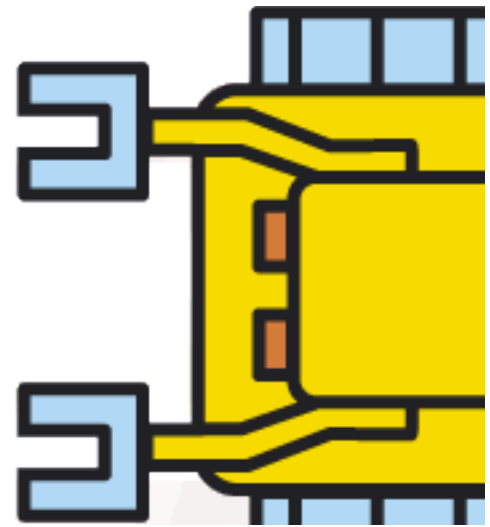
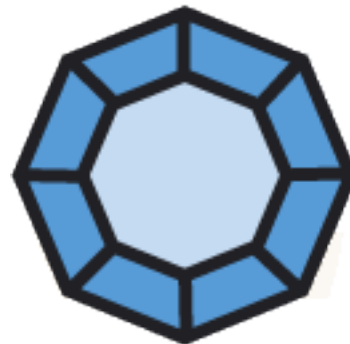


Psst... do you know that
NCLab Team is hiring?

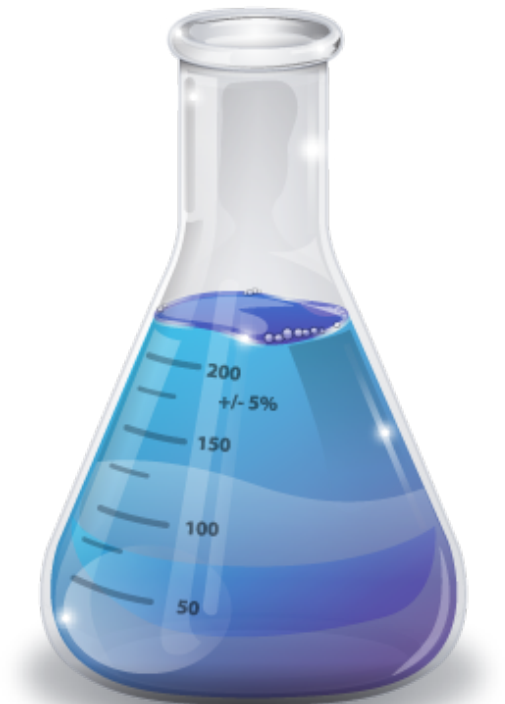


SCIENCE!



Science is fun!

- Kids **should** learn math and algorithmic thinking
- It is a very important for **everybody**
- Computer Science helps developing those skills
- The learning curve is steep though...
... so we need self-paced courses!



Obama already knows...

- ...that computer science is not only for nerds!

