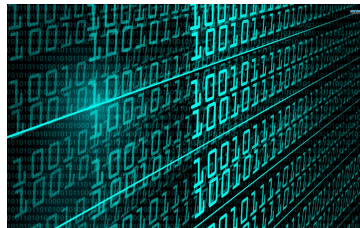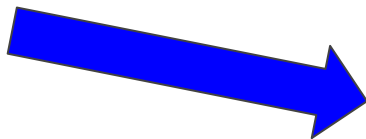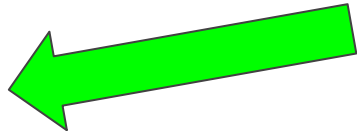# JadeIMP

A "slightly" improved version of Jade

# What is Jade?

———

- Template engine for HTML
- Works only on the server side



http://darshankothari.me/wp-content/uploads/sites/5/2015/12/ewxS2QPvLdyDFv7VjP53u6xW.jpeg



http://dannykapp.com/wp-content/uploads/2015/07/html-on-sheet.jpg

http://images.clipartpanda.com/server-clipart-RTGK5rgTL.png

# What is JadeIMP?

———

- Also a template engine for HTML
- Has has the following functionalities
  - Generates pretty printed HTML code
  - Allows basic programming features including variables, conditionals and loops
  - Allows blocks of HTML code to be stored inside a variable (referred to as "block" in this document)
  - Allows the generated HTML to be manipulated on the client side using "double binding" technique

# DEMO

# Implementation Overview

—————

- Lexer
  - Converts the given jadeimp code and returns a lexed tokens
- Parser
  - Converts the lexed tokens to create an abstract syntax tree
- Synthesizer
  - Double Binding

# Implementation example

---

JadeIMP

div

  | some text

div

  | more text

Lexed tokens

- div token
- Indent
- Text "some text"
- Outdent
- Div token
- Indent
- Text "more text"
- outdent
- End of string

Abstract Syntax Tree

div

 - Text "Some text"

Div

 - Text "More text"

# Testing

———

- Integration Testing
  - Have a folder of sample jadeimp files and their html equivalent projects in another folder. A tester file will go through and check if the files are equal

- Unit Testing
  - We have a separate file that will test each function in the code.
  - To test private functions, the makefile will place the tester code in the code file if debug flag is true

Thank you for listening