

Introduzione al software

LIBERO

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LINUX DAY EDUCATIONAL, IPSIA FERMO — 19 OTTOBRE 2013

COS'È L'INFORMATICA?

The background of the image is a chalkboard filled with handwritten mathematical formulas in white chalk. The formulas are somewhat blurry and include various mathematical symbols such as summation signs (\sum), subscripts (i), and parentheses. Some visible fragments include $\sum_{i=1}^n$, (x_i) , and (x_i) . The overall tone is educational and academic.

Una branca della
MATEMATICA



...che studia la

INFORMAZIONE

...e lo fa con il

SOFTWARE

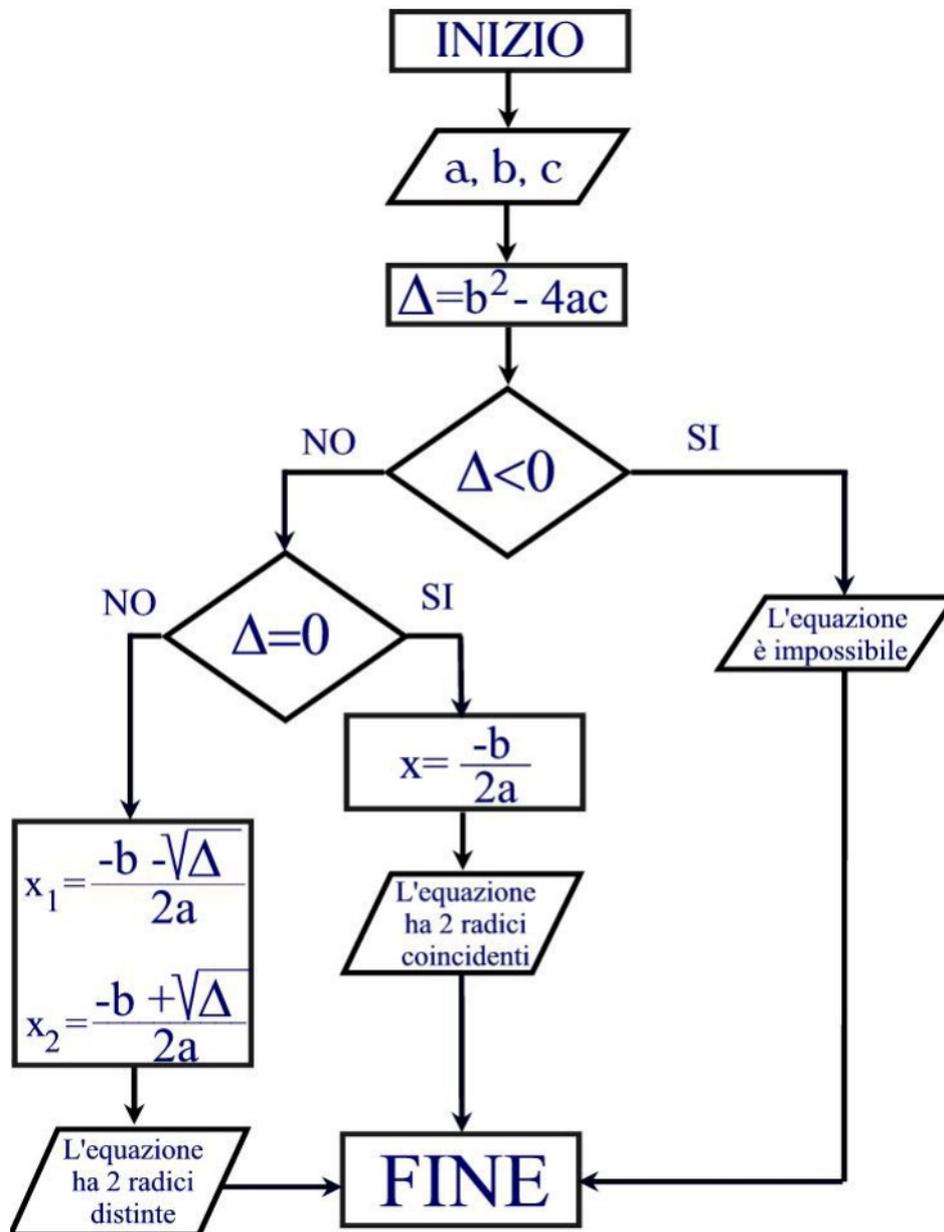
COS'È IL SOFTWARE?