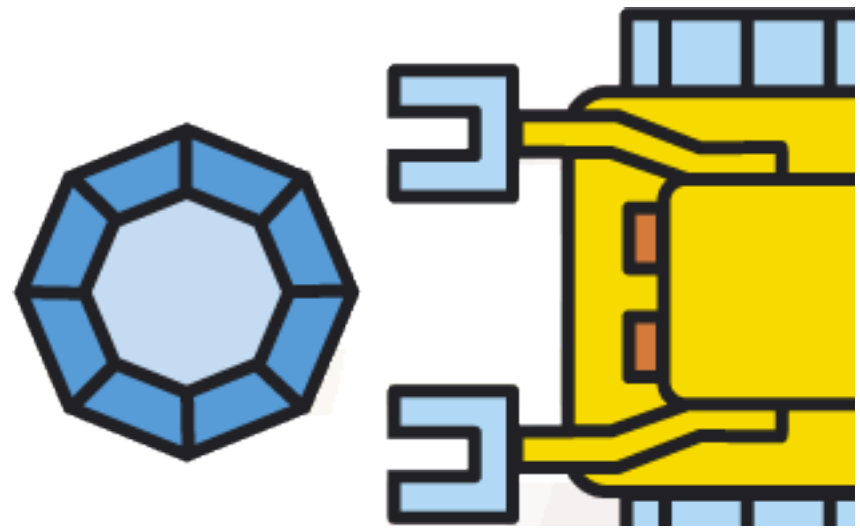
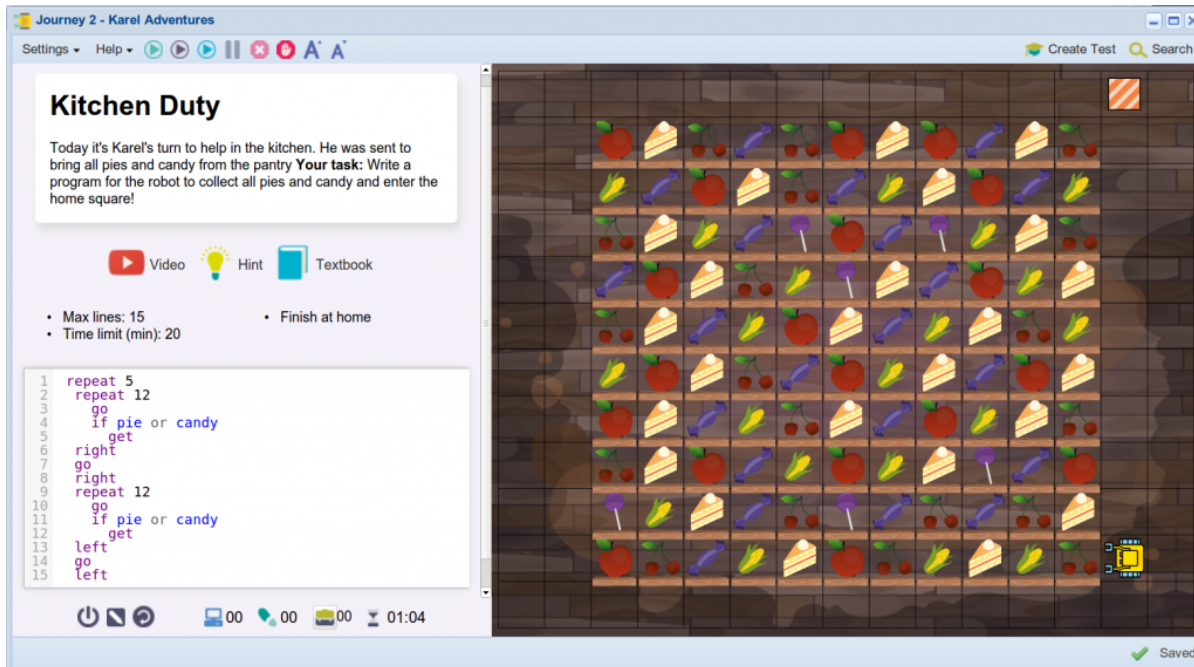


President Obama asks America to learn computer science
<https://www.youtube.com/watch?v=6XvmhE1J9PY&noredirect=1>

