home

sidebar

webpage-card

themes

README.md

sidebarpage.md

1

2 title: Resources

3 published: true

4

5

6 #### Reflective Writing Guides

7 \* [A short guide to reflective

8 \* writing](https://intranet.birmingham.ac.uk/as/libraryservices/libra

9 \* ry/skills/asc/documents/public/Short-Guide-Reflective-Writing.pdf)

10

11 \* [Online Guide to Reflective

12 \* Writing](https://nile.northampton.ac.uk/bbcswebdav/pid-1244383-dt-c

13 \* ontent-rid-3278540\_1/courses/Centre-for-Achievement-and-Performance

14 \* /Skills/Reflective%20Writing/Reflective%20Writing%20-%20Feb%202017.

15 \* pdf)

16

17 \* [Reflective

18 \* Toolbox](http://writeonline.ca/media/documents/ReflectiveToolbox.pd

19 \* f)

20

21 #### UX Platform Guideline Collections

22 \* [Android User Interface Design

23 \* Guidelines](https://developer.android.com/guide/practices/ui\_guidel

24 \* ines/index.html)

25

26 \* [Google Material Design

27 \* Guidelines](https://material.google.com/)

28

29 \* [iOS Human Interface Design Guidelines (iPhone and

30 \* iPad)](https://developer.apple.com/ios/human-interface-guidelines/)

31

32 \* [KDE Human Interface Design

33 \* Guidelines](https://community.kde.org/KDE\_Visual\_Design\_Group/HIG)

34

35 \* [OS X Human Interface Design

36 \* Guidelines](https://developer.apple.com/library/mac/documentation/U

37 \* serExperience/Conceptual/OSXHIGuidelines/index.html#//apple\_ref/doc

38 \* /uid/TP40002720-TPXREF101)

39

40 \* [Windows App Design Guidelines

41 \* (Touch)](https://msdn.microsoft.com/en-us/library/dn742468.aspx)

42

43 #### UX Templates

Git

Unstaged Changes

No changes

Staged Changes

No changes

Commit message

Commit to master 72

(Grav GitSync) Automatic Com... Undo 2d

(Grav GitSync) Automatic Commit from... 3d

(Grav GitSync) Automatic Commit from... 3d

pages/03.resources/sidebarpage.md 1:1

Git — ~/Desktop/grav-skeleton-course-hub-site

GitPitch @ github/hibbitts-design/gitpitch UTF-8 GitHub Markdown master Fetch 0 files 1 update

