

FOSS och hur världen finns där ute och delar med sig

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Denna timme

- FOSS utvecklingsmodell
- Hur får man tag på hjälp?
- Hur bidrar man?
- Var hittar man programvaran
- Services som finns

FOSS utvecklingsmodell - förutsättningar

- Antalet utvecklare varierar
- Inget kontor
- Inga fasta arbetstider
- Deltagare från hela världen

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- Antalet utvecklare varierar
 - Inget kontor
 - Inga fasta arbetstider
 - Deltagare från hela världen
- Detta har lett till en arbetsmetodik som även annan typ av utveckling använder
 - Det har också lett till att ledarfunktionen i organisationer ändras
 - i.e. Självstyrande organisationer

FOSS utvecklingsmodell (varierar otroligt!!)

Generiskt för ett projekt:

- Alla kan delta
 - bara att anmäla sig
- Det finns regler
 - “Code of conduct”
- Executiv “ledning”
 - Röstras fram, eller de som håller i idén
- Många företag har sina anställda att skriva FOSS kod.
- Har ofta buggrapportering från användare (inbyggd)
- Gemensam versionshantering
- Mejllistor
- Chat: IRC hyfsat vanligt
- Allt är öppet

FOSS utveckling

- Används i många projekt för att det är effektivt

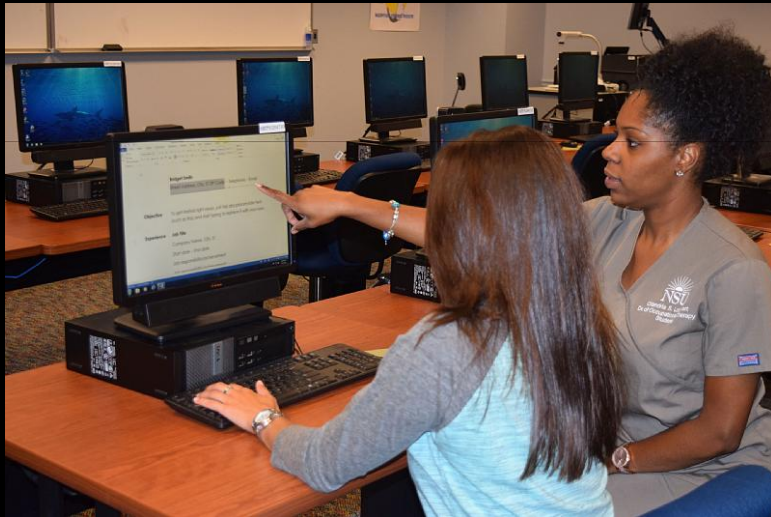
För personer:

- Vill ni koda så gör det!!
- Ofta eftersöks dokumentatörer

Hjälp med FOSS frågor

- Sökmotor: google, duckduckgo et dyl.
 - Ubuntu forum
 - Arch linux forum
- Online documentation
- Mejllistorna till det programmet
- Chatkanaler för programmet
- Browsa gamla poster
 - gamla svar, mejllistor
- Betala support

Vi hjälper varandra



En kommentar om FOSS

Företag bestämmer sig för licensiera deras program som FOSS för att:

- De tjänar på det
- eller förlorar inte så mycket. . .
- De vill ha kontakt med “community”

Vad är FOSS community?

