

Code Samples

We request that all engineering candidates, both senior and junior, write a small piece of code so we can see their chops. These are not intended to take a long period of time to complete; we just want to see your problem solving methods and techniques.

Please choose one of the following, and include the solution with your resume.

1. What to Do?
1. PDF2TXT
1. Duplicate File Tree Checker
1. Impress Us

What to Do?

Use one or more online sources to find events in some area, then cross reference them with the weather forecast at that time in the place the event is happening to avoid events that will have bad weather.

This should be written as a command-line script.

Input: A 5 digit US ZIP code.

Output: A list of upcoming events (at least for that day, further ahead if you would like) with the title, the time, the place, and the forecast weather that day. For this exercise, it should be some fashion of 'Sunny', 'Partly Cloudy', or similar. Events on days with precipitation should be filtered out. It's ok to have an empty list if the weather is bad. Temperature doesn't matter.

Example:

```
./what_to_do 94107
```

```
Hotel Utah Saloon - Open Mike
2011-03-07 12:00 AM
Hotel Utah Saloon
500 Fourth street
San Francisco, CA 94107
Clear/Sunny
```

```
SVMN Microfinance 201 Course
2011-03-07 06:30 PM
San Francisco
City-wide
San Francisco, CA 94107
Clear/Sunny
```

```
San Francisco Salsa Dancing with Live Music and Free Lessons
2011-03-07 07:00 PM
Cafe Cocomo
```

672 Indiana Street @ Mariposa and Nineteenth
San Francisco, CA 94107
Clear/Sunny

LEADING BY DESIGN FELLOWS PROGRAM Information Session
2011-03-07 07:00 PM
California College of the Arts
1111 Eighth Street
San Francisco, CA 94107
Clear/Sunny

PDF2TXT

Write a single-page web application that, when given a URL to a PDF file, will display the text of that PDF on the page. There should be no full page reloads required to display the results. Extracting the text from the PDF can be done via any method you would like.

You do not have to do any styling of this app, but you can if you'd like. At minimum, there should be an input field and a way to submit that input.

Your app should display an error, either via alert or on the page itself, in the case of a PDF not being found at the passed URL.

You can use any open-source stack/framework you wish for the app, but please include installation instructions.

Duplicate file tree checker

Write a utility/method that, given 2 paths, scours each, and if there are files with the same name at the same place in the tree, diffs them, then lists the file pairs that are identical to each other

Impress Us

Have you done something way cooler than any of this stuff and want to show us that instead? Link us up!