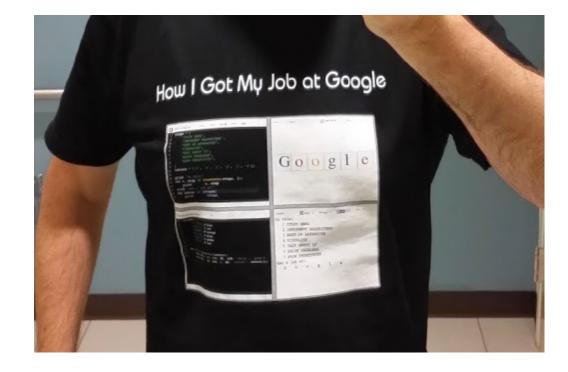
How I got my job at Google



Or: Python Algorithm Visualization in the Browser

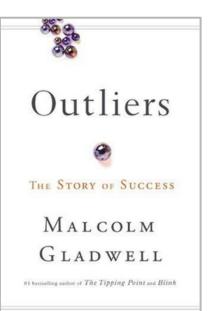
Chris Laffra Software Engineer at Google

THEORY

EXPERIENCE

PERSONALITY





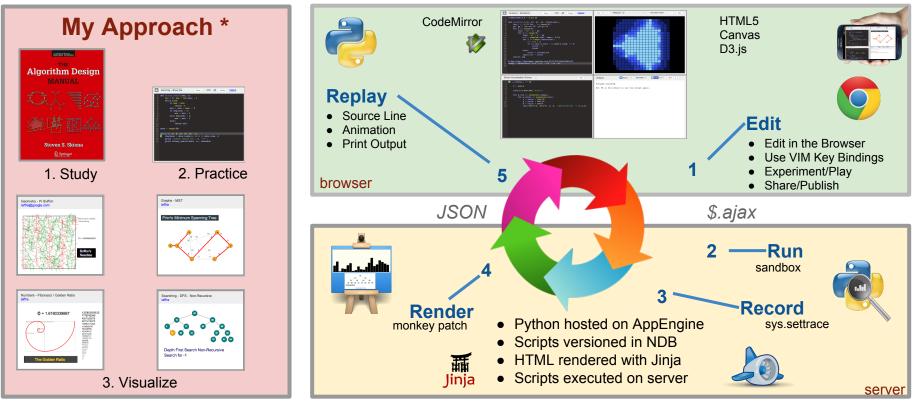
EMOTIONAL INTELLIGENCE	ORGANIZATIONAL JUSTICE
Self-Awareness Self-Management Social Awareness Relationship Management	Decision Fairness Information Sharing Outcome Concern
CHARACTER	DEVELOPMENT
Integrity Credibility Values Differences	Lifelong Learning Developing Others

Travis Bradberry, Leadership 2.0



How I Got My Job At Google Or: Python Algorithm Visualization in the Browser

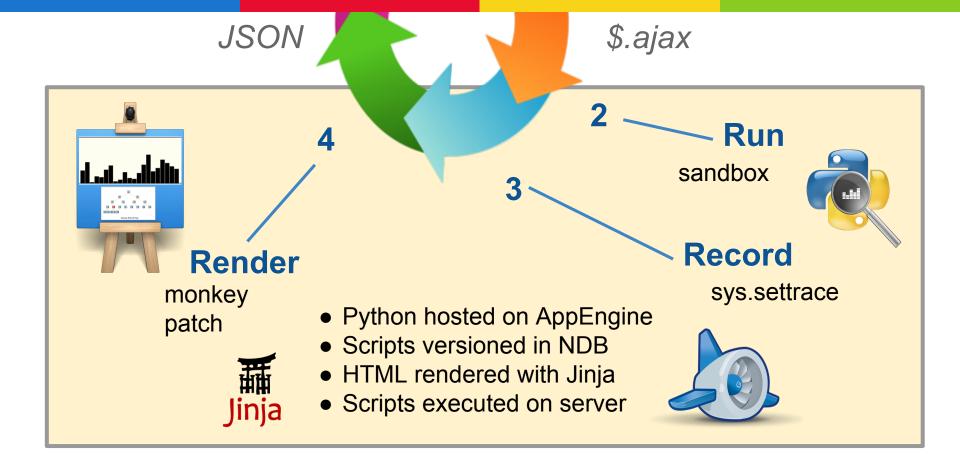




Try it out yourself. See: http://chrislaffra.com

* = Prior results are no guarantee for future success.





```
3 def runScript(script, viz):
       context = ...
 4
 5
       with SandBox(script, viz):
           with Tracer():
 6
 7
8
               exec script in context
 9
   class Sandbox(object):
10
       def enter (self):
11
           monkeyPatchAllBadStuff()
12
           staticallyAnalyzeScripts()
13
14
       def __exit__(self, *args):
15
           unMonkeyPatchAllBadStuff()
16
17
   class Tracer(object):
18
       def __enter__(self):
19
           sys.settrace(self.trace)
20
21
       def trace(self, frame, event, args):
22
           checkIfRanTooLong()
23
           if insideUserScript(frame):
               exec self.viz in { 'rect': ..., 'line': ... }
24
25
               return self.trace
26
27
       def __exit__(self, *args):
28
           sys.settrace(None)
29
```

Pseudo-code for sandbox and visualizing tracer, using context managers, monkey patching and sys. settrace.

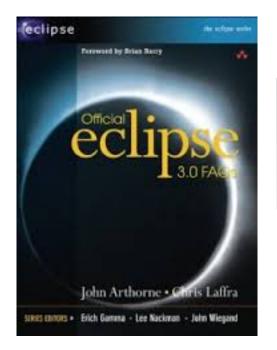


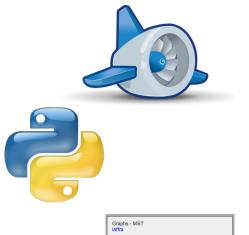


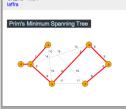
THEORY

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Keep Calm and Be Googly



Questions?

Open Source?



IPython Notebook?

Chris Laffra

Software Engineer at Google

