

# PCATParser

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## Introduction

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It is not enough to find a set of web pages, we need to extract the information from each of the web pages we find. This is done by the **PCATParser**. The **PCATParser** is a general purpose web scraper for getting the visible text from a web page. We also integrated some site-specific web scrapers to get more structured data into [Site\\_Crawler\\_Parser\\_All](#).

## Documentation

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### **eightk\_parser(link)**

Parses an SEC document known as an 8-K

Parameters

- link (string) : the URL for the 8-K

Returns

- string : the important text for the 8-K

### **ex21\_parser(link)**

Parses an SEC document known as an EX-21

Parameters

- link (string) : the URL for the EX-21

Returns

- list of strings : the subsidiaries in the company listed in the EX-21

## **get\_PDF\_content(query\_string, link)**

Gets all of the text from a PDF document

### Parameters

- query\_string (string) : the query that generated the PDF document
- link (string) : the URL for the document

### Returns

- string : the visible text in the PDF

## **parser\_iter(query\_string, linkList)**

Parses the URLs in linkList using a timeout of 60 seconds on each page (a la try\_one) and yields them as dictionaries.

### Parameters

- query\_string (string) : the generating query, default is "test"
- linkList (list of strings) : list of URLs for the documents you would like to parse

### Returns

- dict (yields many)
  - dict'text' : the visible text on the web page
  - dict'html' : the HTML code of the page (if it is HTML based)
  - dict'pdf' : the PDF code of the page (if it is PDF based)

## **parse\_single\_page(link, query\_string = "test")**

Gets all of the text from web page

### Parameters

- link (string) : the URL for the document
- query\_string (string) : the generating query, default is "test"

### Returns

- tuple (bytes, string) : the source code (HTML/PDF) of the web page and the visible text

## **tag\_visible(element)**

Determines if an HTML tag is visible

Parameters

- element (BeautifulSoup.element) : an HTML element

Returns

- bool : True if the element is visible, False else

### **tenk\_parser(link)**

Parses an SEC document known as an 10-K

Parameters

- link (string) : the URL for the 10-K

Returns

- string : the important information in the 10-K

### **text\_from\_html(body)**

Gets all of the visible text from the body of an HTML document

Parameters

- body (string) : the body of an HTML document

Returns

- string : the visible text in the body

### **try\_one(func, t, \*\*kwargs)**

Calls the function with the keyword arguments and after t seconds, interrupts the call and moves on

Parameters

- func (function) : the function to be called
- t (int) : the number of seconds
- \*\*kwargs (keyword-arguments) : arguments you'd like to pass to func

## Returns

- func's return type

## **wikiParser(company)**

Search the Wikipedia page for a company and get wikipedia infobox together with all other contents

## Parameters

- company (str) : the company you would like to query Wikipedia for

## Returns

- tuple
  - dict : a dictionary of all other contents on wikipedia
  - dict : a dictionary of wikipedia infobox
  - str : page title
  - str : page url
  - BeautifulSoup.table : wikipedia infobox HTML