

OTB Users Days 2017

Introduction

OTB Team



05/06/2017



Welcome to OTB Users Days 2017 !

Thank you all for being here !

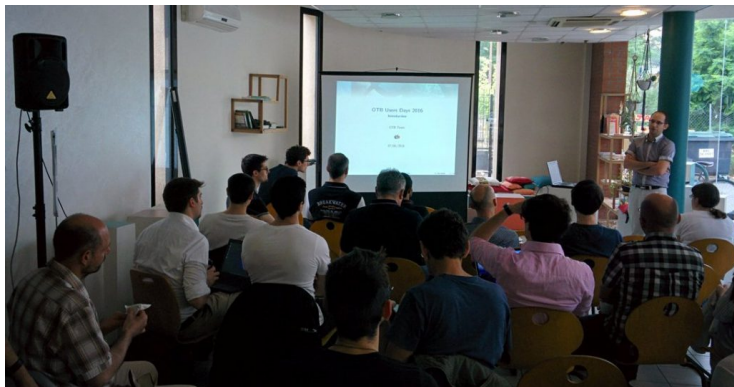
- ▶ Thank you for agreeing to spend some time discussing about OTB !
- ▶ Excited to learn about how you use OTB and your feedback
- ▶ Hope that the meeting will be fruitful

Getting started

- ▶ OTB Dev team has set up a tentative program
- ▶ But program should be adapted for you
- ▶ Discussions are more important than presentations
- ▶ We can always organize small groups to work on specific topics
- ▶ We need your help to finalize the program



Recap of OTB Users Days 2016



OTB Users Days 2016 (second edition)

Recap day 1

Day 1

Presentations from the OTB development team

Introduction, What's new in OTB? open governance, Monteverdi, packaging, code provenance review...

OTB usage

- ▶ Big Data Solutions for EO(JRC), OTB for BIOMASS, OTB for processing UAS imagery (CSIC), Geosigweb

Tech talks

- ▶ MPI-powered OTB, new classification framework in OTB, shark in OTB, S1 geometry...



Tutorials

- ▶ Introduction to Monteverdi 3.0
- ▶ OTB tools for image segmentation
- ▶ Discover the new applications (Classification, Polarimetry)
- ▶ The steganography game
- ▶ Reminder about applications framework and extended filenames
- ▶ Write your own remote module

Brainstorming session

- ▶ Should we do SimpleOTB?
- ▶ What is missing in Monteverdi?
- ▶ What is missing in the new classification framework?

I think that we forgot to provide a report...



Recap day 3

- ▶ Prototyping SAR visualization in Monteverdi (RFC-39) -> GDAL contribution done!
- ▶ Migrating the Cookbook to RST -> done!
- ▶ Shark integration -> done!
- ▶ In memory application chaining -> done
- ▶ Select image bounds in extended filenames -> done
- ▶ JIRA cleanup -> done :(
- ▶ PSC meeting



Tentative program 2017

https://huit.re/otb_users_days_2017



Day 1 : Talks

- ▶ 15/20 minutes talks and leave 5/10 minutes for questions
- ▶ Language for the event will most probably be French
- ▶ However slides and materials should be in English if possible
- ▶ In parallel : organize Day 2 and 3 (check with session leaders)



Day 2 : Parallel sessions

- ▶ Tutorials
- ▶ Open question & features requests & one-to-one tutoring
- ▶ Brainstorming



Day 3 : Hackfest

- ▶ Breakfast meeting : C++11/14/17 for OTB ?
- ▶ Then 30 minutes planning meeting at the beginning
- ▶ Write the code you need with the help of a member of the development team
- ▶ Documentation review : live enhancement of the documentation
- ▶ Live bugfixes : You think you found a bug ? We investigate and fix it with you
- ▶ Packaging improvement
- ▶ PSC meeting (to be scheduled)
- ▶ If there is time left : guru code hacking

Lunch : Pizza party !



Useful information

Program

https://huit.re/otb_users_days_2017

Wireless internet connection

password : H@rriKaow !!

Coffee and coffee breaks

Lunches

Social events

17 :00 - 19 :00 : Ice breaker Cocktail offered by our sponsor (CS-SI)

Sponsor

Thanks to CS for hosting and catering the event !



Any questions ?



Day 1 : Plenary session (June 7) - Morning

10 :00 - 12 :00

- ▶ What's new in one year of OTB?" - V. Poughon
- ▶ iota2 : scaling-up land-cover mapping thanks to OTB" - A. Vincent
- ▶ Développement de chaines d'extraction d'informations à partir d'OTB - J. Maxant
- ▶ Utilisation de l'OTB à l'IRSN - METIVIER JM/MENDY E
- ▶ MAJA software introduction and feedback on the development of otb applications" - P. Lassalle |

12 :00 - 14 :00 **Lunch break**



Day 1 : Plenary session (June 7) - Afternoon

14 :00 - 17 :30

- ▶ **Group photo**
- ▶ Large scale superpixel segmentation with OTB" – Dawa DERKSEN
- ▶ Benchmarking of image processing libraries for the Euclid ground segment – Peter Kettig
- ▶ Open Earth Engine : Integration of OTB in an Interactive Platform for Large Scale Remote Sensing and Visualization – B. MEYLHEUC
- ▶ OTB for remote sensing of forest using SAR images – M. Ballere
- ▶ Break
- ▶ A dimensionality reduction framework for OTB – C.Traizet & J. Inglada
- ▶ Plans for asynchronous writing in OTB – J.Michel / CNES
- ▶ OTB in QGIS : User feedback – M. Fauvel / ENSAT

17 :30 - 19 :00 **Ice breaker**



Day 2 : Technical session (June 8) - Morning

09 :30 - 12 :00 : Tutorials

- ▶ Beginners (learn Monteverdi and OTB Applications)
- ▶ Intermediate 1 (sampling and classification)
- ▶ Intermediate 2 (internals)
- ▶ Advanced (develop an OTB application in C++)

12 :00-14 :00 Lunch break



Day 2 : Technical session (June 8) - Afternoon

14 :00-17 :00 Track 1 : Continue tutorials (Victor)

14 :00-17 :00 Track 2 : Open questions/tutoring (Manuel)

14 :00-17 :00 Track 3 : Brainstorming (Julien)

We'll brainstorm technical topics, with the objective of writing a RFCComments.
Some ideas :

- ▶ Refactoring of ExtractROI (and Convert?) app : what users want
- ▶ How to fix DownloadSRTMTiles and make it better
- ▶ How to improve OBIA in Orfeo ToolBox
- ▶ Deep learning in OTB : yes or no? why, how, when?

**17 :00 - 19 :00 : Happy hours (open questions and discussion
with the development team)**

