

# Geant4 Documentation and User Support

Fermilab Geant4 Tutorial  
*27-29 October 2003*  
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# What's Available ?

- Toolkit Documentation Manuals
- Training Materials
- Code Browsers
- Online User Forum
- Problem Reporting System
- Geant4-related Web Sites
- Documentation upgrade

# User Documents (1)

- Geant4 homepage: <http://cern.ch/geant4>  
click on **Documentation**
- All documents available in html, pdf, ps and ps.gz
- Introduction to Geant4
  - overview of Geant4
  - link to FAQ
- Installation Guide
  - where to get code
  - how to set up the toolkit on your computer

# User Documents (2)

- Application Developers Guide
  - How to set up and run a simulation application
  - Describes the most useful tools
  - Introduces new users to toolkit
- Physics Reference Manual
  - Reference describing physics behind the tools
  - Theories, models, parameterizations

# User Documents (3)

- Toolkit Developers Guide
  - Description of OO design of toolkit
  - For advanced users wanting to extend Geant4 functionality
  - Currently under repair (but still available)
- Software Reference Manual
  - Detailed description of all toolkit classes and their public methods
  - Currently only html version available

# Training Materials

- Click **Support**, then **Training Material**
- One-day course
  - Introduction and overview of Geant4
- Tutorial or school course
  - Exercises: Geant4 & JAS
  - Detector Description School Course
- Academic course
  - Lectures on Geant4 Physics
- Lectures from Users' Workshops

# Code Browsers

- LXR : click **Support**, then **LXR Source Code Browser**
  - Search entire source tree
  - Filename, text, identifier search
- Alternate source tree browser : from main page (under Useful information for users), click **Source code**, then at the bottom click on **browse**

# Online User Forum

- Click on User Forum, top of Geant4 homepage
- 19 forums roughly based on categories
- New forums may be requested by members
  
- To join, click **membership** on Forum main page
- Once joined, go to **Central HyperNews Subscription Page** and select forums

# Problem Reporting

- Click on **Problem Reporting**, bottom of Geant4 homepage
- **Known problems**
  - Before reporting a problem, check here first and search
  - Existing problems organized by release, category, status, platform, etc.
- **Problem Report**
  - Need a password to file report
  - Fill out form

# Geant4-related Websites

(bottom of main page)

- BaBar
- DESIRE
- ESA
- GUI and Environments
- IN2P3
- INFN
- Japan Users Group
- KEK
- Kyoto Ritsumeikan U.
- QinetiQ Space Department
- SLAC
- Space Users Page
- Technology Transfer
- TRIUMF

# Documentation Upgrade

- June 2001: Geant4 collaboration begins overhaul of documentation
- Re-organization of documents completed December 2001
- Re-writing and augmentation continues
- Website overhaul (2004?)
- **Comments (and volunteers) welcome!**