

Towards new G4 website

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Take-away for today

- 1) I know **how to contribute** to the website
- 2) I know **what needs to be done** and how to find it
- 3) **I will find and assign** tasks to myself (and work on it!)

New website: why?

- Update the content
- Clean up missing/wrong/outdated items (links, ...) and duplicated content
- Contain only necessary information
- Make it easy to navigate
- Modernize the look
- Ensure easier maintenance

New website: migration

Move from Drupal Content Management System (CMS) to website produced by a static-site generator.

Dynamic (MySQL DB), PHP



Static (No DB), content is stored in Markdown and YAML(JSON, CSV)



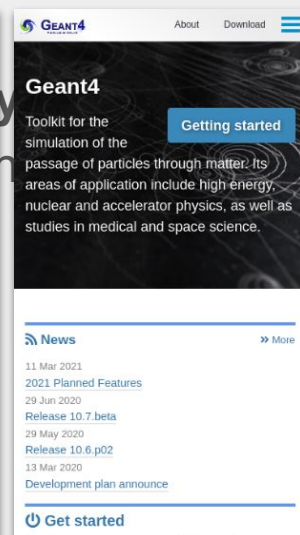
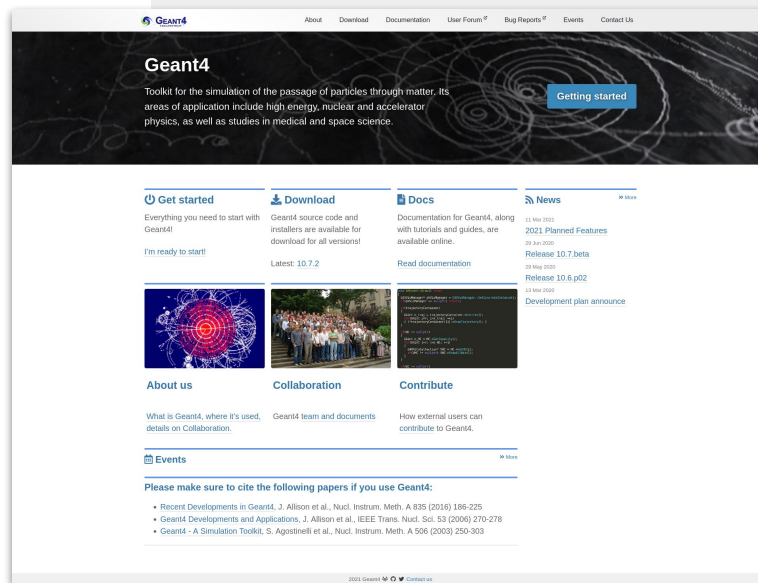
Website prototype

CI builds and deploys it **automatically** on every change made in **master** branch of gitlab repository

G4 GitLab

<https://geant4-dev.web.cern.ch>

<https://geant4-dev.web.cern.ch>



Simple, network efficient, mobile-friendly

New website: migration

Most important change for website users is how to work with the content



WYSIWYG*
in-browser editor



git-managed
Markdown

Website structure

Jekyll website structure and files (17M, 418 files) -

https://codimd.web.cern.ch/W0o08yi_SM6juwJw4g_BAQ?view

Drupal website structure and files (1.1G, 3392 files)-

https://codimd.web.cern.ch/n18hpyS1RjeVtfnI_fH-pA?view

Drupal web site dump will be put to G4 EOS.

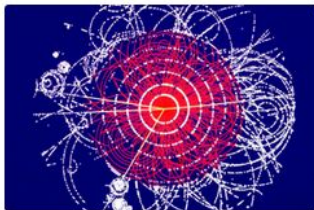
Clear and transparent structure

```
geant4-website_basic_menu/  
├── about  
│   ├── index.md  
│   └── publications.md  
├── collaboration  
│   ├── contacts.md  
│   ├── events.html  
│   ├── index.md  
│   ├── legal_documents.md  
│   ├── members.md  
│   ├── oversight_board  
│   ├── policies  
│   ├── steering_board  
│   └── technical_forum.md  
├── working_groups  
├── docs  
│   ├── getting-started.md  
│   └── index.md  
├── download  
│   ├── all.md  
│   ├── index.html  
│   └── license.md  
├── index.md  
├── news  
│   ├── index.md  
│   ├── _posts  
├── steering_minutes  
│   ├── index.md  
│   └── _posts
```

Get started

Everything you need to start with Geant4!