Karel

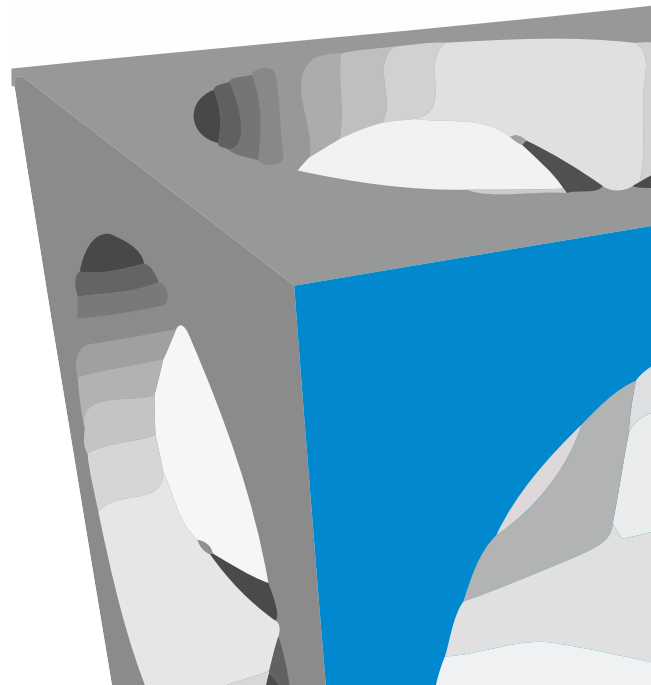
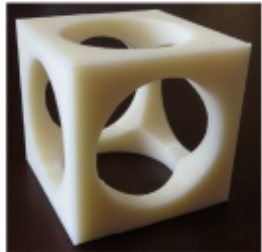
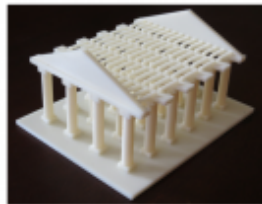
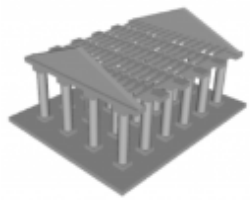
Computer Science :)

- A language which helps developing the basic CS skills
- Simplified, so that kids don't struggle with irrelevant things like brackets etc.
- Enjoyable, play a game – make your brain bigger!



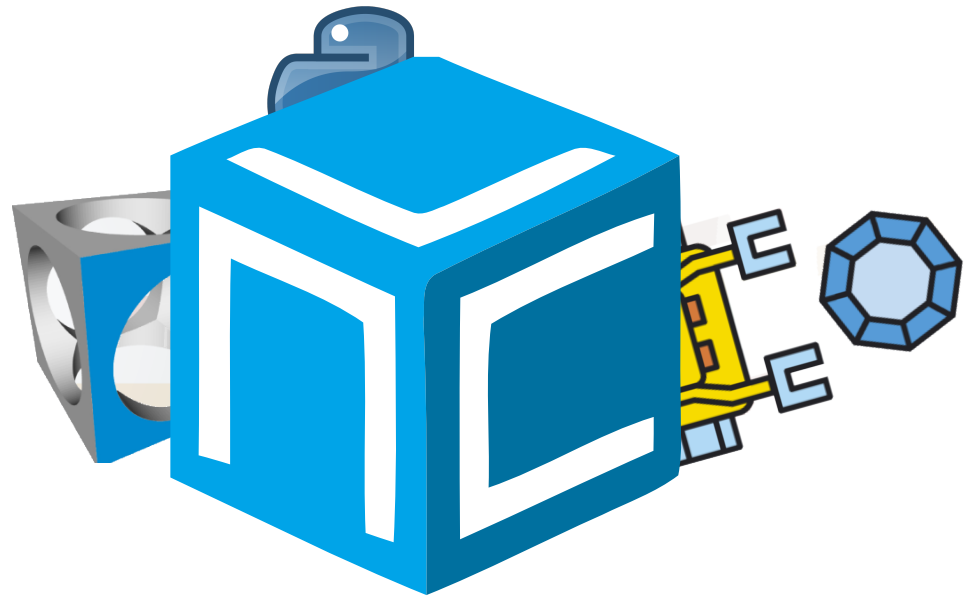
PLaSM

- Improve your spatial awareness
- Design stuff and make it real – print it in 3D
- This can make you an engineer!