- **Personerna som hjälper utvecklingen**

- Programmerare
- Dokumentatörer

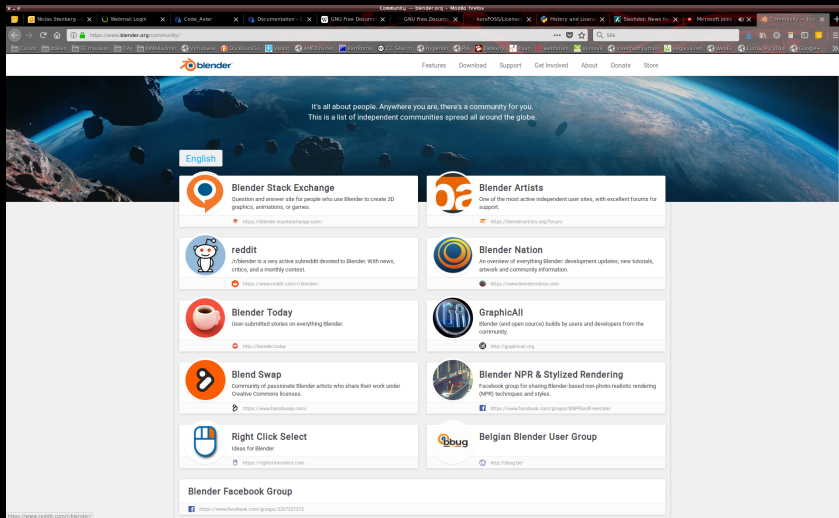
De förbättrar hela tiden

- **Användare**

- Bugg-rapportörer
- Feedback

De svarar på användarfrågor

Som exempel: Blender communities



Mer Blender : Utveckling

The screenshot shows the Blender.org website's 'Get Involved' page. The browser's address bar displays 'https://www.blender.org/get-involved'. The page has a dark header with the Blender logo and navigation links. Below the header, a large banner image shows a group of people at the Blender Conference 2013. The main content area is divided into four columns: Development, Documentation, Education, and Donations and Sponsors. Each column contains text about the project's open-source nature, volunteer opportunities, and resources for developers and users. The footer contains links to various Blender resources and social media channels.

Get Involved

Development Documentation Blender Conference

Blender is being made by hundreds of contributors from around the world, by studios and individual artists, professionals and hobbyists, scientists and students, VFX experts and animators, and so on. All of them are united by the desire to have access to a fully free/open source 3D creation pipeline.

The Blender Foundation supports and facilitates these goals. Using donations and the Blender Institute projects we can enable a handful of people to work full-time on Blender. For the rest we depend on volunteers from the online community to achieve this goal. More help is always welcome!

Development

Blender is an open source project licensed under the GNU GPL. All code is written in C, C++ and Python.

Volunteers and professionals alike contribute to the official Blender release. This includes developers, scripters, technical documenters (for wiki), translators, designers and users testing the software and giving feedback.

Read on to find out how to get involved, report bugs, see what's happening, and discover resources and documentation.

[Read more >](#)

Documentation

A large number of people are helping with the [Blender Manual](#) to organize and write our complete and freely available end-user documentation.

Volunteers interested in documentation translations can contact the team as well.

[Read more >](#)

Website

People who would like to help with building this website are invited to join the [bf-wecontent mailing list](#).

Education

The Blender Foundation considers education and training projects crucial for a successful Open Source project.

We are currently coordinating knowledge in this area, sharing experiences, and evaluating proposals for [official \(certified\) training programs](#) on the [bf-education mailing list](#). Everyone interested in the topic is free to join.

Here you find more information about the [Blender Foundation Certified Trainer](#) program.

Donations and Sponsors

The [Blender Foundation](#) is an independent public-benefit corporation, to facilitate the open source Blender projects. Individuals or companies interested in supporting this financially can contact the foundation or visit the [donations](#) page.

We also run an e-shop where documentation and Blender goodies are sold. The profits from the shop are used to cover Foundation expenses and support Blender Institute projects.