[I'm ready to start!](#)



About us

[What is Geant4, where it's used, details on Collaboration.](#)

Download

Geant4 source code and installers are available for download for all versions!

Latest: [10.7.2](#)



Collaboration

[Geant4 team and documents](#)

Docs

Documentation for Geant4, along with tutorials and guides, are available online.

[Read documentation](#)

```
void G4EventManager::Draw() const  
{  
    G4EventManager* pEventManager = G4EventManager::GetConcreteInstance();  
    if(pEventManager == nullptr) return;  
    if(!trajectoryContainer)  
    {  
        G4int n_traj = trajectoryContainer->nentries();  
        if(G4int i=0; i<n_traj; ++i)  
        { (*trajectoryContainer[i])>DrawTrajectory(); }  
    }  
    if(WC != nullptr)  
    {  
        G4int n_WC = WC->nGetCapacity();  
        if(G4int i=0; i<n_WC; ++i)  
        {  
            G4HitsCollection* WMC = WC->GetHC(i);  
            if(WMC != nullptr) WMC->DrawAllHits();  
        }  
    }  
}
```

Contribute

How external users can [contribute](#) to Geant4.

News

[» More](#)

11 Mar 2021

[2021 Planned Features](#)

29 Jun 2020

[Release 10.7.beta](#)

29 May 2020

[Release 10.6.p02](#)

13 Mar 2020

[Development plan announce](#)

Events

[» More](#)

Typical case: page contains Markdown only

URL: <https://geant4-dev.web.cern.ch/docs/getting-started>

Source: <https://gitlab.cern.ch/geant4/geant4-website/-/raw/master/docs/getting-started.md>

```
---
toc: true
toc_sticky: true
---
# Getting started with Geant4

Geant4 is an open-source toolkit that enables to simulate particle passage through matter.
It is written in C++ and offers a wide range of tools for users to employ in their applications.
More information on the overview of the package can be found in the [Introduction to Geant4](http://cern.ch/geant4-
c/UsersGuides/IntroductionToGeant4/html/index.html).

## Where can I find information on Geant4?

Geant4 is documented in several [**user guides**](index.html) that cover the installation, use of, and
design/implementation of the toolkit.

Numerous **example applications** are distributed with each Geant4 release (under 'examples/'), offering a demonstr
of Geant4 capabilities across a broad range of use cases. Beginner users are invited to consult them and use as a base for their applications.
More information on the examples can be found in the [Application Developers Guide](http://geant4-userdoc.web.cern.ch/geant4-userdoc/UsersGuides/ForApplicationDeveloper/html/Examples/examples.html).

Geant4 **tutorials** are often held in various parts of the world. Consult [events calendar](/collaboration/events)
arch for incoming events, but also to have a look at past editions, which contain the educational material.

{ : .notice .notice--warning }
Do we want to link to most recent tutorials, e.g. G4 beginners tutorial?

## How do I install Geant4?
```

[Home](#) > [Documentation](#) > Getting started with Geant4

Getting started with Geant4

Geant4 is an open-source toolkit that enables to simulate particle passage through matter. It is written in C++ and offers a wide range of tools for users to employ in their applications. More information on the overview of the package can be found in the [Introduction to Geant4](#).

Where can I find information on Geant4?

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Do we want to link to most recent tutorials, e.g. G4 beginners tutorial?

How do I install Geant4?

On this page

Where can I find information on Geant4?

How do I install Geant4?

How do I write an application using Geant4?

Frequently Asked Questions

Where can I get further help?

TOC is generated from Markdown headers

[Markdown tutorial for beginners](#)

Special cases.