Not a course, a **platform**

- You have mastered Karel? What's next?
- Learn Python
- Learn Computer Aided Design and Constructed Solid Geometry
- Learn Computing



What we need from you

Motivation



JavaScript Developer
(Ext JS 4)



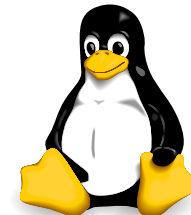
Tester
(Unit Testing, Siesta)



Python Developer
(Object-Oriented Programming)



Database Manager
(MongoDB)



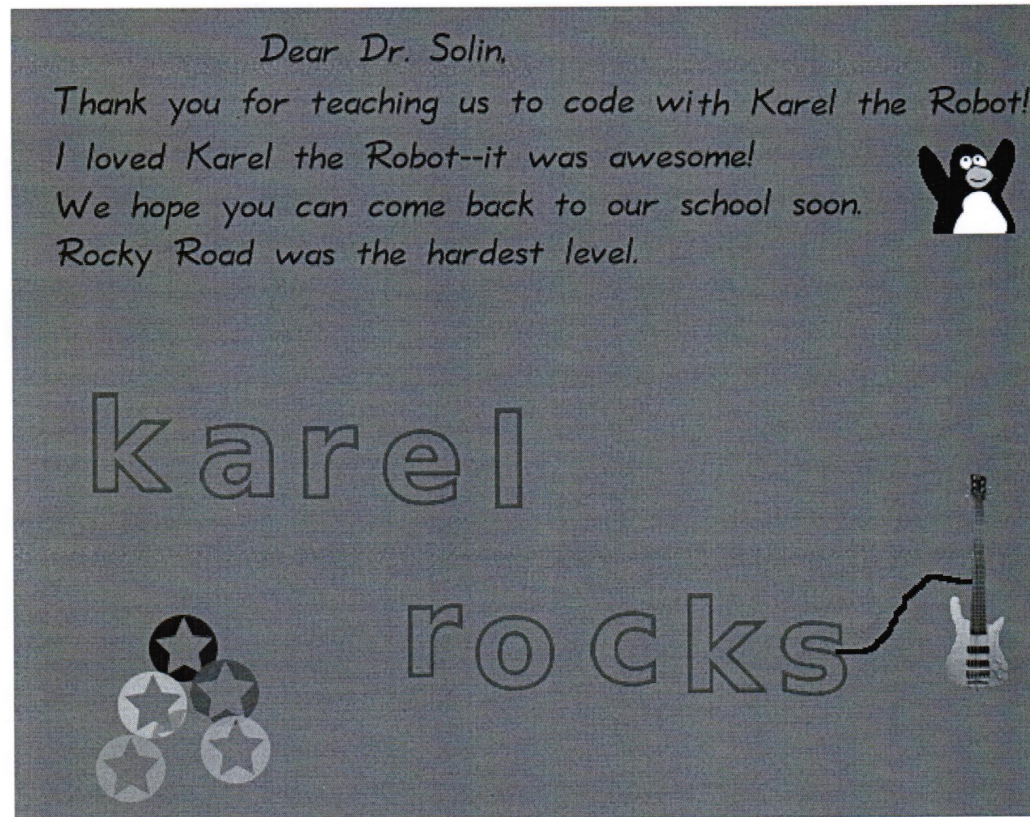
Server Administrator
(Linux, Bash)



Web Developer
(HTML, CSS, jQuery, WordPress)

