


# Update on the Website Task Force

- Outline of progress from the WTF
- New web-site current status
- Discussion/Next steps

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# Geant4

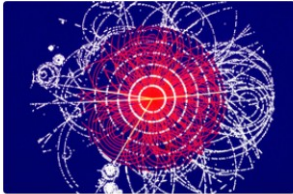
Toolkit for the simulation of the passage of particles through matter. Its areas of application include high energy, nuclear and accelerator physics, as well as studies in medical and space science.

[Getting started](#)

## 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: [11.0.3](#)



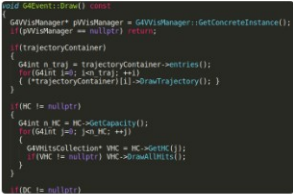
### Collaboration

Geant4 [team and documents](#)

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[Read documentation](#)



### Contribute

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

## News

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16 Sep 2022  
[Release 11.0.3](#)

09 Sep 2022  
[Release 10.7.p04](#)

01 Jul 2022  
[Release 11.1.beta](#)

25 May 2022  
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23 Mar 2022  
[2022 Planned Features](#)

This talk is very much my personal view-point and summary of the WTF and something I would like to promote the discussion between all of us.

# Website Task Force Mandate

- Draft Mandate from the original first WTF meeting:
  - Revise Geant4 web site
    - more fluent navigation for users
    - frequently needed information brought frontward (download code, validation, papers,...)
    - verify availability of links
  - Modernize its look and style
    - Update front page (recent pictures ...)
  - Ensure long term maintenance
    - Consider moving away from Drupal technology

# Some History...

- 6 years ago we had an open discussion about the documentation during the power cut (and internet outage 😊) in Ferrara.
- As a result we decided on completely revising the documentation framework from docbooks to sphinx
  - Sphinx is a standalone tool using Restructured Text (ReST) as it's base format.
  - Feature plugins (e.g. bibtex) and style themes can be added and customised.
- The decision making process seemed easier than the web-site:
  - things could only be improved from the aesthetics, ease of contribution and maintenance/deployment point-of-view
- The documentation
  - looks better,
  - is multi-formatted,
  - can handle different screen sizes (media) and
  - is **much** easier to maintain.

# Some History...

- 2 years ago Grigorii, Dmitri and Anna embarked on redesigning and revising our web-pages with the goal of improving greatly the user facing pages and giving us all an opportunity to update and prune the content.
- In addition drupal maintenance is heavy and likely to get heavier (with drupal versions changing) and lack of support effort at CERN.
- They chose Jekyll for a prototype on the basis that it is
  - widely used at CERN (e.g. ROOT) and
  - offers flexibility for static website creation.
- There are not many free/open alternatives:
  - hugo (written in Go) is probably the only other viable option
- Static website tools tend to be orientated towards blog production, which do not always fit into the more static and structured nature of our web-pages.
- The initial effort has created a very nice modern and clean looking web space
  - with some pruning of the content from the existing pages
- **Many many thanks to Anna, Dmitri and Grigorii!!**



# Current Status

- 18 months ago the Steering Board created the Website Task Force (WTF)
- We have held about 30 meetings to discuss the content and try to resolve core issues like
  - the auto-generation of the download page for releases,
  - data file buttons and
  - structuring of working group members according (or not) to collaboration membership.
- The process has not been the most efficient, and there are a couple of key points which need to be addressed in the broader context of our collaboration before we can switch completely the web-site to the new format
- The website is very nearly complete in terms of content and functionality.

# Points for Discussion:

- 1) One of the reasons the last stage has taken us so long (>18 months) is partially due to a lack of effort from within us...
- 2) How do we handle long term maintenance and sustainability?
- 3) How do we make decisions and update very public (front page) content.
  - In the past this was simply "done"....
  - But in trying to improve the images and content we have not found it so easy to gather, refine and publish.
- 4) Is Jekyll the best tool? [hugo vs. jekyll](#)
  - It has many strengths (open framework and flexibility, widespread usage even at CERN),
  - But it also has some drawbacks - directory structure, multiple packages and plugins to synchronise/rely on their long-term availability.
  - Conversely Hugo is closer to sphinx in being a single self-contained package, which could make usage and deployment simpler.
  - Do we need to be media adaptable? - how many people look at Geant4 pages on their phone and then download code, manuals etc
  - Compile time - maybe not significant, but for formatting and modifications jekyll is sloooooow
- 5) Should there be a better connection between the web-page and documentation?
  - It was suggested I chair the WTF since it is closely related to documentation and made reporting to the SB simpler.
  - Of course this isn't necessary/mandatory....