Pages are using data from “data” files (YAML files).

```
data/
├── binary.txt
├── events.yml
├── experiments.yml
├── g4.yml
├── institutes.yml
├── members.yml
├── navigation.yml
├── releases.json
├── wg
│   ├── wg.AdvExam.yml
│   ├── wg.DocMan.yml
│   ├── wg.EM.yml
│   ├── wg.Geometry.yml
│   ├── wg.Had.yml
│   ├── wg.Interfaces.yml
│   ├── wg.NovExExam.yml
│   ├── wg.Particles.yml
│   ├── wg.Persistency.yml
│   ├── wg.PL.yml
│   ├── wg.Processes.yml
│   ├── wg.Run.yml
│   ├── wg.SoftMan.yml
│   ├── wg.STT.yml
│   ├── wg.Tracking.yml
│   └── wg.Vis.yml
```

- binary.txt - info about binary builds
- events.yml - info about G4 related events
- members.yml, experiments.yml - info about G4 members
- releases.yml - info about G4 releases in GitLab
- wg contains list of WG members and WG mandate for each WG

“db” of Geant4 members and institutions - YAML file

data/members.yml

```
p.Zaborowska:  
  email_address: anna.zaborowska@cern.ch  
  experiments: []  
  firstname: Anna  
  institute:  
  - i.cern  
  middlename: ''  
  notes: N/A  
  surname: Zaborowska
```

- All board pages
 - WG membership lists
 - collaboration members page
- are generated from the YAML files

data/institutions.yml

```
i.barc:  
  name: Bhabha Atomic Research Centre (BARC)  
i.cea:  
  name: CEA  
i.cern:  
  name: CERN  
i.ciemat:  
  name: CIEMAT  
i.cnrs_inserm:  
  name: CNRS/INSERM, Toulouse  
i.cnrs_paris:  
  name: CNRS, Paris  
i.com_swhard:  
  name: SWHARD S.R.L., Genova, Italy  
i.com_varian:  
  name: Varian Medical Systems, Palo Alto, USA  
i.esa:  
  name: ESA  
i.ess:  
  name: European Spallation Source ERIC  
i.famaf:  
  name: FaMAF
```

“Working Group” description

_data/wg/wg.Had.yml

```
members:
  p.Afanaciev: []
  p.Arce Dubois: []
  p.Banerjee: []
  p.Beck: []
  p.Cai: []
  p.Cano Ott: []
  p.Cuttone: []
  p.David: []
  p.Desorgher:
    - /source/processes/hadronic/models/radioactive_decay
  p.Folger:
    - /source/processes/hadronic/models/binary_cascade
    - /source/processes/hadronic/models/im_r_matrix
  .....
categories:
  - /source/processes/hadronic
coordinators:
  - p.Ribon
deputies:
  - p.Wright
email: geant4-hadronics@cern.ch
name: Hadronic Physics
purpose: >-
  The hadronic physics working group develops and maintains the processes,
  models and cross sections required for hadronic interactions in Geant4.
  The physics scope of the group includes purely hadronic interactions,
  radioactive decay, and gamma-nuclear and lepto-nuclear interactions.
```

It is easy to handle working group members and their areas of responsibility.

Key words to be taken from members.yml.

Standard Working Group Page's layout

[Home](#) > [Collaboration](#) > [Working groups](#) > [Hadronic Physics](#)

Hadronic Physics

Purpose

The hadronic physics working group develops and maintains the processes, models and cross sections required for hadronic interactions in Geant4. The physics scope of the group includes purely hadronic interactions, radioactive decay, and gamma-nuclear and lepto-nuclear interactions.

Members

Group e-mail: geant4-hadronics@cern.ch

Show responsibility

- ✉ Alberto Ribon(**coordinator**)
- ✉ Dennis Wright(**deputy**)
- ✉ Andrei Afanaciev
- ✉ Pedro Arce Dubois
- ✉ Douglas Wright
- ✉ Julia Yarba

Responsible categories

- [/source/processes/hadronic](#)

generated from WG YAML file

Current Development

Working plan

[2021](#) [2020](#) [2019](#) [2018](#) [2017](#) [2016](#) [2014](#) [2013](#) [2012](#) [2011](#) [2010](#) [2009](#) [2008](#) [2007](#) [2006](#)

On this page

- [Purpose](#)
- [Members](#)
- [Responsible categories](#)
- [Current Development](#)
- [Working plan](#)

```
-bash-4.2$ cat index.md
---
toc: true
toc_sticky: true
wg: wg.Had
title: Hadronic Physics
---
```

```
{% include wg.md %}
```