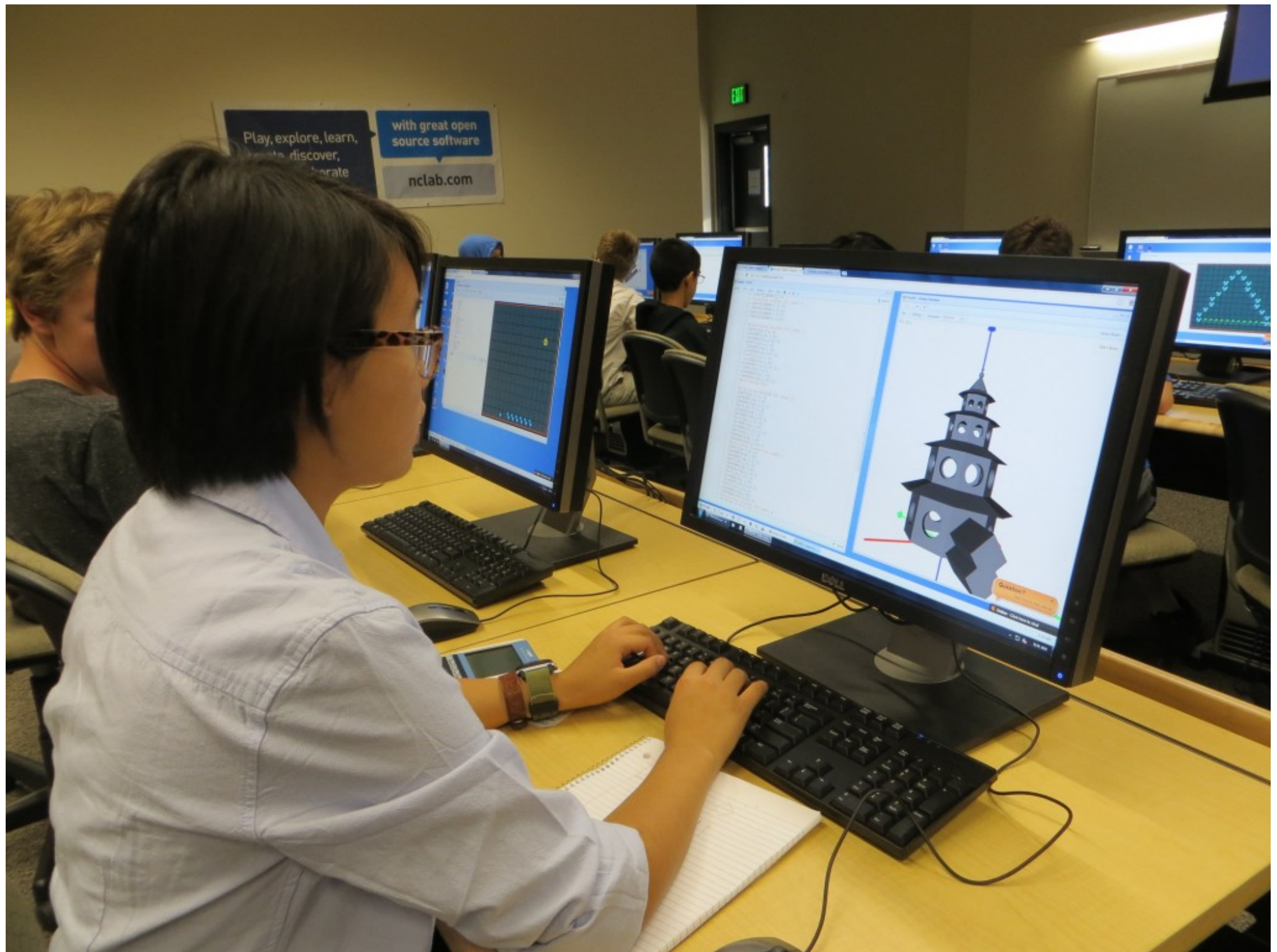
What you can expect

- ✓ Being an **important** part of a team of **very** smart guys
- ✓ Non-trivial challenges (this is not yet-another-CMS!)
- ✓ Working remotely with regular Skype meetings



Heartwarming
letters









About NCLab Team

- Based in Reno/Nevada, USA
- Started by Pavel Solin
- Team from the Czech Republic, Poland and USA
- Company has grown rapidly in the last three years
- It's in the timezone -8h of Warsaw/Prague

