

# "A picture is worth a thousand words"

Can software developers draw pictures?

Lightning Talk: CppCon2020 17 Sep 2020

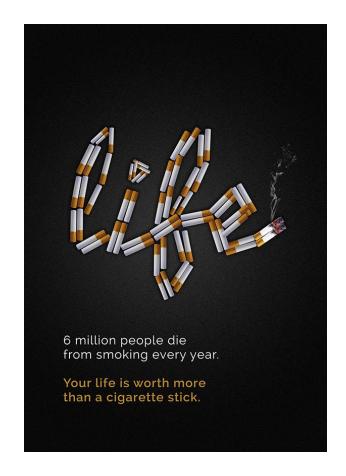
#### **Honey Sukesan**

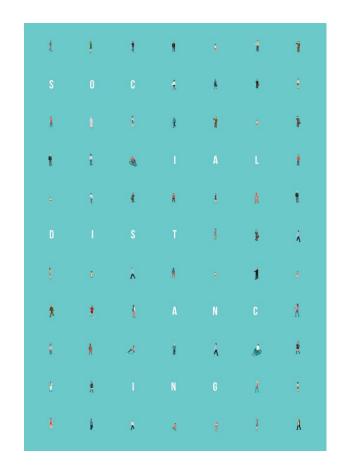
Senior Software Developer
Jaguar Land Rover Ireland Services Ltd

A big "Thank you" to Almighty and all caring people and communities who has helped me, inspired me and still doing so...

#### Disclaimer

All the views, thoughts, and opinions expressed in the presentation belong solely to the presenter, and not necessarily to the presenter's employer, organization, committee or other group or individual.

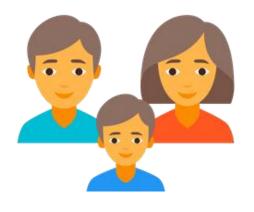






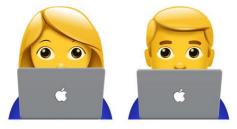
## Who am 1?













# Can software developers draw pictures?





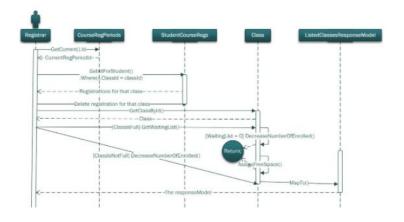
### Is it only me? No... My husband too..

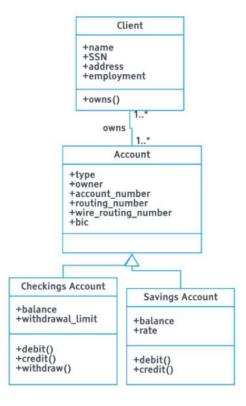




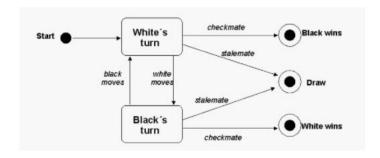
https://www.linkedin.com/in/sambhudayalb/ https://www.artlimerick.com/limerick-artist-sambhu-dayal