# Where do we go from here?

There is some "tension/attachment" between what we have now, what we propose and what looks best.

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

# Variable font sizes and “media” issues – i.e. scalability according to available display

The screenshot shows the Geant4 website with a dark header and a main content area. The header includes the Geant4 logo and navigation links: About, Download, Documentation, User Forum, Bug Reports, Events, and Contact Us. The main content area features a large hero section with the Geant4 logo and a description of the toolkit, followed by a 'Getting started' button. Below this are four columns of content: 'Get started' with a link to 'I'm ready to start!', 'Download' with a link to 'Latest: 11.0.3', 'Docs' with a link to 'Read documentation', and 'News' with a list of releases and a link to '2022 Planned Features'. At the bottom, there are three columns: 'About us' with a link to 'What is Geant4, where it's used, details on Collaboration.', 'Collaboration' with a link to 'Geant4 team and documents', and 'Contribute' with a link to 'How external users can contribute to Geant4.'.

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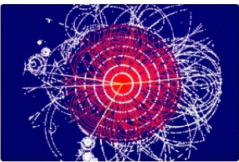

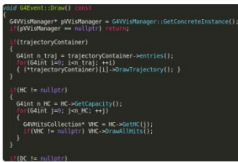
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### Events




» More

10/24/2022	-	10/26/2022	4th Geant4 International User Conference at the Physics-Medicine-Biology Frontier, Napoli, Italy
10/10/2022	-	10/14/2022	Virtual Geant4 Advanced Course @ CERN, CERN, Geneva (Switzerland)
9/26/2022	-	9/30/2022	24th Geant4 Collaboration Meeting, IRISA Laboratory, Rennes (France)


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**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

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← → 🔒 geant4-dev.web.cern.ch/collaboration/working\_groups/


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

## Working groups

The Geant4 Collaboration is organized in the following 15 Working Groups, according to the main area of responsibility and reflecting, approximately, the categories - *i.e.* sub-domains and activities - identified in our project:

On this page

[Task Forces](#)

- [Advanced Examples](#)
- [Documentation Management](#)
- [Electromagnetic Physics Processes](#)
- [Geometry and Transport](#)
- [Hadronic Physics Processes](#)
- [Generic Processes and Materials](#)
- [Novice and Extended Examples](#)
- [Particles and Tracking](#)
- [Persistence](#)
- [Physics Lists and Validation Tools](#)
- [Run, Event and Detector Responses](#)
- [Software Management](#)
- [Testing and Quality Assurance](#)
- [User and Category Interfaces](#)
- [Visualisation](#)

The Geant4 members contribute to one or more of these Working Groups, according to their expertise and interest.

At the beginning of each year, a census is carried out in each Working Group to know the contribution of each member in the previous year, and the pledged one for the current year, as well as the proposed plan of work for the year. The latter is then used to prepare the overall Geant4 plan of work of the year, which is presented and discussed with users in a dedicated Geant4 Technical Forum, usually held in the first quarter. The information on the committed effort of each Working Group - as the sum of each member contribution, taken as provided, with neither a minimum threshold, nor an auditing mechanism - is used to decide the number of representatives of each Working Group in the Geant4 Steering Board.