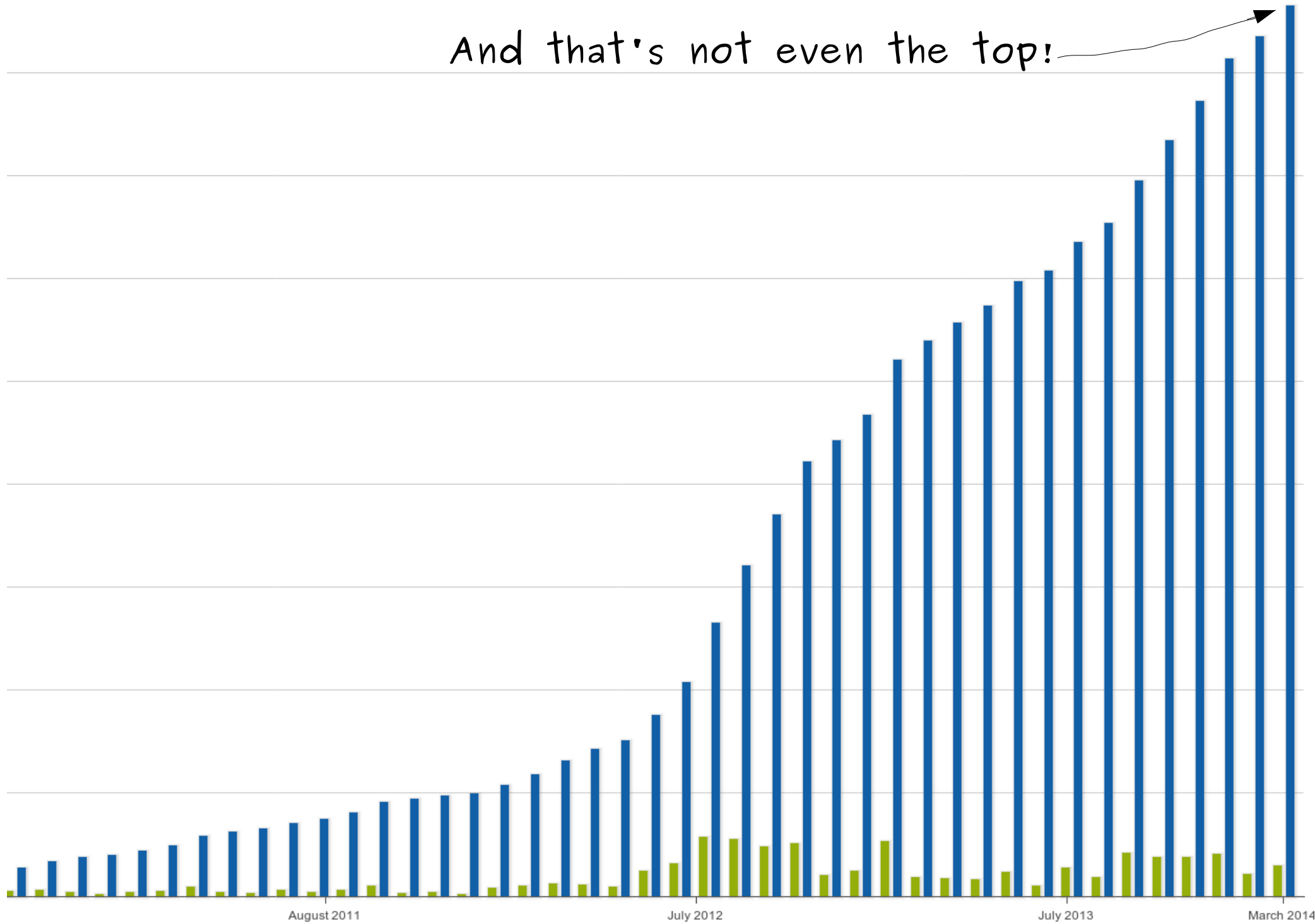


Reno in the game Fallout



Reno in the reality

And that's not even the top!



FEM antenna model verified against measurements

Bartosz Chaber*, Jacek Starzyński*

*Faculty of Electrical Engineering, Warsaw University of Technology, Koszykowa 75, Warsaw, Poland, e-mail: chaberb@iem.pw.edu.pl

Abstract This article is a continuation of work on adequate numerical model for E-field antenna EFG-3B used so far the model built using Method of Moments has been described [2]. Authors' main goal is to verify results from COMSOL Multiphysics environment against measurements. To simulate anechoic chamber Perfectly Matched Layer (PML) had been used.