HARDWARE

è tutto quello che puoi prendere a calci.

SOFTWARE

è tutto quello che puoi solo maledire.



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

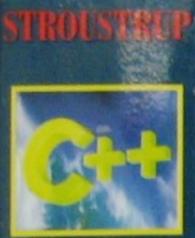
Arnold
Gosling



The Dylan
Reference Manual

Shalit

Addison
Wesley



THE C++ PROGRAMMING LANGUAGE

THIRD EDITION

KERNIGHAN • RITCHIE

THE C PROGRAMMING LANGUAGE

SECOND EDITION

Software Construction

and Data Structures with

Ada 95

ADDISON
WESLEY

```
#!/usr/bin/python
# Copyright (C) 2013 Andrea Colangelo <warp10@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 intently at a laptop screen. The child's face is the central focus, with their eyes wide and focused on the screen. The background is softly blurred, showing what appears to be a patterned surface, possibly a bed or a rug. The lighting is warm and natural, highlighting the child's features.

Libertà 0

UTILIZZO



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

flow file record generated
deleted columns added
CHKDZK is verified file

warnings will now check
that log continues
may cause the disk size
one of log disks needs

log file is 02.
the type of the file size
checking file system on

A tenere lontani gli
SCOCCIATORI

A first-person perspective shot looking down at a doormat. The mat is rectangular with a dark brown border and a lighter brown center. In the center, the words "OH SHIT NOT" are