Liquid Template

```
## Current Development
```

```
## Working plan
```

```
[2021](/assets/hadronic/workplan21.pdf)
[2020](/assets/hadronic/workplan20.pdf)
[2019](/assets/hadronic/workplan19.pdf)
[2018](/assets/hadronic/workplan18.pdf)
[2017](/assets/hadronic/workplan17.pdf)
[2016](/assets/hadronic/workplan16.pdf)
[2014](/assets/hadronic/workplan14.pdf)
[2013](/assets/hadronic/workplan13.pdf)
[2012](/assets/hadronic/workplan12.pdf)
[2011](/assets/hadronic/workplan11b.pdf)
[2010](/assets/hadronic/workplan10a.ppt)
[2009](/assets/hadronic/workplan09.ppt)
[2008](/assets/hadronic/workplan08.ppt)
[2007](/assets/hadronic/workplan07a.txt)
[2006](/assets/hadronic/workplan06.txt)
```

Geant4 Events: YAML file with events

```
- enddate: 23.11.2021
  place: CERN
  startdate: 22.11.2021
  title: 5th LPCC Detector Simulation Workshop
  url: https://indico.cern.ch/event/1087522/
  virtual: true
- enddate: 08.10.2021
  place: CERN
  startdate: 04.10.2021
  title: Geant4 Advanced Course
  url: https://indico.cern.ch/e/geant4_advanced_course_2021
  virtual: true
- enddate: 24.09.2021
  place: CERN
  startdate: 20.09.2021
  title: 26th Geant4 Collaboration Meeting
  url: https://indico.cern.ch/event/1052654/
  virtual: true
```



The screenshot shows the Geant4 website layout. At the top, there are three columns: 'About us' with a particle detector image, 'Collaboration' with a group photo, and 'Contribute' with a code snippet. Below these is an 'Events' section with a calendar icon, showing a list of events. One event is highlighted: '22/11/2021 - 23/11/2021 Virtual 5th LPCC Detector Simulation Workshop, CERN'. Below the events list, there is a section titled 'Please make sure to cite the following papers if you use Geant4:' followed by three bullet points listing relevant publications.

About us

What is Geant4, where it's used, details on Collaboration.

Collaboration

Geant4 team and documents

Contribute

How external users can contribute to Geant4.

Events

22/11/2021 - 23/11/2021 Virtual 5th LPCC Detector Simulation Workshop, CERN

Please make sure to cite the following papers if you use Geant4:

- Recent Developments in Geant4, J. Allison et al., Nucl. Instrum. Meth. A 835 (2016) 186-225
- Geant4 Developments and Applications, J. Allison et al., IEEE Trans. Nucl. Sci. 53 (2006) 270-278
- Geant4 - A Simulation Toolkit, S. Agostinelli et al., Nucl. Instrum. Meth. A 506 (2003) 250-303

To add new event just modify, filling necessary information

https://gitlab.cern.ch/geant4/geant4-website/-/blob/master/_data/events.yml

Jekyll installation

Just follow official [Installation](#) instructions

You will need **ruby**, **gem**, **gcc** and **make**. Install them via package manager.

Jekyll is available for most linux systems: MacOS and Windows

```
$ export GEM_HOME=$(ruby -e 'puts Gem.user_dir')
$ export PATH=${GEM_HOME}/bin:$PATH
$ git clone ssh://git@gitlab.cern.ch:7999/geant4/geant4-website.git
$ cd geant4-website
$ bundle install
$ bundle exec jekyll serve --livereload
```

```
Annas-MacBook-Air:geant4-website anna$ bundle exec jekyll serve --livereload
Configuration file: /Users/anna/Workspace/geant4-website/_config.yml
   Source: /Users/anna/Workspace/geant4-website
  Destination: /Users/anna/Workspace/geant4-website/_site
Incremental build: disabled. Enable with --incremental
Generating...
Jekyll Feed: Generating feed for posts
               done in 16.275 seconds.
Auto-regeneration: enabled for '/Users/anna/Workspace/geant4-website'
LiveReload address: http://127.0.0.1:35729
Server address: http://127.0.0.1:4000/
Server running... press ctrl-c to stop.
```

Excellent! You are ready to improve Geant4 website!

How to manage content?