Keywords EFG, FEM, antenna, COMSOL, PML

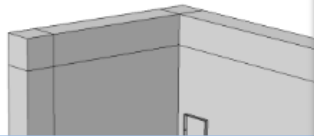
I. INTRODUCTION

Antennas analysis described in this paper had been used to examine an EFG-3B antenna working as a part of system for EMC testing. Authors have conducted series of numerical experiments to extract influence of different simulation parameters on final result's quality. In order to gain more confidence in those results, different methods of such analysis had been used.

Following sections describe briefly different approaches that authors had taken while creating the most appropriate model. In their work authors had examined influence of shunts, floor and type of PML on result's quality. Preliminary summary can be found in Section IV. In our research

III. CARTESIAN PML SIMULATION

Authors wanted to test how cartesian PML affects results of the analysis. Numerical antenna model was enclosed in cuboid resembling in dimension anechoic chamber used for reference measurements (should be noted that both models are not taking into account of any symmetry).



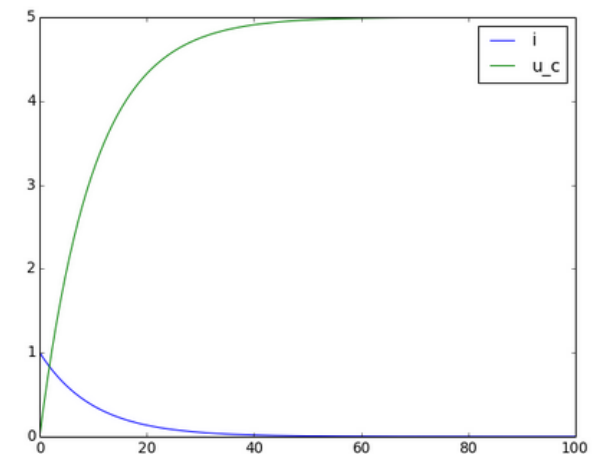
```
53 % note positions of commas and nonbreaking spaces ( ~ ) LaTeX will not
54 % a structure at a ~ so this keeps an author's name from being broken
55 % two lines.
56 % use \thanks{} to gain access to the first footnote area
57 % a separate \thanks must be used for each paragraph as LaTeX2e's \thanks
58 % was not built to handle multiple paragraphs
59 %
60 %
61 \author{\large{Bartosz~Chaber\IEEEauthorrefmark{1}}, Jacek~Starzy\~nski}
62 \vspace{0.3cm} \small{
63 \IEEEauthorblockA{\IEEEauthorrefmark{1}Faculty of Electrical Engineering
64 e-mail: chaberb@iem.pw.edu.pl}}% <-this % stops a space
65 }
66 %
67 %
68 % these prevent an unwanted space from occurring between the last author name
69 % and the end of the author line. i.e., if you had this:
70 %
71 % \author{...lastname \thanks{...} \thanks{...}}
72 %
73 % ^-----^-----^-----Do not want these spaces!
```

My files

File Folder Home folder / my files / cpee-efg

Title	File size	File type
amtee2013	8.2 KB	LaTeX
amtee2013	143.8 KB	PDF document
cpeeamtee2013	196.5 KB	LaTeX Class File
digest	7.1 KB	LaTeX
digest	111.7 KB	PDF document
digest.aux	885 bytes	Unknown type
digest.log	13.4 KB	Unknown type
digest.tex.bak	6.9 KB	Unknown type
img	249.2 KB	Folder
momfem-digest	5.2 KB	LaTeX

Python 2 - Output Window








admin


courses





apps

workshops

Untitled Karel - Karel Adventures

File Edit Settings Help Maze      A A



Create Test 

 First steps  Programming  Designer  Games

Staircase

Climb the staircase, collect all gems, and enter the home square!

```
1 # Custom command to
2 # climb one step:
3 def getup
4     left
5     go
6     right
7     go
8
9 # Ascend the stairs
10 # and collect gems:
11 while wall
12     getup
13     if gem
14         get
15
16 # Walk to home square:
17 while not home
18     go
```