written in a bold, sans-serif font on the top line, and "YOU AGAIN" is written on the bottom line. A pair of feet wearing white sneakers is visible at the bottom of the frame, standing on the mat. The mat is placed on a dark blue carpet. To the right, a white umbrella is leaning against a door frame. The door is white with a dark brown frame. The overall scene is indoors, likely at the entrance of a home or office.

OH SHIT NOT
YOU AGAIN

A non

AMMALARSI



A fare

SOLDI



DR
Main Campus DR
Centennial Campus 800
1800



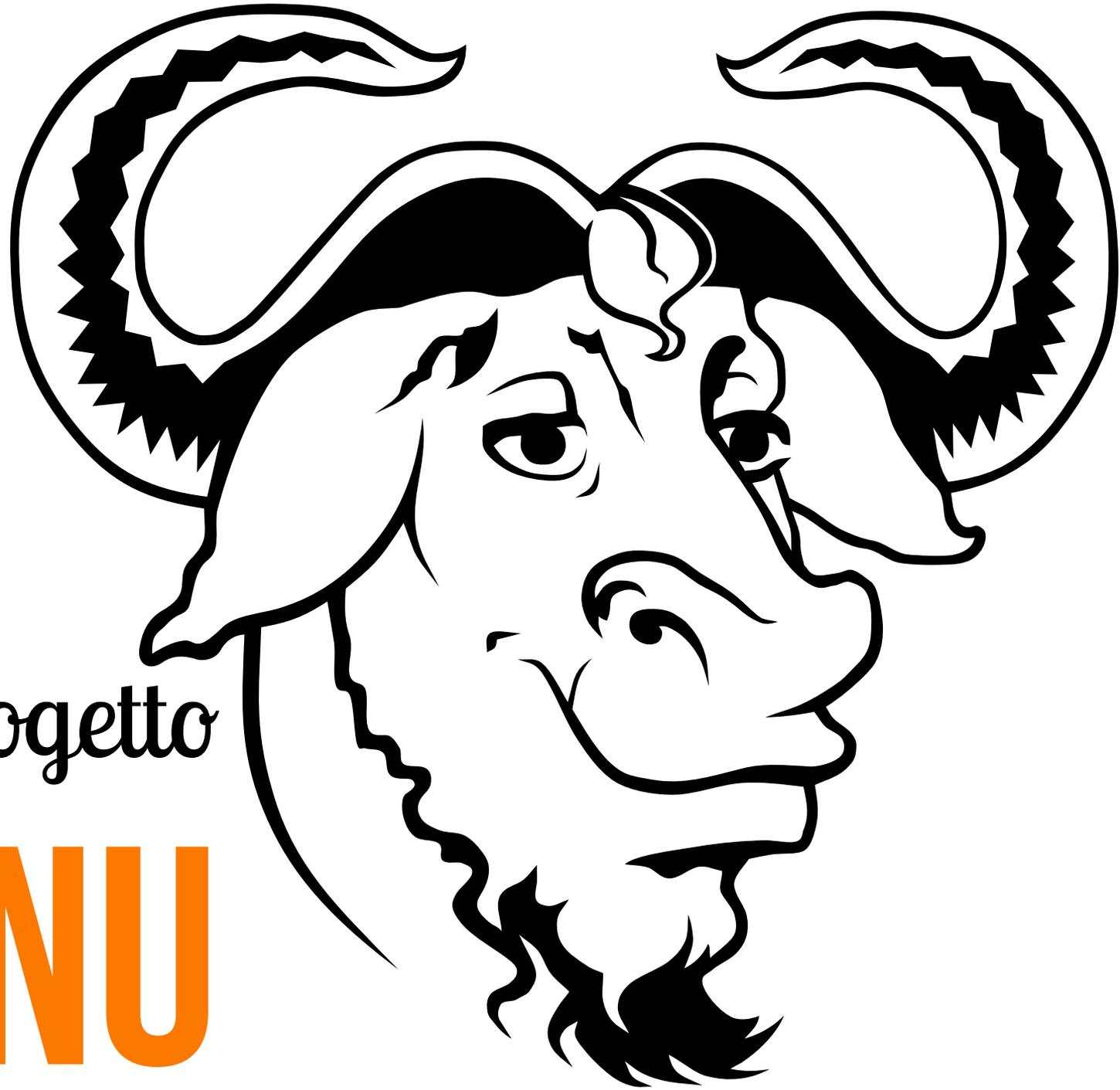


1.130.000.000 \$

A diventare
FAMOSI



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 :-)

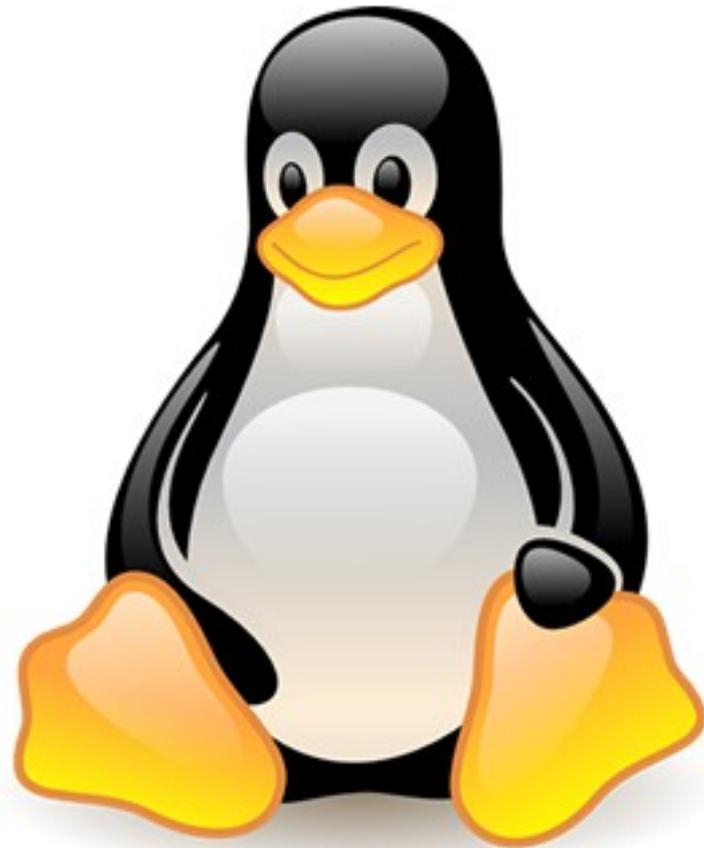