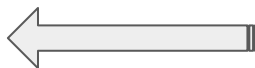
via local copy

```
greg@work-51a:~/geant4-website$ vim index.md
greg@work-51a:~/geant4-website$ vim collaboration/working_groups/
advExamples/      genericProcesses/  index.md      persistency/      software/         testingQA/        vis/
documentation/    geometryTransport/ novextExamples/ physicsList/       task_force_rd/    tracking/
electromagnetic/  hadronic/           particleTrack/ runEvent/          task_force_web/   ui/
greg@work-51a:~/geant4-website$ vim collaboration/working_groups/hadronic/index.md
greg@work-51a:~/geant4-website$ head collaboration/working_groups/hadronic/index.md
---
toc: true
toc_sticky: true
wg: wg.Had
title: Hadronic Physics
---

{% include wg.md %}
```

Usual git workflow:

1. git checkout -b my-awesome-changes
2. make changes
3. check changes
4. git add/commit
5. git push
6. Create merge request (git will ask you)



1. Install Jekyll (more on next slides)
2. bundle install
=====
3. bundle exec jekyll serve --livereload
4. view an entire website in browser locally

What is to be done?

[Gitlab issues](#), please discuss there (after this meeting)

Anyone can contribute!

[First milestone](#): **Feb 2022** (contains prioritised issues)

WG coordinators are invited to check their webpages and add 2021/2022 work plans:

- + [website](#) (check what is there now)
- + [gitlab repository](#) (open and edit your WG information)
- + [gitlab WG issue](#) (assign to yourself and use your WG issue to report status)

Gitlab issues

Labels indicate what sort of work
is required

Prioritized Labels

Missing

Outdated Info

Other Labels

Discussion

Doing

Enhancement

Migration

Technical

To Do

User's Opinion

WG

Text to write, ...

Update link, picture, ...

To discuss! Probably not much other
work required

Work has started

Does not exist, additional features

Concerns old website

Technical issues

Marked as to be done

Opinions

Concerns WG webpages

Gitlab milestone

Minimal production website
Aiming at: **end Feb 2022**

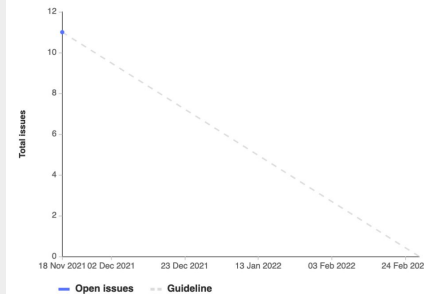
List of issues is probably incomplete, if you identify a missing feature, open an issue and try to assign it to a responsible person (e.g. you! :))

Minimal production website

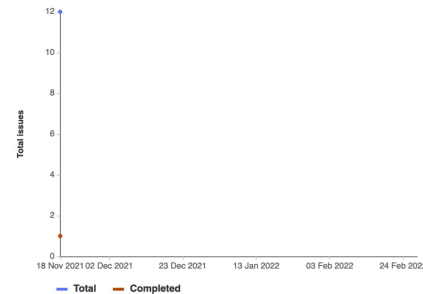
We would like to create a minimal working website by end of February 2022. That means a website that contains everything that is needed for a standard Geant4 user and collaborator. That does not mean our webpage is complete, neither that we can delete the old one. It means we can review and publish it.

Filter by **Issues** **Issue weight**

Burndown chart



Burnup chart



Issues 12 Merge requests 0 Participants 5 Labels 8

Unstarted Issues (open and unassigned) 8

- Missing page on external contributions
#28 Enhancement Missing To Do
- Missing Page for new collaboration members with most important info
#27 Enhancement Missing To Do
- Missing intro to download, why patches
#26 Missing To Do
- Rewrite Getting Started
#25 Missing To Do
- General introduction to Geant4
#24 Missing
- "Users's requirements" page
#23 Enhancement Missing
- "User applications" page
#22 Enhancement Missing Outdated Info
- Missing descriptions/aims of Steering, Oversight Boards, Technical Forum
#21 Missing

Ongoing Issues (open and assigned) 3

- G4 Validation page/info
#20 Enhancement Migration Missing
- Publications to cite
#18 Discussion
- Help setup the how-to documentation and assist where needed in the common effort
#7 Doing Technical

Completed Issues (closed) 1

- Missing or out-dated: need of new content
#12 To Do

Assigned does not mean no other help is needed. Have a look!

Not assigned!

