



Corso di Informatica

LIBERA

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DEBIAN DEVELOPER, UBUNTU DEVELOPER

CENTRO SOCIALE S. CATERINA, FERMO — 30 GENNAIO 2014

COS'È L'INFORMATICA?

The background of the image is a close-up of a piece of paper covered in handwritten mathematical formulas. The handwriting is in dark ink and includes various mathematical symbols such as summation ($\sum$), logarithms ($\log$), and complex expressions involving variables and functions. The text is slightly out of focus, creating a sense of depth. The main title is overlaid on this background.

Una branca della **MATEMATICA**

INFORMAZIONE

...e lo fa con il
SOFTWARE

COS'È IL SOFTWARE?

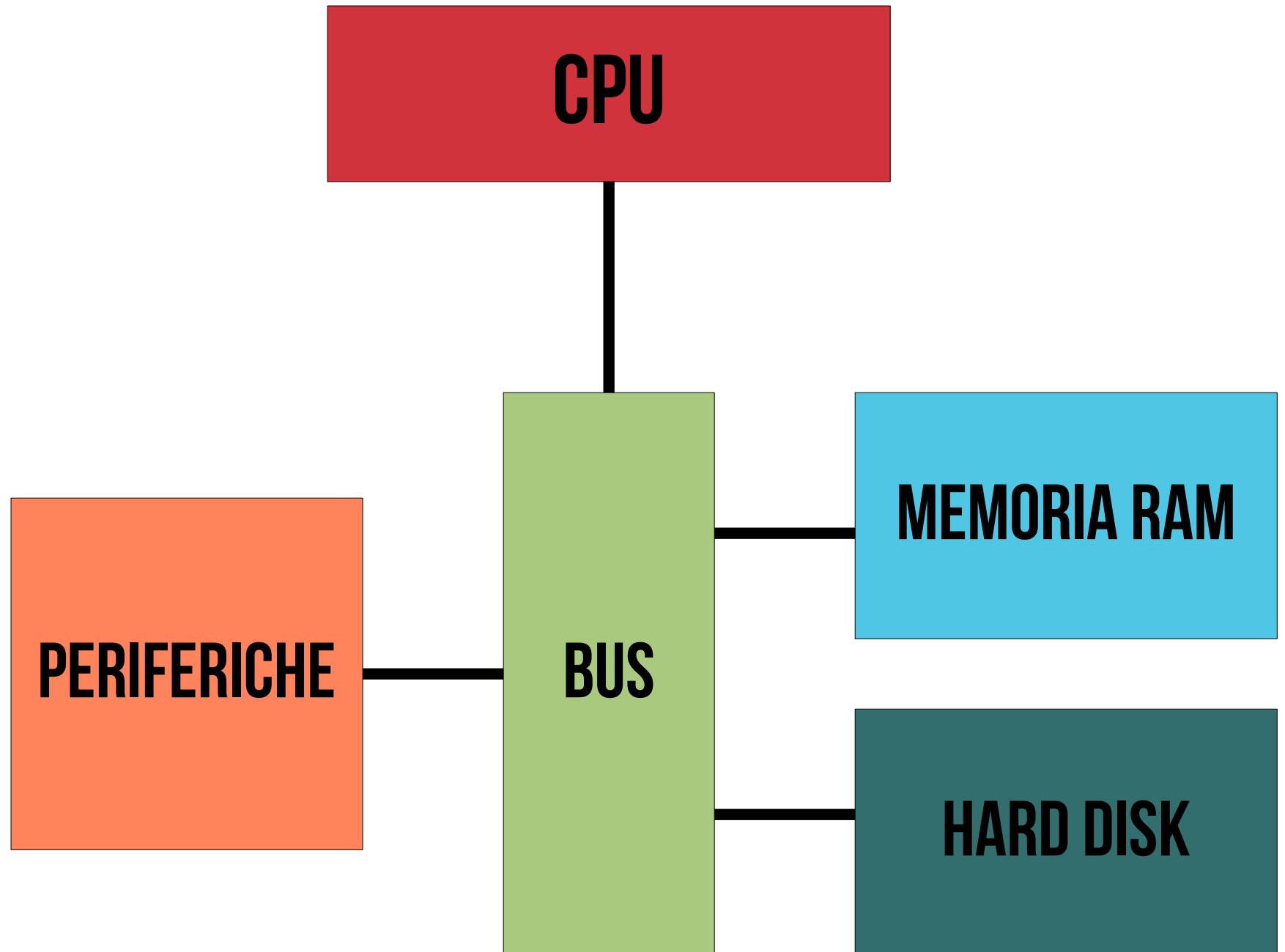
HARDWARE

è tutto quello che puoi prendere a calci.

