# Using python to teach programming to children

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### Global programming movement

Global emphasis on getting more children, especially girls, into STEM fields

Attempts to promote computer science

Technovation challenge, Girls make games, Girls Who Code, Kids 4 Coding, theCoderSchool, FunTech

### Current approach

Block based programming

Drag and drop

Visually appealing

Example Stencyl, MIT Applnventor, LEGO EV3 Mindstorms

#### **Drawbacks**

- Limited functions and capabilities
- Does not harbor logical thinking
- Learning to use software
- Algorithmic thinking?
- Steep learning curve

# My experience with block based languages

Girls make games

Project lkhtiyar

## Why Python?

Reads just like English

Easy to translate flowcharts and algorithms into code

Powerful

Plenty of libraries and modules

# My experience of using python to teach children

► Teaching Python to students in grades 8 - 11 at Convent and Jesus of Mary

► The classes started last week, hence, this section will be updated closer to the conference