24 / 47

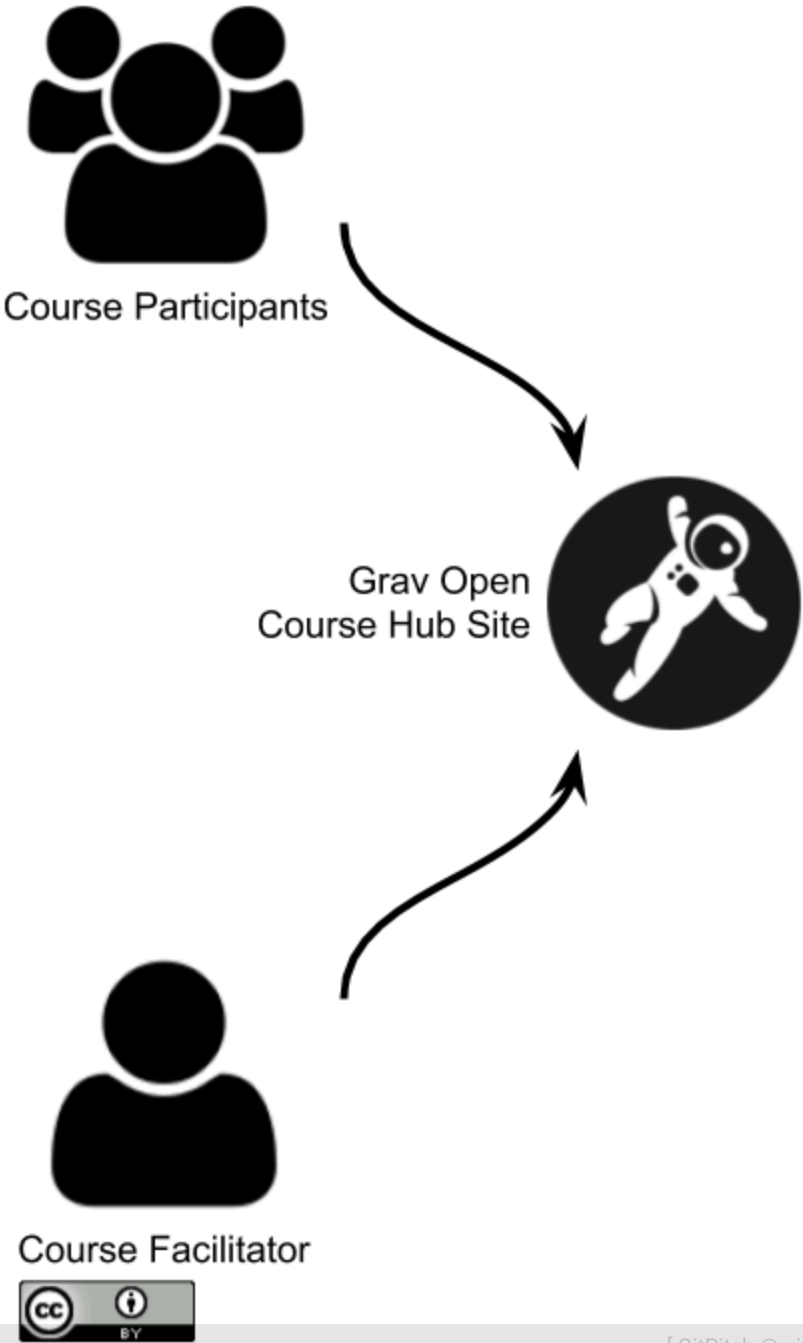


# What Skills are Required?

- Intended for “Tech-savvy” educators:
  - Code editor usage (e.g. Atom or Brackets)
  - Markdown or HTML basics
  - Understanding folder hierarchies (i.e. relative links)
  - Web server access
  - GitHub working knowledge (recommended)

# Grav Open Course Hub is Intended for Tech-savvy Educators who Value:

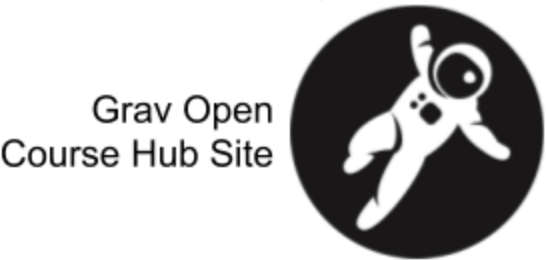
- Controllability
- Flexibility
- Portability
- Efficiency
- Openness
- Participation



Grav Open Course Hub, Web install with automatic 2-way Git Sync.