General introduction to Geant4

- ☐ What is Geant4 good for and what it is not!
- ☐ [General introduction to Geant4](#) should get updated

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/24>

Rewrite Getting Started

[Getting started \(for G4 users\)](#) is rewritten, but certainly can be improved on - it's one of the most important pages on the website

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/25>

Enhancement

Missing

Outdated Info

"User applications" page



User applications (<https://geant4.web.cern.ch/applications>) is terribly out-dated with many invalid links, covering applications (e.g. GRAS, GATE, TOPAS, GAMOS) and potentially also other codes which might be more suitable to certain applications (ANSYS (i.e. CFD/FE) or MCNPX (reactor simulation))

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/22>

Enhancement

Missing

"Users's requirements" page



<https://geant4.web.cern.ch/sites/geant4.web.cern.ch/files/geant4/OOAandD/URD.pdf> is our last "User requirements" document, JIRA is not mentioned next to it as a replacement tool.

In general, it is not clear what users requirements are. What are requirements, time scales, progress?

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/23>



Missing descriptions/aims of Steering, Oversight Boards, Technical Forum

- ☐ Missing description of the [Steering Board](#), its role, frequency of meetings, etc.
- ☐ Missing description of the [Oversight Board](#), its role, frequency of meetings, etc. Minutes are very old, aren't there any recent public minutes?
- ☐ Missing description of the [Technical Forum](#), its role, frequency of meetings, etc.

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/21>

Missing

Missing intro to download, why patches



In download section - Missing short introduction to why the latest G4 version is recommended, and what are patches. Patches should also be on top.

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/26>

G4 Validation page/info

- ☐ [Validation page](https://geant4.web.cern.ch/publications_validations/testing_and_validation) certainly calls for an update (https://geant4.web.cern.ch/publications_validations/testing_and_validation).
 - ☐ It is not clear geant-val is the main validation portal, also duplicated links to geant-val
 - ☐ G4-Med should be mentioned not on equal footing, but as a demonstration of geant-val application
 - ☐ "EM validation" links to EM WG instead of mentioning e.g. which tests on geant-val are relevant
 - ☐ hadronic validation broken link to <http://g4validation.fnal.gov:8080/G4HadronicValidation/>
 - ☐ The Geant4 testing system <https://sites.google.com/site/sttshifternaive/intro> should be inside Collaborators-only/mainly page, not here within physics validation (especially since it covers testing, not validation)
 - ☒ HEP experiments related notes documents and notes (in collaboration with LCG Physics Validation Project) - non-existing links <http://ph-dep-sft.web.cern.ch/project/physics-validation>
 - ☐ Fixed link from above (<https://ep-dep-sft.web.cern.ch/project/physics-validation>) is listing similar links we list here (geantval etc). Do we need it here? It brings list of publications from LHC experiments, but it's 10 y old! The only new event is LPCC workshop, maybe just put a link to LPCC indico? (With a proper description what that event is)
 - ☐ <https://twiki.cern.ch/twiki/bin/view/Geant4/PhysicsValidationTaskForce> does this TF exist?

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/20>

Enhancement

Missing

Missing Page for new collaboration members with most important info



Missing 'Collaboration Newcomers' page with descriptions relevant to all Collaboration members and especially important for newcomers - what are WGs, which ones are relevant for which area of work, mention other workflows, rules, regulations, rules on presentations and papers - "common knowledge" which is often missed by newcomers. Also put links important for collaborators and not users (e.g. shifter calendar)

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/27>

Enhancement

Missing

Missing page on external contributions



Missing '[Contributing](#)' page where non-collaborators can learn what can they do to improve/help Geant4 as external users

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/28>

Publications to cite



Started in [#11 \(closed\)](#).

Is there a recommendation for Geant4 citation? All 3 main papers? The oldest/newest?

[@bmorgan](#): From discussion on 19th January, suggested that we recommend citing all three papers ([@mverderi](#), could you confirm)

<https://gitlab.cern.ch/geant4/geant4-website/-/issues/18>

Take-away for today

- 1) I know how to contribute to the website ([locally or directly editing markdown](#))
- 2) I know what needs to be done and how to find it ([milestone](#), [issues](#))
- 3) I will find and assign tasks to myself

We need to work as Collaboration to succeed!

Problems? Ideas?