SOFTWARE

è tutto quello che puoi solo maledire.

**INTERVALLO:
COM'È FATTO UN COMPUTER?**



CPU



RAM



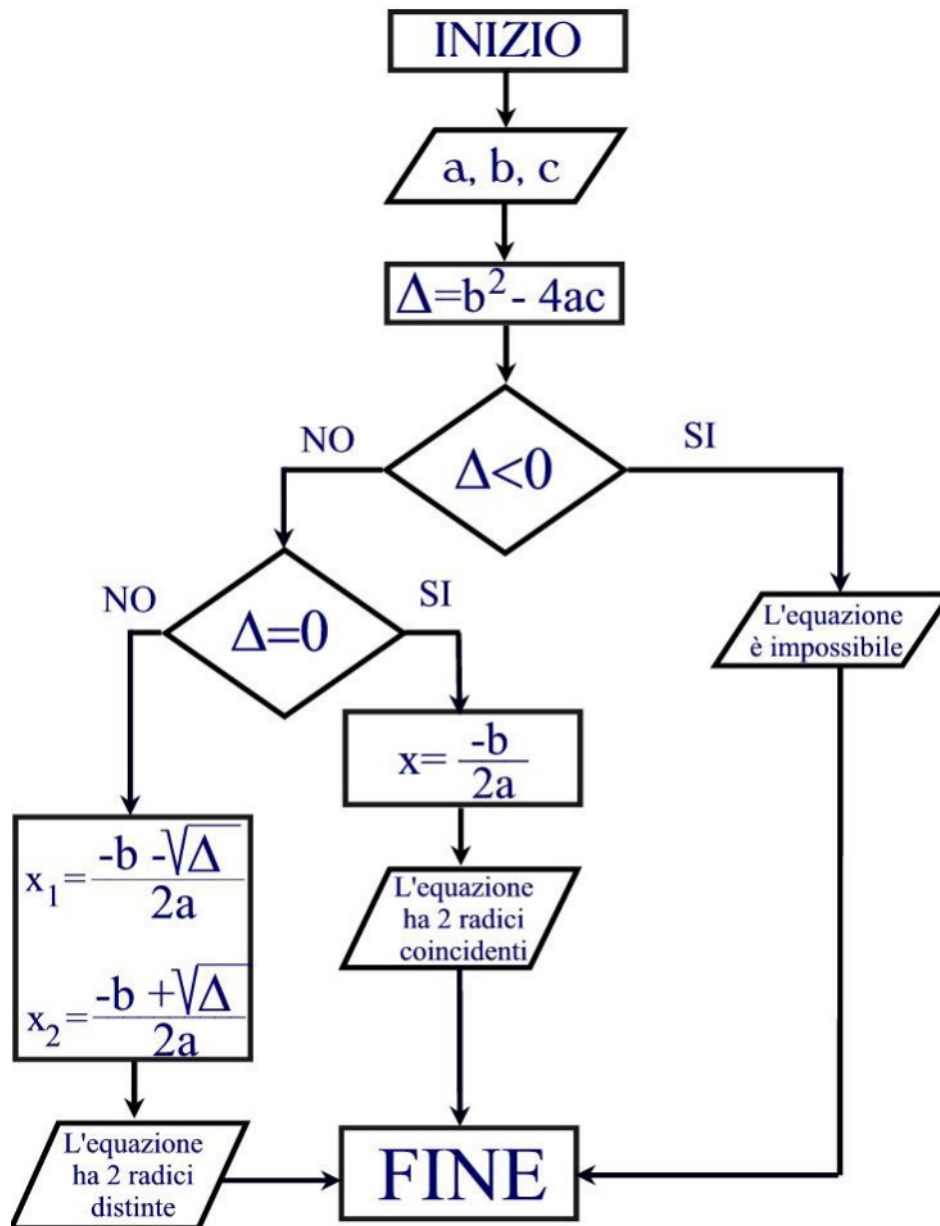


HARD DISK



SCHEDA MADRE

DICEVAMO: E IL SOFTWARE?