Linus (torva...@kruuna.helsinki.fi)

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

COSA CI SI FA CON IL SOFTWARE LIBERO?

Ci si fanno i

TELEFONINI





...ei

TELEVISORI



... e tanta altra roba

ELETRONICA



Ci si fa la

SPESA





Ci si fanno i

VIDEOGIOCHI



Ci si fanno i

FILM

WIKIPEDIA

English

The Free Encyclopedia

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English



Ci si fanno le

ENCICLOPEDIA

View Edit History



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Fermo

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

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GEOGRAFICHE





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The Document Foundation

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Ci si fanno cose

SCEME

**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



Ci si fanno un mucchio di

SOLDI



Ci si controllano gli

AEREI



Ci si costruisce

INTERNET

THE INTERNET

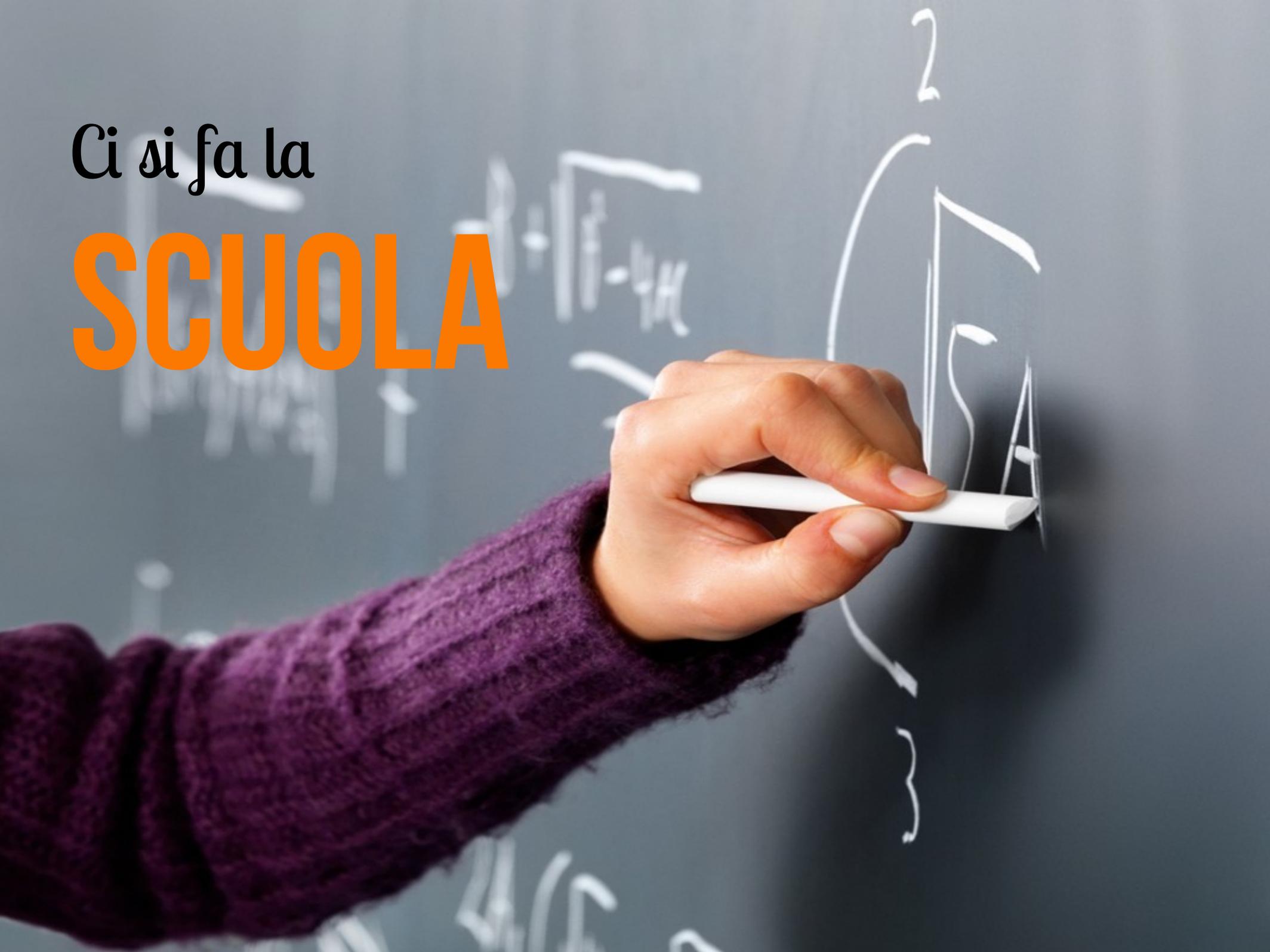
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facebook®

amazon.com®

Ci si fa la

SCUOLA





Parley

File View Settings Help



Full Screen



Stop Practice

Lesson: misc jobs

work, job, effort
el trabajo

Answer Later

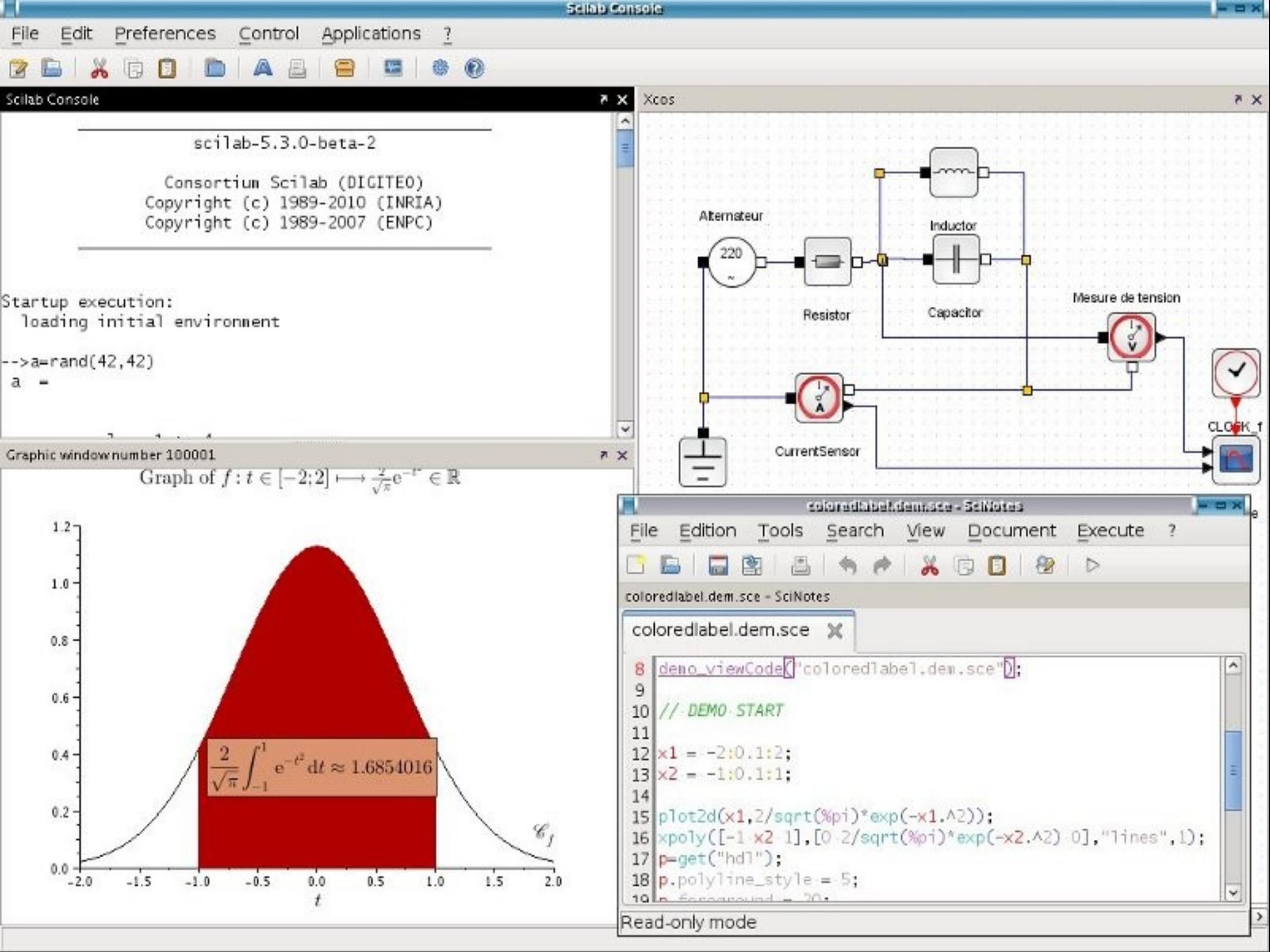
Hint

I did not know it

I knew it



2/1135