- [Open issue](#) if it's website related
- Mail us (geant4-wtf-members@cern.ch) if you need help
- Join Website Task Force meetings ([join e-group for announcements](#))

Backup slides

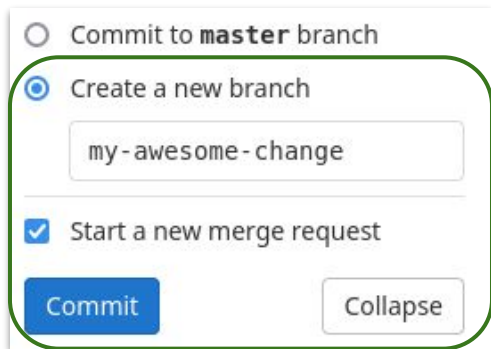
How to manage content?

via **browser**



```
docs/index.md
geant4-userdoc/UsersGuides/InstallationGuide/epub/Geant4InstallationGuide.
epub) - [kindle](http://cern.ch/geant4-userdoc/UsersGuides/InstallationGuide/
epub/Geant4InstallationGuide.mobi)
17
18
19 We strongly recommend installing the Geant4 toolkit under your
20 computing environment before starting to read the following user's
```

Discard changes



☐ Commit to **master** branch

☒ Create a new branch

my-awesome-change

☒ Start a new merge request

Commit Collapse

Commit to a separate branch and create a merge request at one time

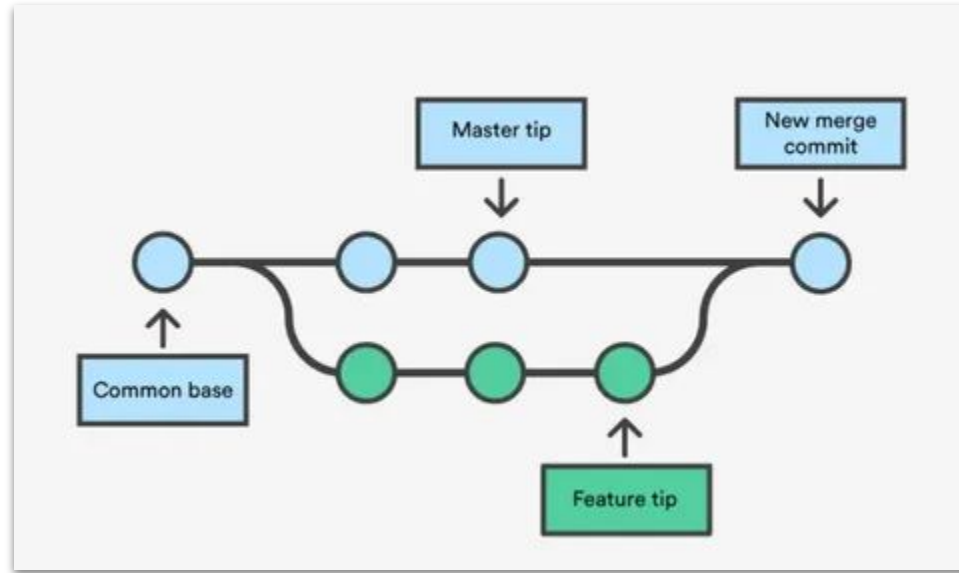
Markdown syntax

Element	Markdown Syntax
Heading	# H1 ## H2 ### H3
Bold	**bold text**
Italic	<i>*italicized text*</i>
Blockquote	> blockquote
Ordered List	1. First item 2. Second item 3. Third item
Unordered List	- First item - Second item - Third item
Code	`code`
Horizontal Rule	---
Link	[title](https://www.example.com)
Image	![alt text](image.jpg)

Element	Markdown Syntax
Table	Syntax Description ----- ----- Header Title Paragraph Text
Fenced Code Block	```` { "firstName": "John", "lastName": "Smith", "age": 25 } ````
Footnote	Here's a sentence with a footnote. [¹] [¹]: This is the footnote.
Heading ID	### My Great Heading {#custom-id}
Definition List	term : definition
Strikethrough	~~The world is flat.~~
Task List	- [x] Write the press release - [] Update the website - [] Contact the media

Try it on <https://dillinger.io>

How to manage content?