### Do we draw pictures at work?

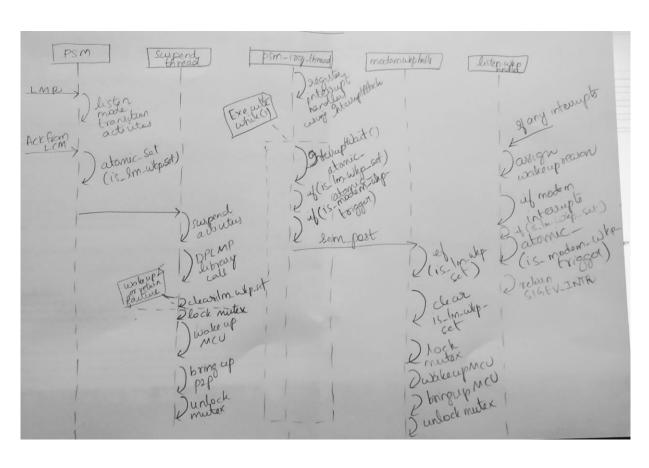


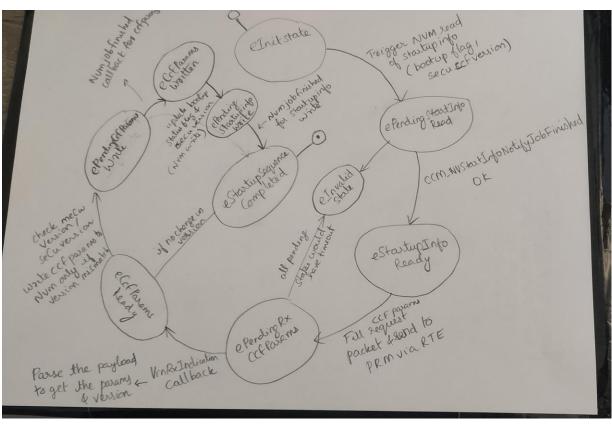


**UML** diagrams



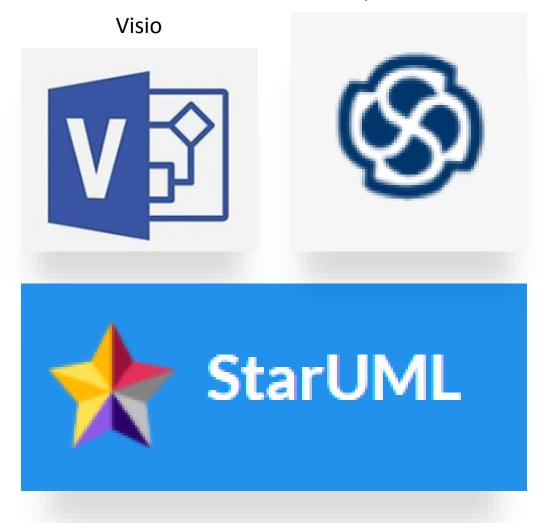
# Some real funny diagrams





#### Enterprise Architect

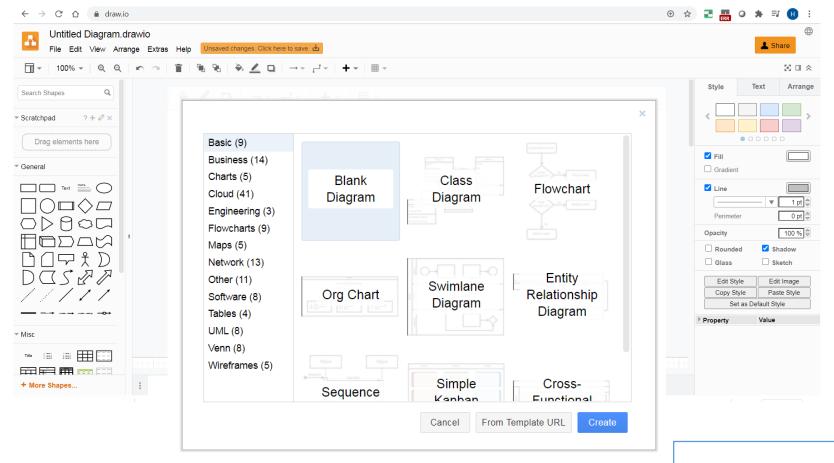
Widely used proprietary tools



## There are some interesting free tools....



https://www.draw.io/

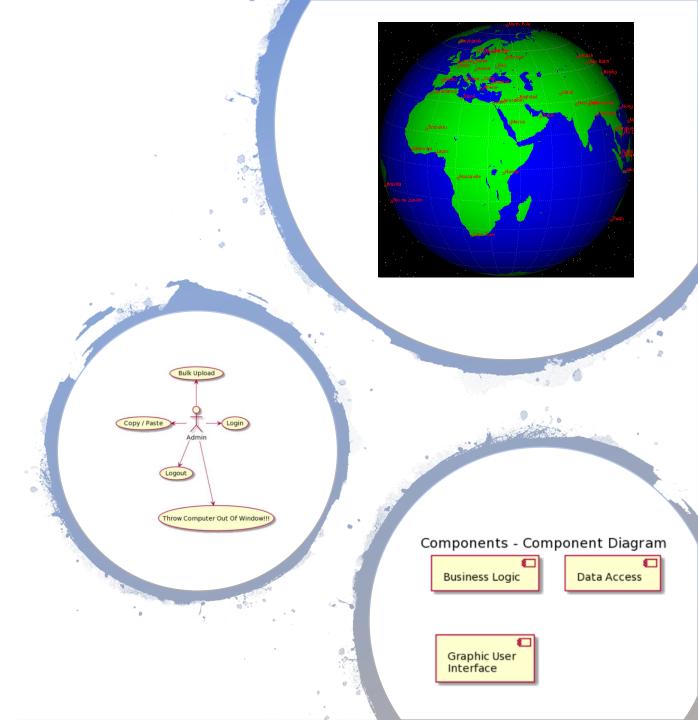


https://github.com/jgraph/drawio-desktop

#### Text to diagram converters

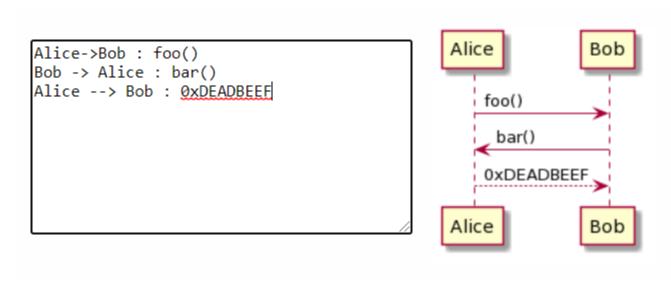
#### PlantUML

- open source tool that converts simple textual descriptions to UML diagrams
- Not only UML diagrams Earth diagram, UI wireframes and more..
- Textual descriptions could be separately stored
- Pictures can be saved in various image formats
   SVG, PNG and so on.
- Integration to CI build systems
- Integration to doxygen doc / markdown doc