ALGORITMO



LINGUAGGIO



SOFTWARE

SANGIORGI & WALKER

The π -calculus

A Theory of Mobile Processes

CAMBRIDGE

Guzdial
Rose



Squeak

Open Personal Computing
and Multimedia

DYBVIK THE SCHEME PROGRAMMING LANGUAGE ANSI SCHEME

SECOND
EDITION



Nelson

Systems Programming with **Modula-3**



Learning Python

Lutz & Ascher



THIRD EDITION

Programming Perl

Wall,
Christiansen
& O'Reart



Miranda

The Craft of
Functional
Programming

Thompson

ULLMAN

ELEMENTS OF ML PROGRAMMING

ML97 EDITION



The Little MLer

Felleisen and Friedman



The Java™ Programming Language
Second Edition

Arnold
Gosling



Apple
PRESS



The Dylan
Reference Manual

Shalit

Addison
Wesley

STROUSTRUP



THE C++ PROGRAMMING LANGUAGE

THIRD
EDITION

KERNIGHAN • RITCHIE

THE C PROGRAMMING LANGUAGE

SECOND EDITION



ldman

Software Construction
and Data Structures with

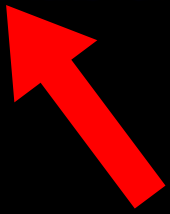
Ada 95



ADDISON
WESLEY


```
#!/usr/bin/python
# Copyright (C) 2013 Andrea Colangelo <warpl0@ubuntu.com>
# Released under the terms of GNU GPL (see: http://www.gnu.org/licenses/gpl-3.0.txt)
```

```
import sys
import math
```



```
class Equation():
    def __init__(self, a, b, c):
        self.a, self.b, self.c = a, b, c
        self.delta = self.__calculate_delta()

    def __calculate_delta(self):
        return (self.b ** 2) - (4 * self.a * self.c)

    def solve(self):
        if self.delta < 0:
            print "No real solutions."
        elif self.delta == 0:
            print "Two coincident solutions: ", str(-self.b / (2 * self.a))
        else:
            sqrd_delta = math.sqrt(self.delta)
            print "First real solution: ", str((-self.b + sqrd_delta) / (2 * self.a))
            print "Second real solution: ", str((-self.b - sqrd_delta) / (2 * self.a))

if __name__ == "__main__":
    try:
        a, b, c = sys.argv[1:4]
        a, b, c = float(a), float(b), float(c)
    except:
        print "Three numerical coefficients required. Aborting.", sys.exit()
    equation = Equation(a, b, c)
    equation.solve()
```




Mele

VS

Idee



Richard
STALLMAN



COS'È IL SOFTWARE LIBERO?