Blender
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Features
Source
License

Organization
Foundation
Institute
Conference
Blender Network

Get Involved
Donations
Community
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Documentation
Education

Support
Community
Manual
Tutorials
Python API

blender.org
News
Jobs
Contact
Logo & Trademark

Follow Blender
YouTube Facebook Twitter

Ubuntu forum

The screenshot shows the Ubuntu Forums homepage. The browser window has several tabs open, including 'Ubuntu Forums - Mozilla Firefox', 'Applying Slicing Recommendations', and 'Ubuntu Forums'. The address bar shows 'http://www.ubuntuforums.org'. The website has a red header with the 'ubuntu® forums' logo and navigation links like 'Forum', 'Activity Page', and 'Please read before SSO login'. Below the header, there are sections for 'The Ubuntu Forum Community', 'Ubuntu Specialised Support', 'Ubuntu Community Discussions', and 'Other Discussion and Support'. Each section contains a list of sub-forums and a 'Last Post' entry with the topic, author, and time ago. At the bottom, there is a 'What's Going On?' section with 'Ubuntu Forums Statistics' showing 2,786,210 threads, 13,105,292 members, and 2,063,003 active members.

ubuntu® forums

Forum Activity Page Please read before SSO login

Quick Links Forum Community Ubuntu Community Other Support Social Media Useful Links

Log in with SSO

Advanced Search

Forum

Ubuntu Forums

Welcome:

The Ubuntu Forum Community

Choose the most appropriate category for your questions regarding Ubuntu, Kubuntu, Xubuntu, Edubuntu, Lubuntu, UbuntuGnome, Ubuntu Studio, Mythbuntu, Ubuntu Mate, Ubuntu Budgie and Ubuntu Kylin.

- New to Ubuntu
- Hardware
- Multimedia Software
- General Help
- Desktop Environments
- Installation & Upgrades
- Networking & Wireless

Last Post: [ubuntu] My headphones are translating... by velenafasov 1 Minute Ago

Ubuntu Specialised Support

Specialised categories of support for the recognised Ubuntu Flavours: Ubuntu, Kubuntu, Xubuntu, Edubuntu, Lubuntu, UbuntuGnome, Ubuntu Studio, Mythbuntu, Ubuntu Mate, Ubuntu Budgie and Ubuntu Kylin.

- Ubuntu Development Version
- Ubuntu Servers, Cloud and Juju
- Development & Programming
- Security
- Gaming & Leisure
- System/IO Support
- Virtualisation
- Wine
- Apple Hardware Users

Last Post: [server] MacOS client has completely... by mr.robots 7 Minutes Ago

Ubuntu Community Discussions

The water cooler of Ubuntu Forums, a place to discuss pretty much anything (within reason). You will also find our resolution centre, forum council agenda and much more.

- Ubuntu, Linux and OS Chat
- Mobile Technology Discussions
- Membership Applications
- Forum Feedback & Help
- The Cafe
- Announcements & News
- The Frigate Discussions
- Resolution Centre
- Market
- Weekly Newsletter
- Forum Council Agenda

Last Post: Beta testers for the new Perl... by cariboo 6 Hours Ago

Other Discussion and Support

- Other OS Support and Projects
- Education & Science
- Ubuntu Women
- Assistive Technology & Accessibility
- Documentation and Community Wiki Discussions
- Ubuntu LoCo Team Forums
- Art & Design
- Tutorials

Last Post: [Arch Linux] Custom Grub for Arch in... by Cavin 22 Hours Ago

Mark Forums Read | View Forum Leaders

What's Going On?

Ubuntu Forums Statistics

Threads: 2,786,210 Beans: 13,105,292 Members: 2,063,003 Active Members: 2,904

Welcome to our newest members: hwanhuan

Icon Legend

För FOSS-ingenjören

CalculiX:

mejllista:

<http://groups.yahoo.com/group/calculix>

Salome - Code Aster:

Forum:

<https://www.code-aster.org/forum2/>

Var finns all FOSS?

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Om linux distro används:

- I “Repositories”
 - strukturerade databaser för distron

eller i:

- tilläggsrepositories
 - databaser som har samma struktur som den officiella

Var finns all FOSS?

Större projekt:

- På respektive sida
 - Både binärer och källkod
- Exempel
 - Blender
 - GIMP
 - Octave

Var finns all FOSS?