A photograph of a submarine surfacing in the ocean. The submarine's conning tower and deck are visible, with several crew members on top. The water is dark blue, and white foam is being churned up by the submarine's movement. The text 'Ci si fa la GUERRA' is overlaid on the right side of the image.

Ci si fa la

GUERRA



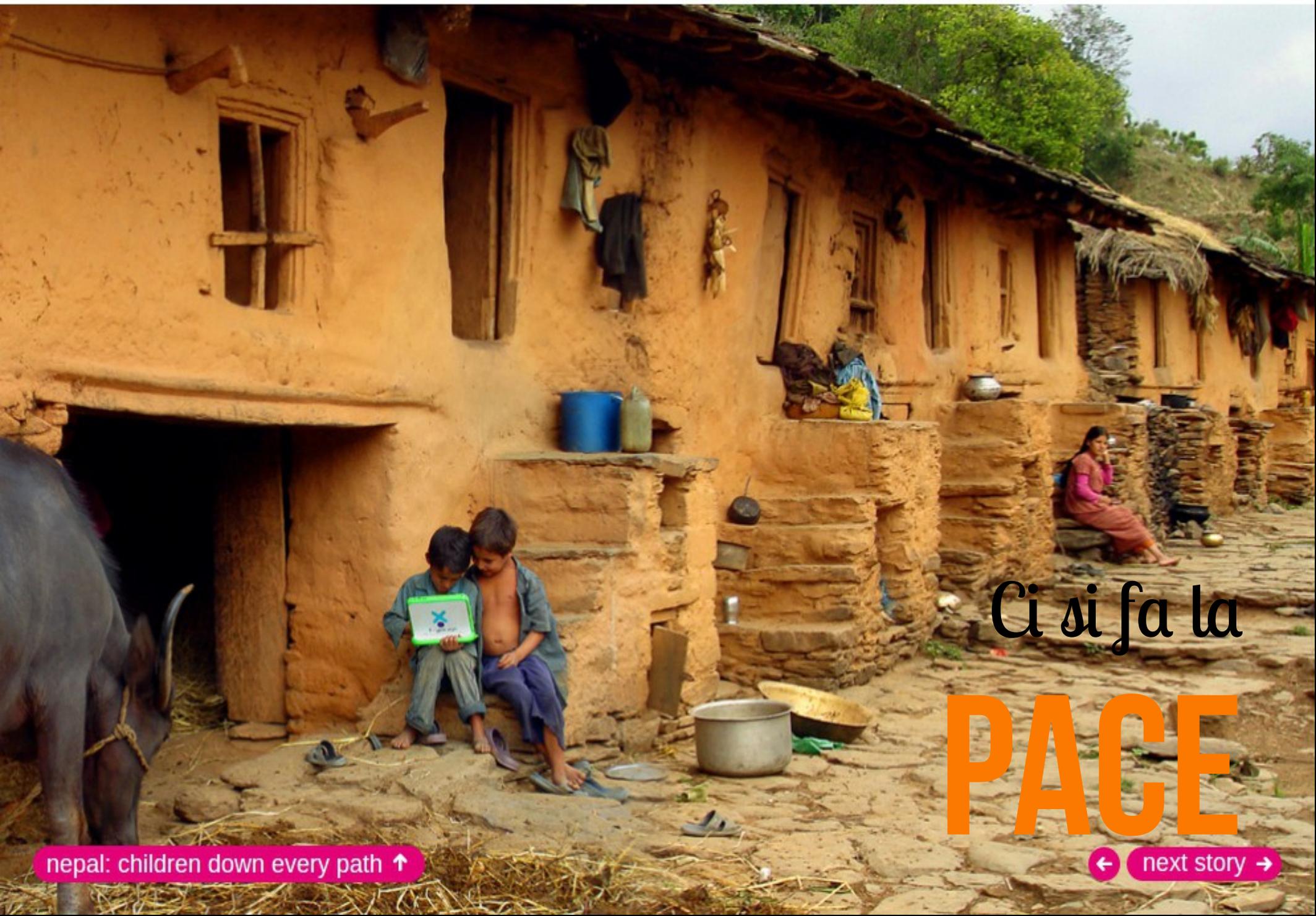
NORTHROP GRUMMAN



DO NOT
PUSH

BB

NORTHROP GRUMMAN



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



I 10 SUPERCOMPUTER

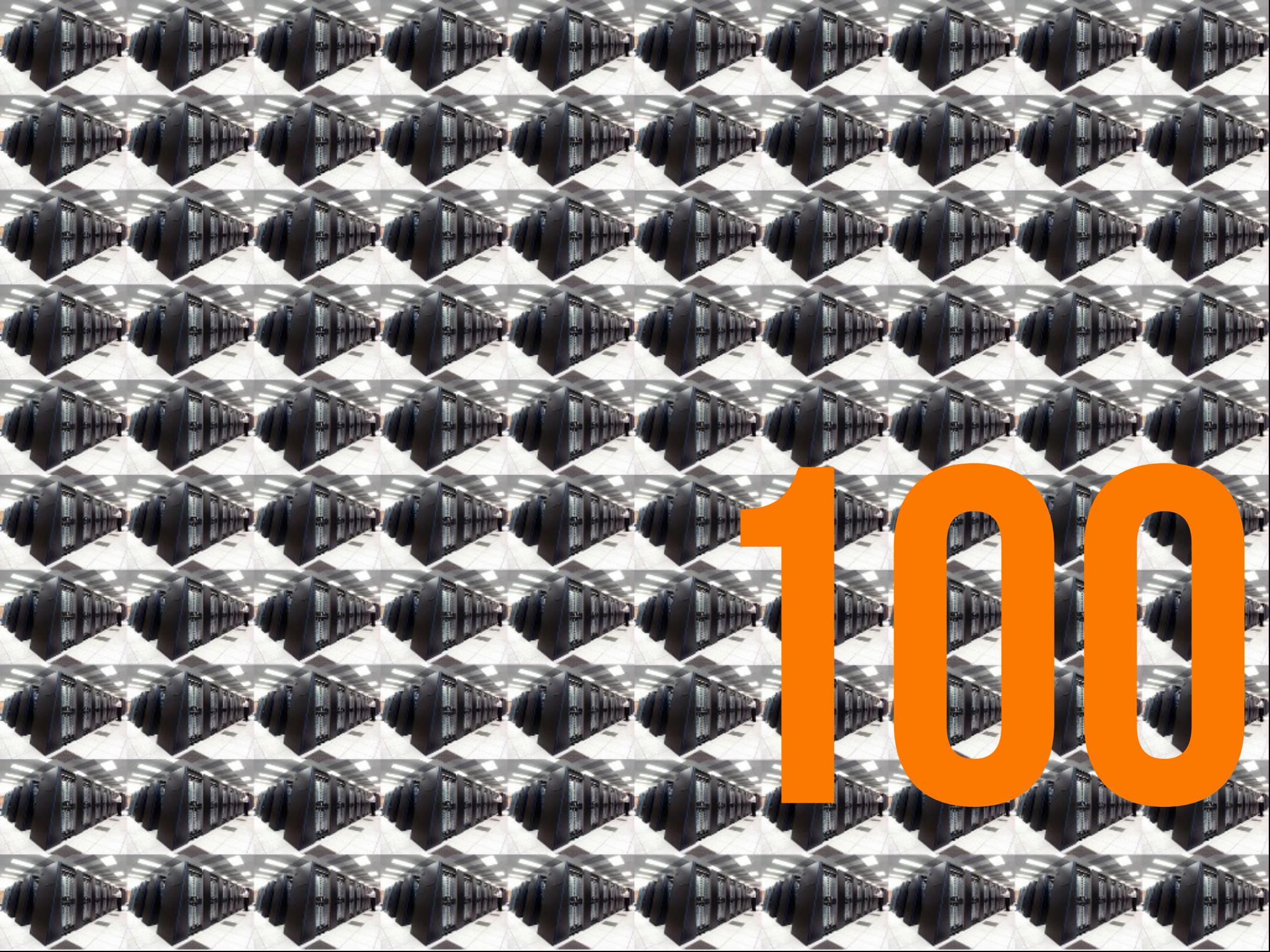
più potenti del mondo



I 20 SUPERCOMPUTER...



150...



100

150

vabbè, quasi tutti i

SUPERCOMPUTER

più potenti del mondo

FREE
software

FREE
society





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