http://plantuml.com/guide

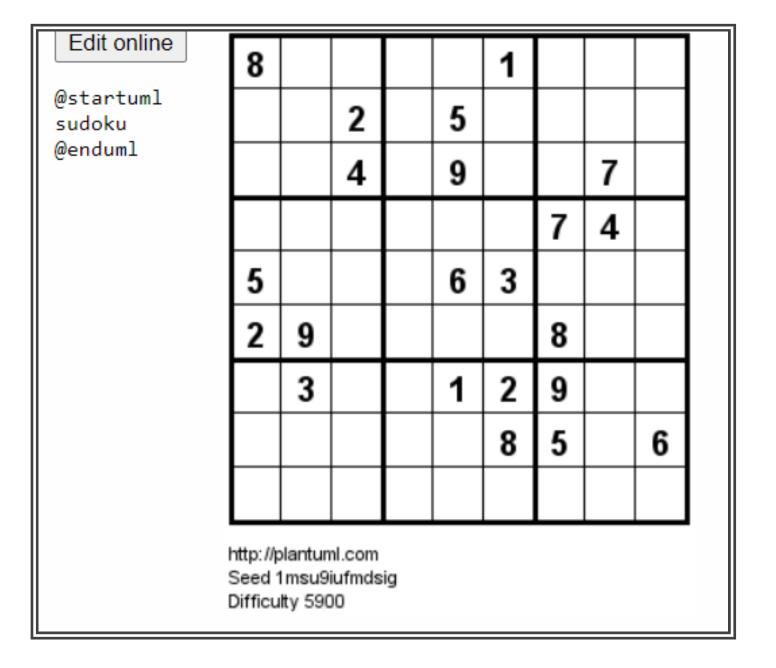
## Three simple lines generate this diagram....





#### Have a break!

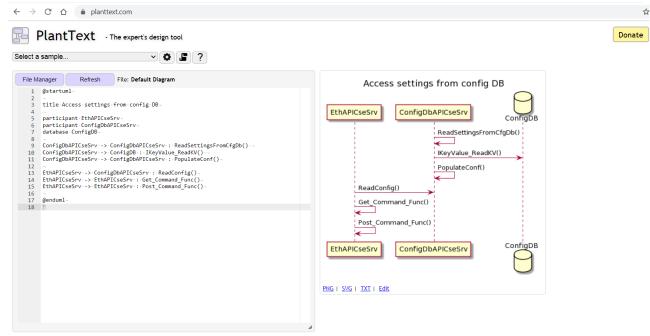
- Use PlantUML to create Sudoku.
- The sudoku is randomly generated.



#### Good news!

 PlantText : PlantUML based online live editor

https://www.planttext.com/

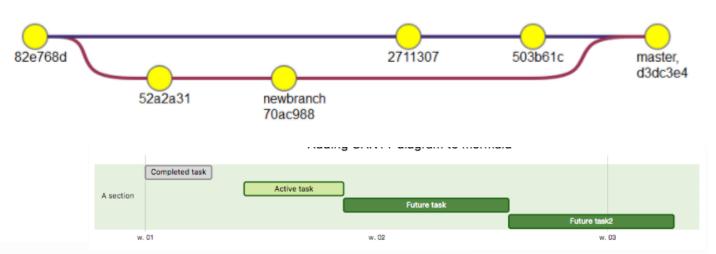


Thanks to PlantUML, Graphviz, Ace Editor, Johan Sundström (js-deflate), as well as Steven Nichols and Brian Folts. © Copyright 2013 - 2020 Arven Vaughan | Privacy Policy



#### Yet another cool tool here - mermaid

- Javascript based diagramming and charting tool.
- Mermaid can render:
  - Flowcharts
  - Sequence / class diagrams
  - Gantt diagram
  - Git graph and more



Mermaid was nominated and won the JS Open Source Awards (2019) in the category "The most exciting use of technology"!!!

https://mermaid-js.github.io/mermaid/#/

# Finally comes: the most exciting tools





# Thank you....

Signing off... Honey Sukesan

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