

DUNE Computing: feedback on wiki

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Links

Wiki link: https://computing-wiki.dunescience.org/wiki/Main_Page

Criticize here: GoogleDoc (preferably with the comment feature)

Thanks to those who sent feedback!

Still asking for more comments



Feedback on previous suggestion for blocks:

Iterating for now on the 'big blocks' of the main computing page

MANAGEMENT **OPERATIONS** EXPERIMENT SOFTWARE DEVELOPMENT **GETTING STARTED MEETINGS & CONTACT** SERVICE DEVELOPMENT

McNab: Getting started ⇒ renaming "User area"? and put it on top?

David (me): the "Working groups" still in a block? problem: duplicated information

Meetings & Contact put in "Management"



MANAGEMENT

About

- DUNE Computing Mission Statement
- Organizational chart

Meetings

- Core weekly meetings
- Software & Computing (Indico Category)
- Workshops

Contact

- Mailing lists
- Write to us

OPERATIONS

ProtoDUNE

- ProtoDUNE Single-Phase status
- ProtoDUNE Dual-Phase status

Sites

• Sites status

Production & Processing

Production monitoring tools (<u>ref</u>)

USER AREA: GETTING STARTED

New to DUNE?

- How to join DUNE ❷
- HOW to Join DONE &
- How to get a Fermilab account 丞
- · Getting Started Tutorial

Specific How-To Documentation

- Setting up a session (FNAL and CERN)
- Building and running code interactively
-
- Finding data
- Storing data
- Running code on distributed computing
- Security tips and tricks
- Troubleshooting

List of past tutorials

List of past DUNE Tutorials, LArSoft and FIFE Workshops

WORKING GROUPS

- ProtoDUNE liaison
- Near Detector
- Software Management
- Database
- Workflow
- Networking
- Data Quality
- Data management
- Production

Lots of repetition, suggesting here
'Links' to relevant code packages / github repositories..

SOFTWARE DEVELOPMENT

DUNE Software

- Software management
- Framework Task Force

Detector softwares

- ProtoDUNE Single-Phase software
- ProtoDUNE Dual-Phase software
- Near Detector software

where to put Art, LArSoft, CAFAna, Pandora...?

SERVICE DEVELOPMENT

Data management

- Working group ← suggestion
- Tools (lists SAM, Rucio info)

Workload and Workflow development

- Working group
- Tools

Information Systems development

• ? List here or dedicated page?

Monitoring Systems development

• ? List here or dedicated page?



Categories

To benefit from MediaWiki's features. Here are suggestions on categories:

Upper categories: according to the 'pillars':

Service/Development (Training) Management Operations

And/or according to the types of pages:

Working group (using template feature)

Training/How-to

⇒ subcategories: "newcomer tutorial", "workshop", "user registration", "job submission", "job monitoring", "data access", "data catalog"

Tools

⇒ subcategories: "monitoring tools", "data management tools", ...

Softwares

⇒ subcategories "detector software", "LAr-based software" ...







Summary

Do we validate the main blocks?

Brainstorming on block content

Feedback on categories appreciated



Extra material



Right now

COMPUTING CONSORTIUM

About

- DUNE Computing Mission Statement
- · Organizational chart

Meetings

- · Core weekly meetings
- Software and Computing (Indico category)
- · Computing and Software workshops

Documentation

- Technical Design Report, Vol I (Feb. 2020)
- · Conference talks and proceedings

Contact

- Mailing lists
- · Write to us

DUNE'S COMPUTING MODEL

Data

- . DUNE's Data Model and Object definitions
- SAM data catalog
- ProtoDUNE's data

Access to code

- GitHub repositories
- Docker images

ACTIVITIES

Working groups

- ProtoDUNE liaison
- Near Detector
- Software Management
- Database
- Workflow
- Networking
- Data Quality
- Data management
- Production

Task Forces

Software Framework Requirements Task Force

SOFTWARE PROJECT

Detector software

- Far Detector Software
- Near Detector Software
- ProtoDUNE Software

Argon-based software

- Art Project
- LArSoft
- GArSoft

Reconstructing interactions

- CAFAna
- Pandora

GETTING STARTED

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DISTRIBUTED COMPUTING

Sites

- . List of DUNE's sites
- Monitoring tools

Tools

- Stash Cache
- DUNE and Bucio

Collaborations

- . DUNE and the Worldwide LHC Computing Grid
- · Fabric for Frontier Experiments (FIFE)







Exploit MediaWiki features

- → sidebars
- → categories
- → templates

Categories

- → Instead of manual links ⇒ top-down, pre-defined tree
- → MediaWiki categories provide a more generalized, automatic & organically grown hierarchy

Example: DayaBay wiki

Categories can be named after "working group", and/or "documentation" and/or "analysis" and/or "tools", etc.

Templates

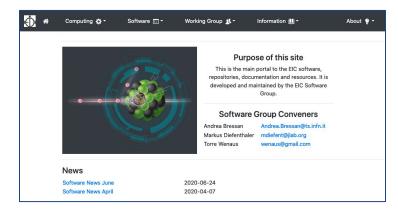
- → Can allow some often-used elements to be invoked more easily by authors
- → Common header for pages + incorporate the category tag(s)



Static website generator (e.g. Jekyll)

Very useful and highly customizable tool for software and other documentation effectively serving as a content management system.

E.g. prototype for EIC: https://eic.github.io/



Pros

- → it's git-friendly: robust & familiar & transparently supported and hosted by GitHub
- → authoring documents in the Markdown format is trivial
- → one can create structured data (via JSON and YAML) which is parsed into pages/templates in many configurable ways; (not sure on MediaWiki but trivial in Jekyll)
- → easy and flexible templates for pages
- → complete freedom of styling etc
- → security