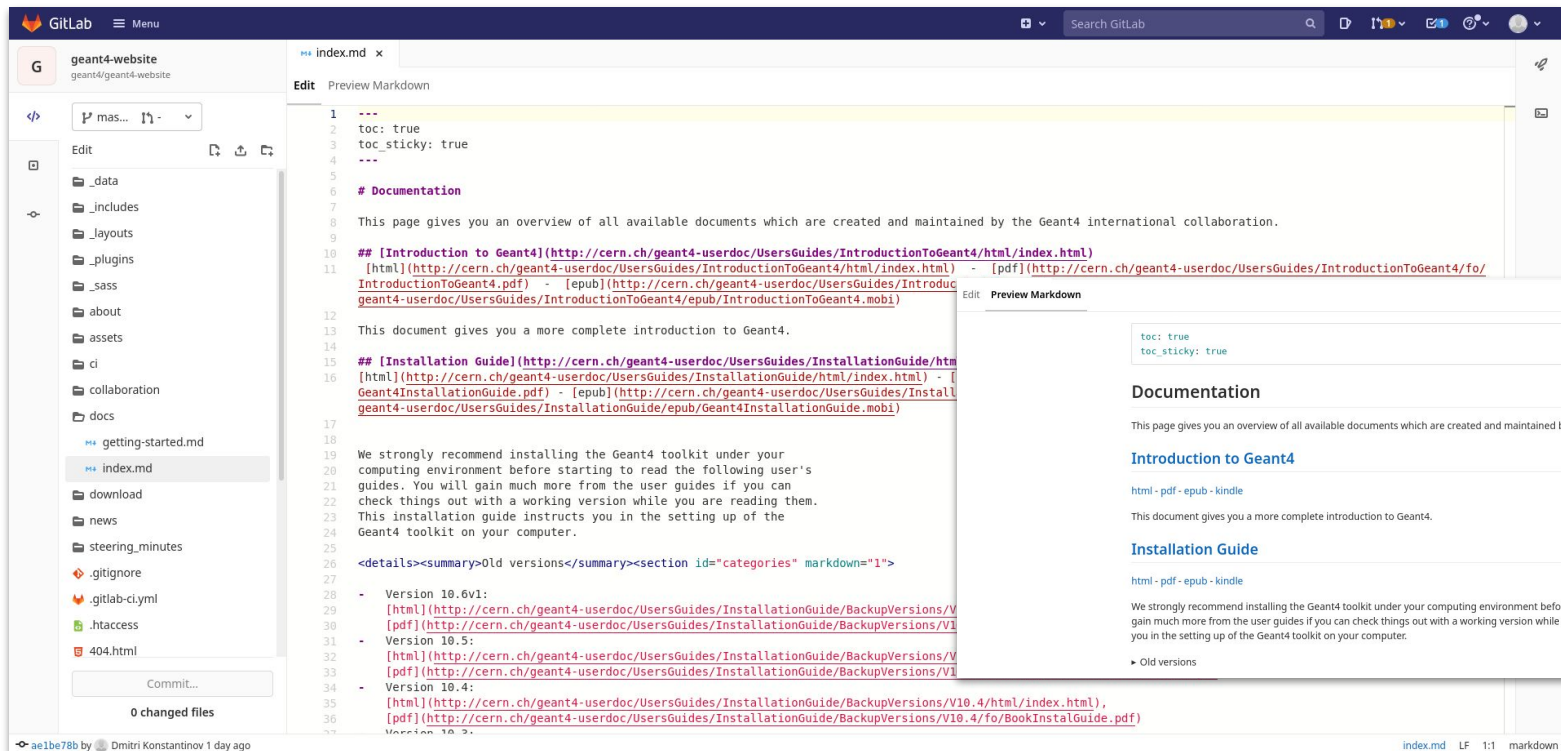
Commits in **master** are allowed only by **merge requests** (MR).

Direct push in master is not allowed

Changes in WG pages have to be approved by WG coordinator/deputy on directory basis.

How to manage content?

via browser



Web IDE

Website structure

```
.
├── about
├── collaboration
│   ├── oversight_board
│   ├── policies
│   ├── steering_board
│   └── working_groups
│       └── <working group pages>
├── data
│   └── wg
├── docs
├── download
├── news
│   └── _posts
└── steering_minutes
    └── _posts
```

Markdown pages

YAML database

News

Website's directories are directly mapped to URLs