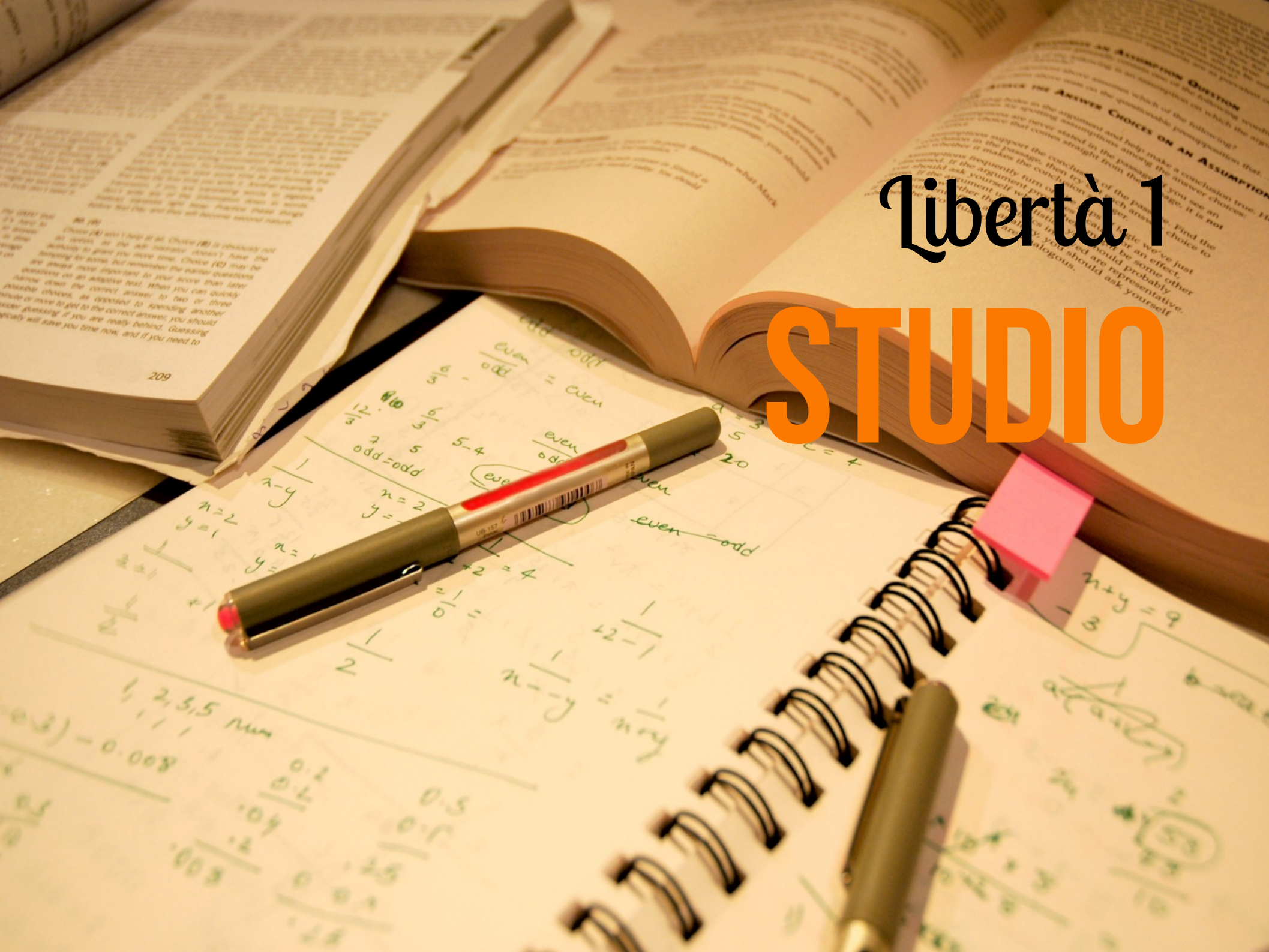
A young child with curly hair is looking at a laptop screen. The child is positioned in the upper half of the frame, looking down at the laptop which occupies the lower half. The background is blurred, showing a patterned surface. The text 'Libertà 0' is overlaid on the left side of the image.

Libertà 0

UTILIZZO

Libertà 1

STUDIO





Libertà 2

COPIA



Libertà 3

MODIFICA

COS'È IL SOFTWARE LIBERO?

(versione semplificata)

LO USO

come mi pare

LO MODIFICO

come mi pare

LO COPIO

a chi mi pare

LO COPIO

a chi mi pare

...anche modificato!

Libero è
BELLO





Libero è

VANTAGGIOSO

A CHE SERVE IL SOFTWARE LIBERO?

A non

BESTEMMIARE

A tenere lontani gli
SCOCCIATORI



A non

AMMALARSI



A fare
SOLD!