Versionshanteringsiter

- github.com
- sourceforge.net
- savannah.gnu.org

ofta hämta hem källkoden och kompilera

Annars

- ostrukturerat:
 - så sök!

Ett tips: lägg till *GPL* när ni söker program för att hitta FOSS

Services som finns där ute

Tjänster som kan användas där FOSS för beräkningsingenjörer har en stor del.

Services som finns där ute

Services som härstammar från EU-projekt

- Fortissimo: <https://www.fortissimo-project.eu/>
 - Buying Services (betala användande per timme)
 - Knowledge Database (dokumentation)
 - Domain Experts (det det låter som)
- cloudSME: <http://www.cloudsme-apps.com/>
 - Platform as a Service (PaaS)
 - Software as a Service (SaaS)
 - CalculiX, OpenFOAM, ...

Sedan så: ... såklart ...

- Amazon Web Service (AWS)
 - Elastic Cloud 2
- Google Cloud
 - Compute Engine (Virtual Machines)
- Microsoft Azure
 - Virtual Machines

Kostnad (Ubuntu, standard tidsbaserad):

- 64 kärnor approx: \$4/timme
- 16 kärnor approx: \$1/timme

Rent praktiskt: Varje tjänst har sin miljö

Det finns att ladda ner:

- För Amazon Web Service (AWS)
 - aws
- För Google Cloud
 - gcloud
- För Azure
 - vet ej

Annars så funkar browsern och ssh bra, dock utan automatiseringsmöjligheter.

Användning:

- 1 Skapa konto
- 2 Starta en "instance"
- 3 Flytta över binär och input-fil
- 4 kör!

Användning:

Skriv ett script som

- startar önskad instans
- flyttar över motor och input-fil
- startar
- flyttar tillbaka när klart
- stänger instans

sedan kör:

```
$>: ccxAWS simfil.inp
```



```
#!/bin/bash
# Only works for t2.micro AWS instances (1 cpu and free tier)
export AWS_DEFAULT_OUTPUT="text"
ID=$(aws ec2 describe-instances --filters "Name=instance-type,Values=t2.micro" --query Reservations[0].Instances[0].InstanceId)
STATE=$(aws ec2 describe-instance-status --instance-ids $ID --query InstanceStatus[0].InstanceState.Name)
if [[ -z $STATE ]]; then
    aws ec2 start-instances --instance-ids $ID
fi
# create something to run (copy ccx and make executable)
scp -i /home/$USER/.ssh/EUcentralKIM.pem /home/$USER/aws/ccx \
ubuntu@ec2-xx-xxx-xxx-xxx.eu-central-1.compute.amazonaws.com:
ssh -i /home/$USER/.ssh/EUcentralKIM.pem ubuntu@ec2-xx-xxx-xxx-xxx.eu-central-1.compute.amazonaws.com \
'chmod 755 ccx'
# copy the file and run
scp -i /home/$USER/.ssh/EUcentralKIM.pem $1 ubuntu@ec2-xx-xxx-xxx-xxx.eu-central-1.compute.amazonaws.com:
ssh -i /home/$USER/.ssh/EUcentralKIM.pem ubuntu@ec2-xx-xxx-xxx-xxx.eu-central-1.compute.amazonaws.com \
'bash -s' <<'ENDSSH'
# OMP_NUM_THREADS=64
# export OMP_NUM_THREADS
./ccx inpFile
ENDSSH
```

Sammanfattning

- Det viktigaste med FOSS är användarna
 - De ger feedback på användningen
 - De ger hjälp vid frågor
 - De skapa användardokumentation - manualer, tutorials, etc.
- Hjälp vid frågor
 - mejllistor, chat – både gamla och nya
 - Köpt support
- Programmen finns på nätet
 - Ofta binärer, men nästan alltid källkod
- FOSS passar bra för molntjänster
 - Inga konstiga licensvillkor