 00  00  00





Admin



Courses



Apps



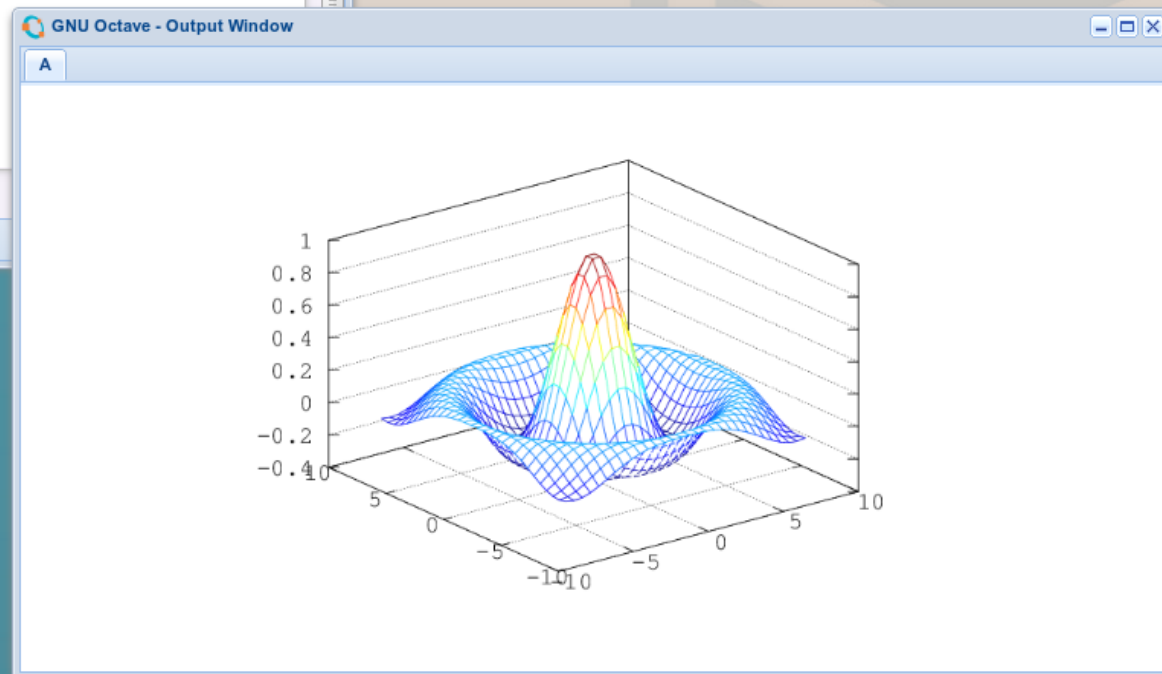
Workshops

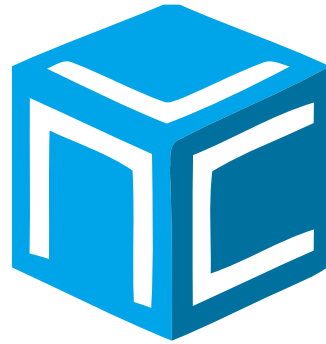
Untitled Octave - GNU Octave

File Edit Settings Help Create Test Search

Octave is a high-level interpreted language, primarily intended for numerical computations. It provides capabilities for the numerical solution of linear and nonlinear problems, and for performing other numerical experiments. The Octave language is **compatible with MATLAB** so that most programs are easily portable. Run the demo program by pressing the green arrow button. The demo program can be turned off in Settings.

```
1 % Plot granularity:
2 n = input("Enter an integer between 10 and 50:");
3 % 1D interval:
4 tx = ty = linspace (-8, 8, n)';
5 % 2D product interval:
6 [xx, yy] = meshgrid (tx, ty);
7 % Define polar radius:
8 r = sqrt (xx.^ 2 + yy.^ 2);
9 % Define function:
10 tz = sin (r) ./ r;
11 % Plot the function:
12 mesh (tx, ty, tz);
```





Let's make something **epic!**
Spread the news!

<https://nclab.com/jobs/>