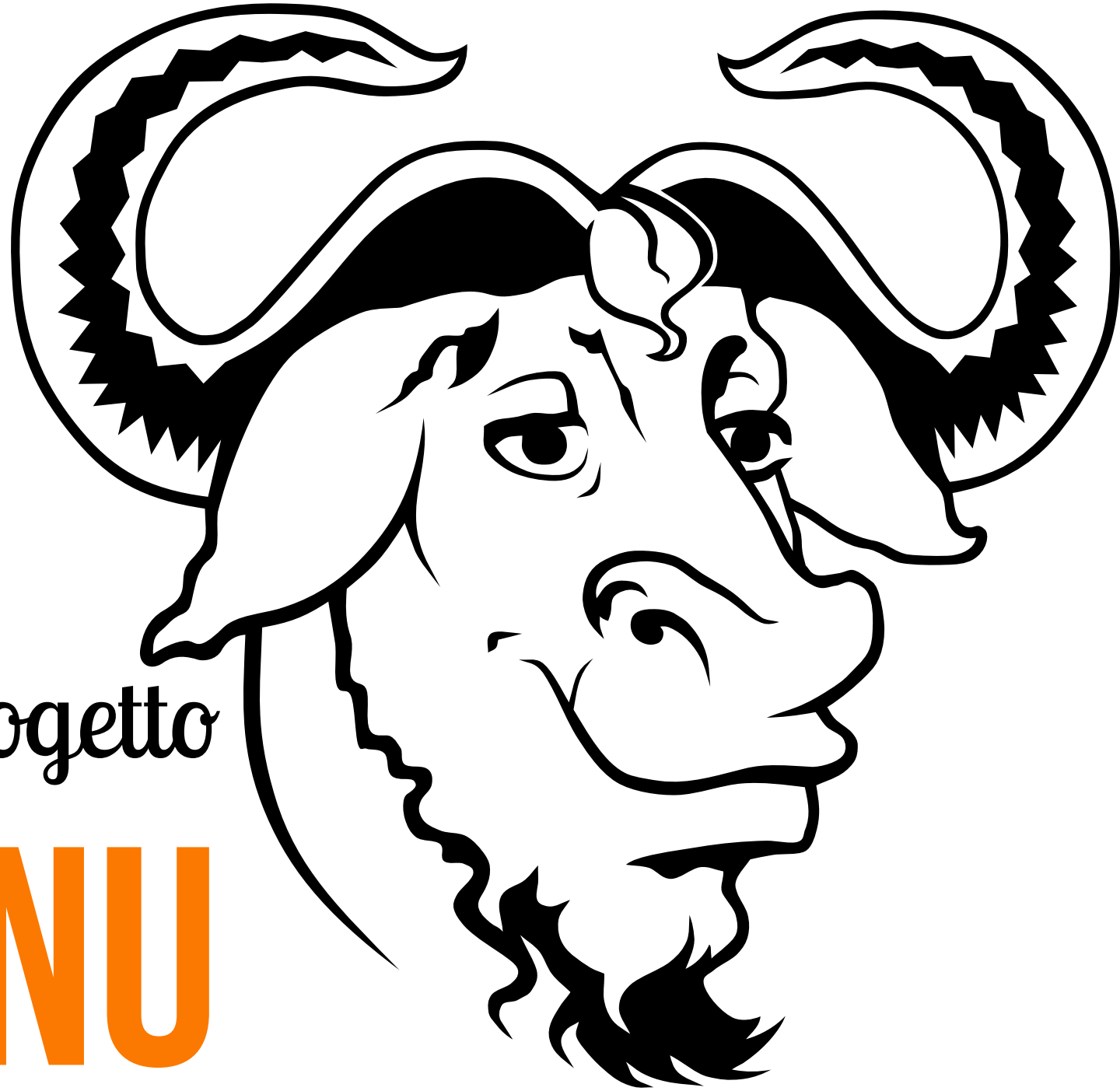
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Main Campus DR
Centennial Campus 800
1800





1.130.000.000 \$

COS'È LINUX?



1983: il progetto

GNU



Sistema operativo...
Kernel...

CHE?

Sistemi operativi

FAMOSI



KERNEL





Linus

TORVALDS

comp.os.minix

Message from discussion [What would you like to see most in minix?](#)

Linus Benedict Torvalds [View profile](#)

[More options](#) Aug 26 1991, 2:12 am

Hello everybody out there using minix -

I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things).

