## Crawling the Web

COMS10012 / COMSM0085

Software Tools

# wget

### Basic usage

Download a file/resource:

\$ wget <url>

Does exactly what you ask.

Perhaps not what you intend?

### Page requisites

Download webpage with requisites:

```
$ wget -p <url>
```

Include: stylesheets, images

Also: robots.txt?

#### ROBOTS.TXT

Standard for websites to announce crawling preferences.

Simple text file stored in top-level directory of a site.

Specifies which user-agents are permitted to access which resources.

## Recursive downloading

Download webpage and linked pages:

recursively

By default, constrained to only pages on the same domain as that in the webpage URL.

- l N: The level of recursion to permit. (Default if omitted is 5).

## Mirroring

Download entire website:

Uses standard defaults for creating a local copy of a full website. (Think about if you really want the **entire** website).

-w 1: Wait 1 second between each request (to avoid annoying a server).

## **Ethics**

#### Concerns

- Does the site permit you to crawl this resource? (robots.txt)
- Is there a better way to get a copy?
- Are you allowed to republish downloaded content? (e.g., copyright)
- Are you going to make something more public than it should be?