Introducing Scrapy

Scrapy

Originally built for web scraping but now used for web crawling

Scrapy

Scraping vs. Crawling

Web Scraping

Extract data directly from web sites

Data analysis and somewhat unsavory reputation

Specific – "scrape prices from Amazon"

Small scale, results in specialized dataset

Web Crawling

Download and index web sites

Performed all by search engines, associated with legitimate use

General – " crawl sites linked off Amazon"

Large scale, results in document corpus

Framework vs. library: inversion of control

Scrapy

Library vs. Framework

Library

You call library functions

You write the application and invoke library for specific portions

Framework

Framework calls you

Framework defines the application and invokes your code for specific portions

Beautiful Soup is a parsing library

Scrapy is a web scraping framework

You must know what you are looking for – tied to HTML format

Scrapy

Inherently somewhat fragile, like regular expressions and other related tools

Scrapy

Specific HTML elements are selected for processing using Selectors

Scrapy

Scrapy supports selectors specified in CSS and XPath

Scrapy

Selector

Specification of what HTML elements ought to be selected for processing. Scrapy supports XPath and CSS selectors.