I've currently ported bash(1.08) and gcc(1.40), and things seem to work. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-)

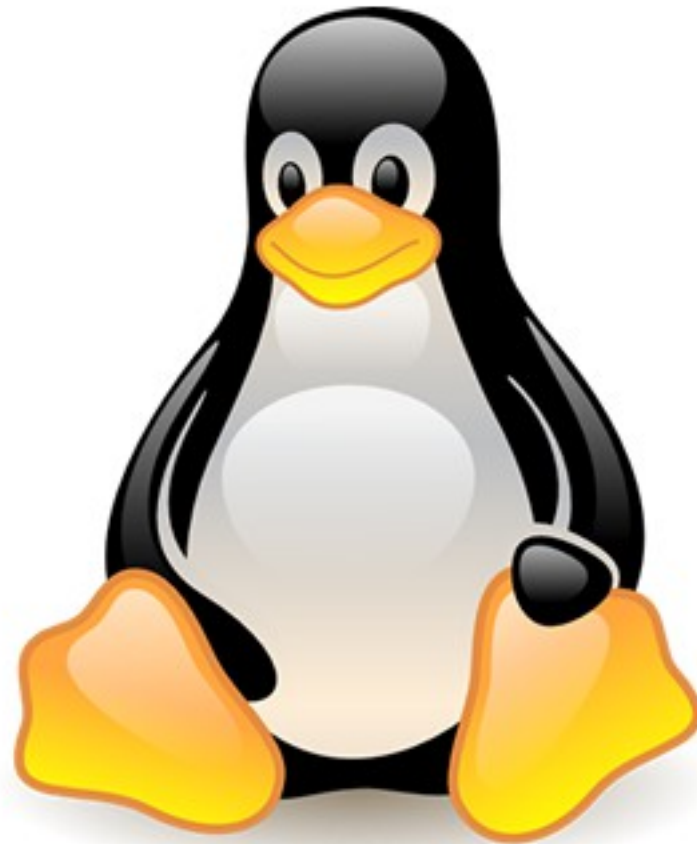
Linus (torva...@kruuna.helsinki.fi)

PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT protable (uses 386 task switching etc), and it probably never will support anything other than AT-harddisks, as that's all I have :-).