Course Participants



Grav Open Course Hub Site

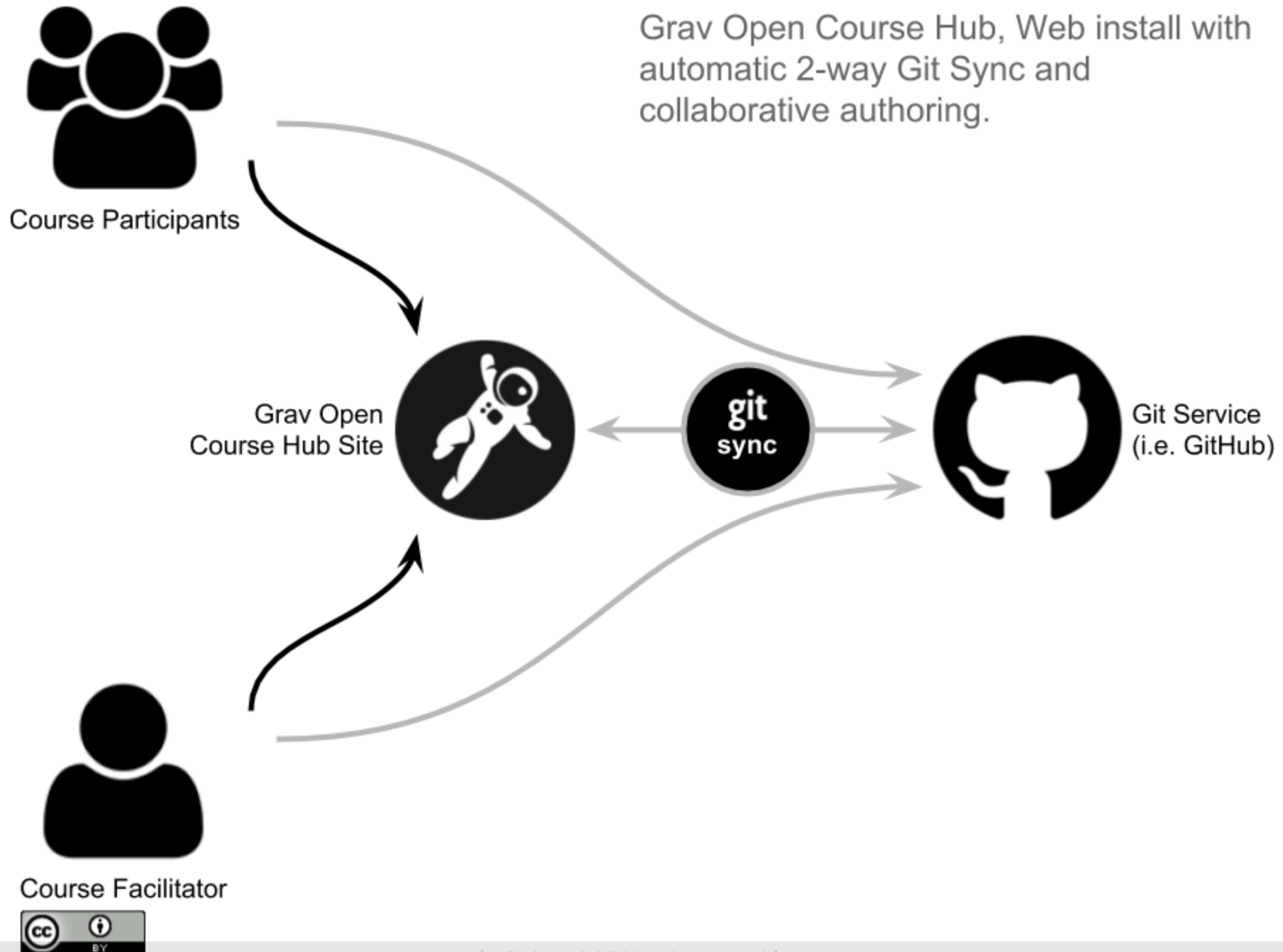


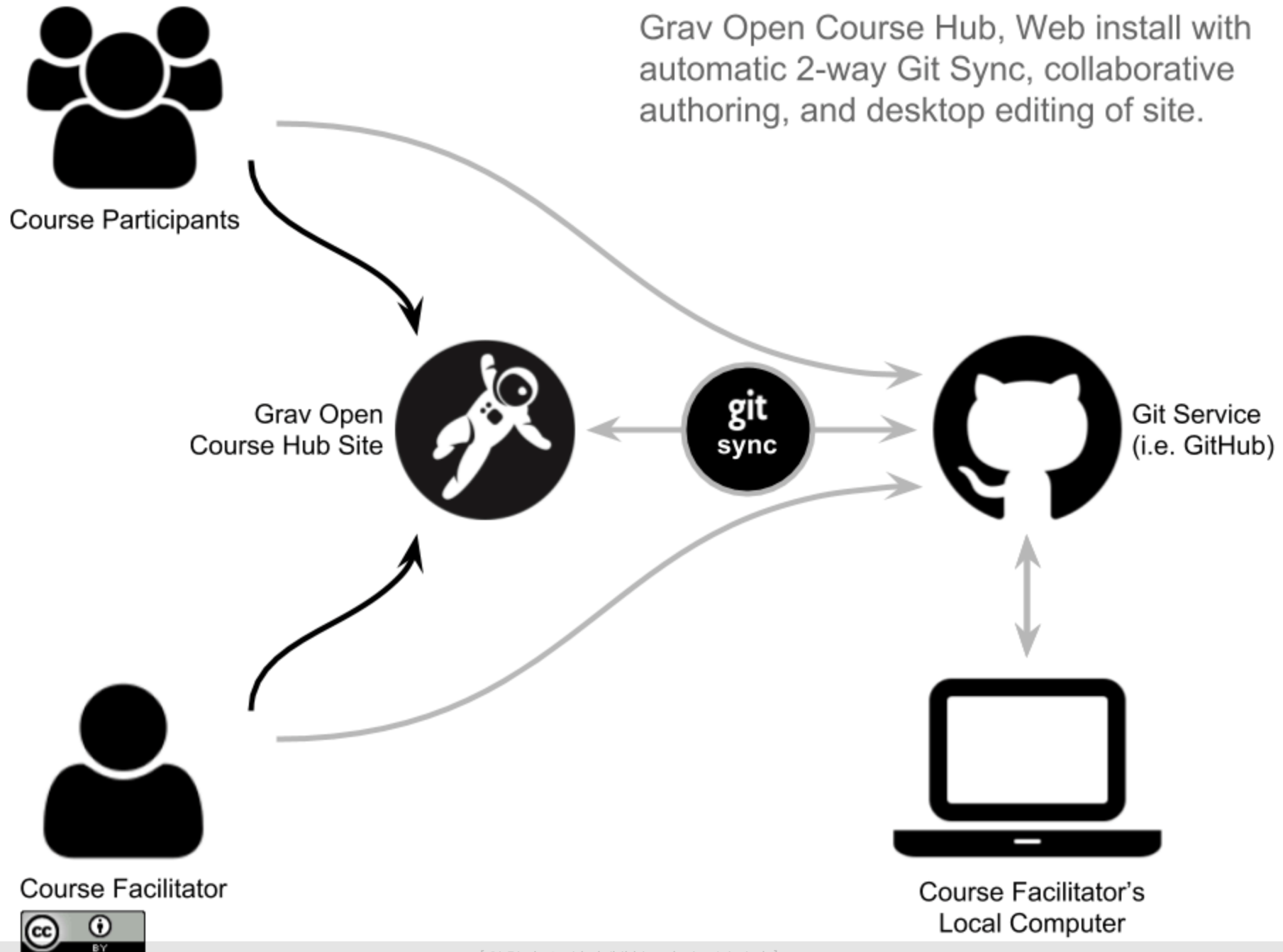
Git Service  
(i.e. GitHub)



