

Migrating Geant4 web-site

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Last step in migration of web tools

- End 2015: Collaboration agreement tool
- Feb 2016: Tags database interface
- Soon: **Geant4 web site in Drupal**



Content

- Geant4 web site in Drupal
- Timescale for migration to new new site



Current/Old Geant4 Websites

- Main Geant4 web site: <http://cern.ch/geant4> :
 - Public plain website based on shtml files in afs, using server side includes
 - Mirror at <http://geant4.org>
 - Collaboration and protected pages
 - No common style/format
 - From plain txt files, plain html, to google generated 'html'
- Other sites
 - DoSSiER: Validation database portal at FNAL
 - Geant validation web app
 - Several sites or wiki's for individual working groups or Geant4 institution specific pages



Draft Geant4 website in drupal

- new-geant4-dev.web.cern.ch



Overview

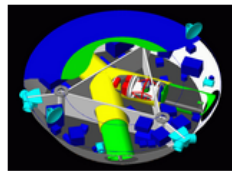
Geant4 is a toolkit for the simulation of the passage of particles through matter. Its areas of application include high energy, nuclear and accelerator physics, as well as studies in medical and space science. The two main reference papers for Geant4 are published in Nuclear Instruments and Methods in Physics Research A 506 (2003) 250-303, IEEE Transactions on Nuclear Science 53 No. 1 (2006) 270-278 and Nuclear Instruments and Methods in Physics Research A 835 (2016) 186-225.

Applications



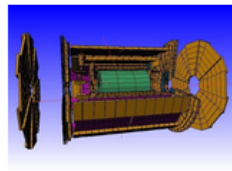
A sampling of applications, technology transfer and other uses of Geant4

User Support



Getting started, guides and information for users and developers

Publications



Validation of Geant4, results from experiments and publications

Collaboration



Who we are: collaborating institutions, members, organization and legal information

News

- **Fri, 01/27/2017**
Patch-03 to release 10.2 is available from the [source archive](#) area.
- **Thu, 06/30/2016**
Release 10.3 BETA is available from the [Beta download](#) area.
- **Wed, 06/29/2016**
Patch-02 to release 10.2 is available from the [Download](#) area.

Events

- [Geant4 User Workshop](#), Sage Hotel, Wollongong (Australia), 19-22 September 2017.
- [22nd Geant4 Collaboration Meeting](#), UOW Campus, Wollongong (Australia), 25-29 September 2017.
- [5th International Geant4 School](#), Catania (Italy), 23-27 October 2017

Draft Geant4 website in drupal

- new-geant4-dev.web.cern.ch
- Completed migration of existing site
 - Public pages
 - Internal and SB pages
- Used Importer tool
 - Based on original tool by summer student
 - Crawl existing site
 - parse pages to extract
 - **links** to other pages and files
 - **content** like title and body of page
 - Difficulty: wide range of page formats of G4 pages, down to plain text
 - Upload files
 - Create nodes, one node per page parsed
 - Correct links
 - Create alias and menu



Draft website in Drupal

- new-geant4-dev.web.cern.ch
- Look similar to existing page
- Site has ~ 1500 pages, ‘copied’ from old site
 - Many of these are SB agenda and minutes
- All collaborators have right to edit
 - Login is via CERN account
 - SB protected pages are only accessible to SB members
- User documentation not ‘copied’ into Drupal
 - Explicitly kept separate
 - Accessed via new web site geant4-userdoc.web.cern.ch
 - Currently still in old place on afs
- Download page still in development



Features

- Content and settings stored in database
 - Content not accessible via filesystem
- Content is created and modified in browser
 - Using different content types
- Content can be labelled – taxonomy
 - Not used so far
- Files like pictures/pdf/... kept in a filesystem
 - Upload via web interface, some content types allow direct upload
 - Mounting of filesystem possible from windows, ... (<https>)
- Site fully backed up daily, backup includes DB and files
 - Automatic backups kept for 10 days
 - Manual backups possible, but limited to 5



Content Types

- Content kept in node \neq web page
- Node is a collection of fields:
 - Title, text, date, file, ...
- Easy access control per content type
- Aggregation of node content possible via views
 - Events and News
- Main content types
 - Basic page, Article, basic with files, basic with sideblock, imported page
 - News item, event; course
 - Several content types for minutes, agenda
- Content can be and by default (G4) is versioned, can roll back



Differences to old site

- Pro
 - Easier editing, not limited to subset of collaboration
 - WYSIWIG, in browser
 - Common look for all pages, not just top level pages
 - Layout works on portable devices, theme takes care of this.
 - Events and news can easily be added without change of frontpage
 - Each event or news item is one piece (node) of content
 - Selected items shown in list, table...
 - Events/news have an end date after which they will not be shown
- Contra
 - Learning curve
 - High for admin tasks, less for collaborators
 - Numerous modules needed
 - Not always clear what is best way or module for a certain function



Open problems

- For you to find :-)
- Few pages with internal css
 - Though this did better in a dev site
- Download page
 - Old pages uses combination of stml features and javascript.
 - No module found



Timescale for Switching <http://cern.ch/geant4> to Drupal site

- Rather short timescale for switch to new site
 - Maintaining two sites in sync is difficult
- Freeze existing site this week?
- Evaluate new site, identify and fix problems
- Re-check that mirror for geant4.org as expected
- Switch cern.ch/geant4 to Drupal site within a month
 - And disable geant4.cern.ch
 - Or forward to Drupal site
- Can we agree on this plan rather soon



Summary

- A draft web site for Geant4 in Drupal exists
- Feedback on problems is needed
- Migration to new site on short timescale



Drupal basics

Basic Drupal slang

- **Theme:** layout of pages, regions, colors, fonts,
- **Node:** basic unit of content
 - A node is not a page, but node(s) are shown on page(s)
- **Content type**
 - Basic page
 - Imported page
 - News item
 - ...
- **Region**
 - Nodes or blocks are placed in regions
- **Menu,** to ease navigation
- **Page**
- **View**
 - Combine nodes or parts/fields of nodes including filtering
- **Taxonomy:** keywords which can be added to nodes,....



Basic introduction to edit/add pages

- Log in to change or add pages
- To edit, go to the page, and click on the edit just below the title of the page
- To add a page, click add content, choose type of page to add, e.g 'basic page'
 - Give a title, and body.
 - Choose the kind of text, plain ascii, filtered or full html; usually we need full html
 - To add a link to another existing page, select the text to become the link, click on the link symbol, choose link type as URL, protocol to be
 - <other> for site internal link, address is something like content/.....,
 - http(s):// for link to external page, address is URL without the http(s)://
 - At the bottom of the page, you set options:
 - you may create an entry in a menu:
 - Select 'Provide menu link'
 - choose parent menu where you want the entry
 - Create a new version, so we can revert
 - Under publishing information, select 'published'
 - Then click SAVE, you may also save before you are fully done and continue later.
 - If you exit without save, all is lost. Going to another page without save also loses changes.