The coordinator and deputy coordinator (and eventual other representatives at the Steering Board) of each Working Group are elected every two years, with one vote for each Geant4 collaborator and member of a Working Group. The

# Some effort to change things (fonts in breadcrumbs, headers, dates of posts)

The screenshot shows the Geant4 website homepage. At the top is a navigation bar with links: About, Download, Documentation, User Forum, Bug Reports, Events, and Contact Us. The main header features the Geant4 logo and a large 'Getting started' button. Below the header is a descriptive paragraph about the toolkit. The content area is divided into several sections: 'Get started' with a link to 'I'm ready to start!'; 'Download' with the latest version '11.0.2'; 'Docs' with a link to 'Read documentation'; 'News' with a list of releases including 'Release 11.1.beta' and 'Release 11.0.2'; 'About us' with a link to 'What is Geant4, where it's used, details on Collaboration.'; 'Collaboration' with a link to 'Geant4 team and documents'; and 'Contribute' with a link to 'How external users can contribute to Geant4.' The website uses a clean, modern design with a dark blue and white color scheme.

← → ↻ ⓘ 127.0.0.1:4000

GEANT4

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Getting started

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08 Mar 2022  
[Release 11.0.1](#)  
12 Dec 2021  
[Release 11.0](#)

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# Custom formatting is not easy...

Cheatsheet for custom formatting of the website:

```
https://www.w3schools.com/css/css_positioning.asp
page_hero.html to set the button position:
<div class="{(page.header.button.class)}" style="position: relative; left:80px; top:-70px" href="{( page.header.button.url | relative_url)}">{(page.header.button.title)}</div>
{% if page.tagline %}
<p class="page_lead">{( page.tagline | markdownify | remove: "<p>" | remove: "</p>" )}</p>
{% elsif page.header.show_overlay_excerpt != false and page.excerpt %}
<p class="page_lead" style="position: relative; top:-70px">{( page.excerpt | markdownify | remove: "<p>" | remove: "</p>" )}</p>
```

Search:  
<https://blog.webjeda.com/Instant-jekyll-search/>

Change size of dates etc... for news:

```
python.scss:
.metadata {
  color: gray;
  font-size: 0.9em;
}
```

Events font size: (first is date, second is text):

```
positions.scss:
#evttable > tr > td {
  text-align: center;
  font-size: 1em;
}
#evttable > tr > td:last-child {
  text-align: left;
  font-size: 1em;
}
```

```
python.scss:
Breadcrumbs (i.e. top navigation bar):
.breadcrumbs ol {
```

```
  float: left;
  font-size: 0.9em;
}
```

Main header and sub-header font size:

```
h1 {
  font-family: SourceSansProBold,Arial,sans-serif;
  line-height: 1em;
  color: $header-color;
  text-decoration: none;
  font-size: 1.4em;
}
```

```
h2 {
  color: $subheader-color;
  line-height: 1em;
  font-size: 1.2em;
}
```

Frontpage image:

\_sass/main.scss

```
.page_hero-overlay {
  background-image: linear-gradient(90deg, rgba(0, 0, 0, 0.7) 60%, rgba(0, 0, 0, 0)); url('../g4logo-web.png') !important;
  background-image: linear-gradient(90deg, rgba(0, 0, 0, 0.7) 60%, rgba(0, 0, 0, 0)); url('../background.jpg') !important;
}
```

Frontpage button:

btn--x-large - in index.md

colour:

```
_sass/custom.scss:
$info-color: #1d386a;
```

This will make the top bar big:

positions.scss:

```
.masthead_inner-wrap {
  padding: 0.3em;
  font-size: 2em;
}
```

News header:

```
.sidebar_right > #news {
  margin-top: 0px;
  margin-bottom: 5px;
  font-size: 4em;
}
```

All headers:

```
.firstrow h3,
.sidebar_right h3,
.mainblock h3
{
  margin-top: 0;
  font-size: 3em;
}
```

Font-sizes in general:

\_sass/python.scss

```
.toc_menu a {
  border-bottom: 1px solid $border-color !important;
  font-size: 1.2em;
}
```

a:not(.btn):not(.pagination--pager) {

```
h1 {
  line-height: 1em;
  color: $header-color;
  text-decoration: none;
  font-size: 1em;
}
```

```
h2, h3, h4, h5, h6 {
  color: $subheader-color;
  line-height: 1em;
  font-size: 1em;
}
```



# Things can get ugly on mobile devices/ipads...