Course Facilitator







# Problems the Course Hub Tackles



 **Want a User Quote?** 



*“The Open Course Hub was easy to set up and get running and my students loved having a one-stop place to go to for their course content. I really love that it syncs with GitHub so easily and seamlessly. I was able to have an open, collaborative, easily updatable, fully version-controlled site up and running in little time, with fairly modest technical skills. On the student side, it is all beautiful and easy to use on any device!”*

*— Mark Coster (Associate Professor at Griffith University, Australia)*

# Enough Talk, Demo Time!

[demo.hibbittsdesign.org/cmpt-363-173/](https://demo.hibbittsdesign.org/cmpt-363-173/)

## SFU CMPT-363 Open Course Hub, Fall 2017

# How about *Inside* the LMS?

[canvas.sfu.ca/courses/38847](https://canvas.sfu.ca/courses/38847)

## SFU CMPT-363 Canvas Course, Summer 2018

 **Time for a Student Quote!** 

*“The 363 Canvas course website does an excellent job of presenting only the current week’s relevant assignments and readings on the Home page. This makes using the site a breeze because no time is required to actually navigate the site – all the important stuff is there in one click!”*

*— SFU CMPT-363 Student, Using Canvas LMS  
partnered with Open Course Hub*

# How About Other Open-related Grav Projects?



# More Open-related Grav Projects

- Open Publishing Space
  - Share and collaboratively edit Markdown-based OER
- Learn2 with Git Sync
  - Share and collaboratively edit Markdown-based documentation
- H5P Shortcode
  - Display H5P.org and locally store H5P content
- Hypothesis Plugin
  - Display the Hypothesis sidebar on your Grav site

# Open Publishing Space



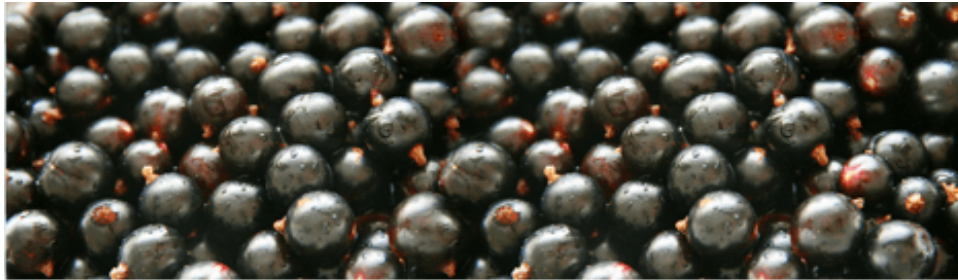


# Learn2 with Git Sync



# H5P Shortcode

```
[h5p id="712"]  
[h5p url="https://h5p.org/h5p/embed/712"]
```




What color does the blackcurrant berry actually have?

☐ Black

☐ Blue

☐ Very dark purple

☒ Check

[Download](#) [Rights of use](#) [Embed](#) 

# Hypothesis Plugin



# Next Steps



# Things to Explore Next

Grav CMS Official Site

[getgrav.org](https://getgrav.org)

Markdown

[Learn the basics of Markdown in ten minutes](#)

GitHub Workflow

[Introduction - Git and GitHub for Poets](#)

[GitHub Desktop App](#)

# ! Pop Quiz !

Which of these “tech-savvy” skills are the biggest challenge?

- Text editor usage (e.g. Atom or Brackets)
- Markdown or HTML basics
- Understanding folder hierarchies (i.e. relative links)
- Web server access
- GitHub or GitLab working knowledge
- GitHub Desktop App (not needed if using Atom)
- ...or something else that you’ve seen today?

# ★ Thank you. Q&A Time! ★

## Contact Info

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## Grav Open Course Hub

Docs: [learn.hibbittsdesign.org/coursehub](http://learn.hibbittsdesign.org/coursehub)

Canvas Demo:

[demo.hibbittsdesign.org/canvascoursehub](http://demo.hibbittsdesign.org/canvascoursehub)

Moodle Demo:

[demo.hibbittsdesign.org/moodlecousehub](http://demo.hibbittsdesign.org/moodlecousehub)