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GNU/Linux



DISTRIBUZIONI

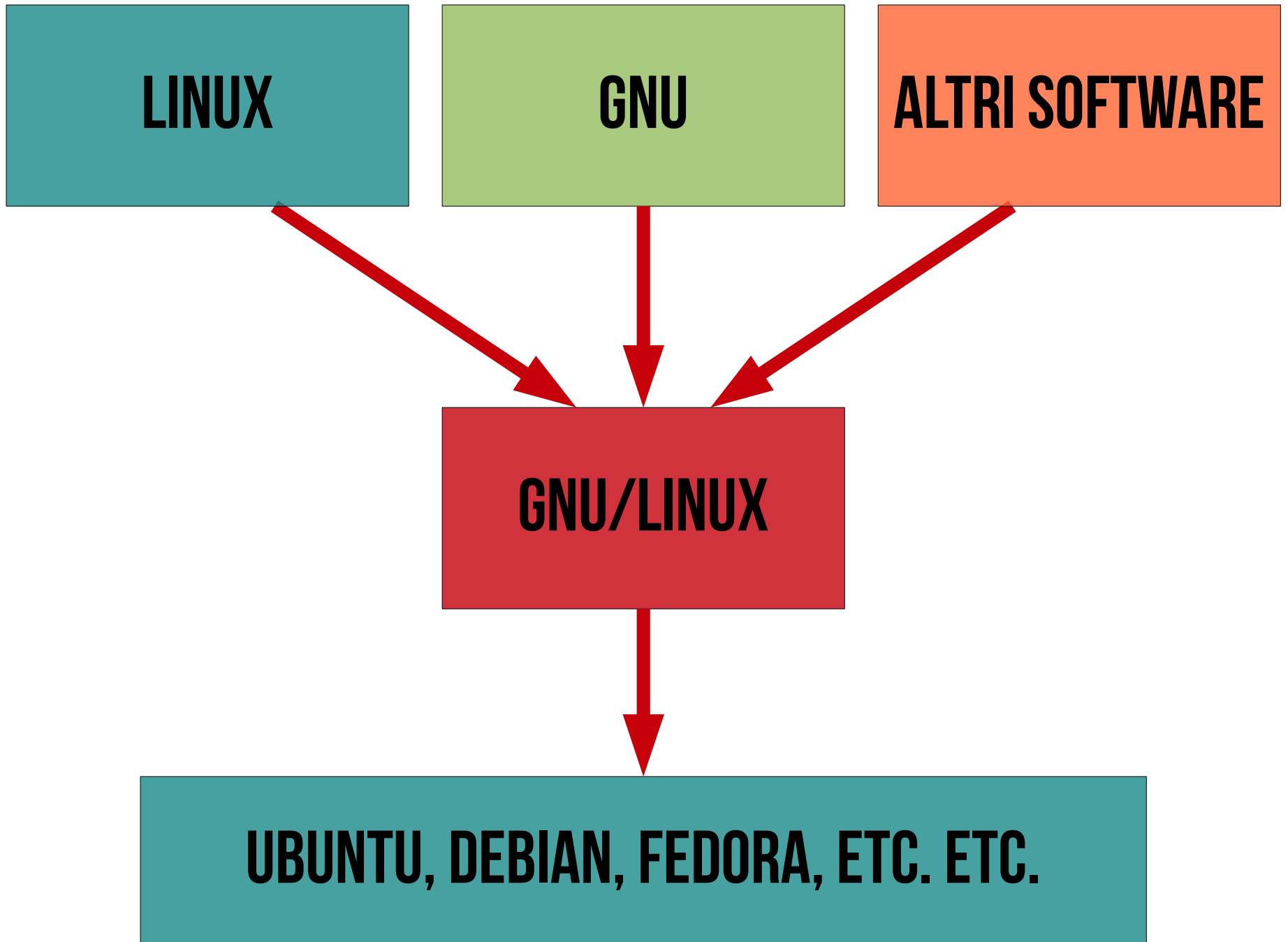
LINUX

GNU

ALTRI SOFTWARE

GNU/LINUX

UBUNTU, DEBIAN, FEDORA, ETC. ETC.



COSA CI SI FA CON IL SOFTWARE LIBERO?

Ci si fanno i

TELEFONINI





...e i

TELEVISORI

... e tanta altra roba

ELETTRONICA





Ci si fanno i

VIDEOGIOCHI



Ci si fanno i

FILM

WIKIPEDIA

English

The Free Encyclopedia

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La enciclopedia libre

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1 633 000+ Artikel

Polski

Wolna encyklopedia

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English



Ci si fanno le

ENCICLOPEDIA



examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen' [more examples...](#) [Where am I?](#)

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SCHEME

**Grouchery says:**

I never forget a face, but in your case I'll be glad to make an exception. (Groucho Marx)

Grouchery Configuration

Fortunes Options

Available fortunes:

If I held you any closer I would be on the other side of you. (Groucho Marx)
Before I speak, I have something important to say. (Groucho Marx)
I worked my way up from nothing to a state of extreme poverty. (Groucho Marx)
The secret of life is honesty and fair dealing. If you can fake that, you've got it made. (Groucho Marx)
I refuse to join any club that would have me as a member. (Groucho Marx)
I have had a perfectly wonderful evening, but this wasn't it. (Groucho Marx)
Behind every successful man is a woman, behind her is his wife. (Groucho Marx)
I must say I find television very educational. The minute somebody turns it on, I go to the library and
Anyone who says he can see through women is missing a lot. (Groucho Marx)
Well, Art is Art, isn't it? Still, on the other hand, water is water. And east is east and west is west and
I'm not feeling very well - I need a doctor immediately. Ring the nearest golf course. (Groucho Marx)

Remove

Add

Load from file

Annulla

Salva



Ci si fanno i
TRENI

A close-up, over-the-shoulder view of an air traffic controller wearing a headset and using a magnifying glass to inspect a circular radar display. The display shows green radar returns and flight paths against a dark background. The controller's hand is visible holding the handle of the magnifying glass. The radar console is filled with various control knobs and switches, some of which are labeled with technical terms like 'RANGE', 'FOCUS', and 'MTI INTERVAL'.

Ci si controllano gli
AEREI

Ci si costruisce

INTERNET

THE INTERNET

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A photograph of a submarine surfacing in the ocean. The conning tower and part of the hull are visible above the water, creating a large, white wake. The water is a deep blue. The text "Ci si fa la" is written in a black, serif font in the upper right corner.

Ci si fa la

GUERRA





Ci si fa la

PACE

nepal: children down every path ↑

← next story →



Ci si capisce

L'UNIVERSO



Ci si costruisce il

IL SUPERCOMPUTER

più potente del mondo



FREE
software

FREE
society