Introduction to web scraping

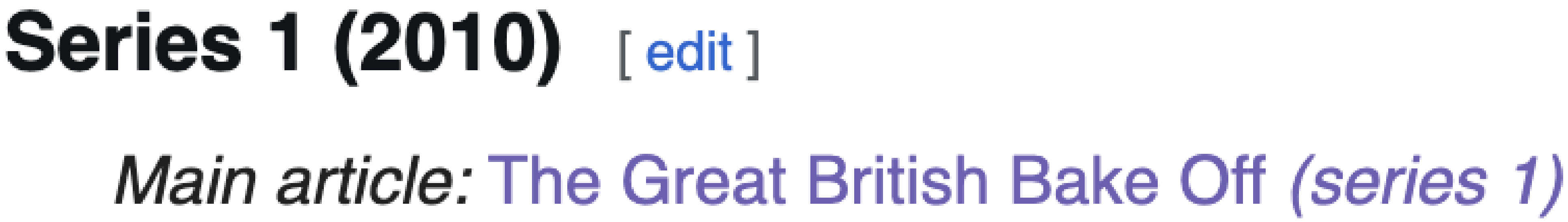
Warmup

Work on the warmup activity (handout), then we will discuss as a class.

Motivation: Great British Bake Off

Accessing HTML attributes

`https://en.wikipedia.org/wiki/The_Great_British_Bake_Off`

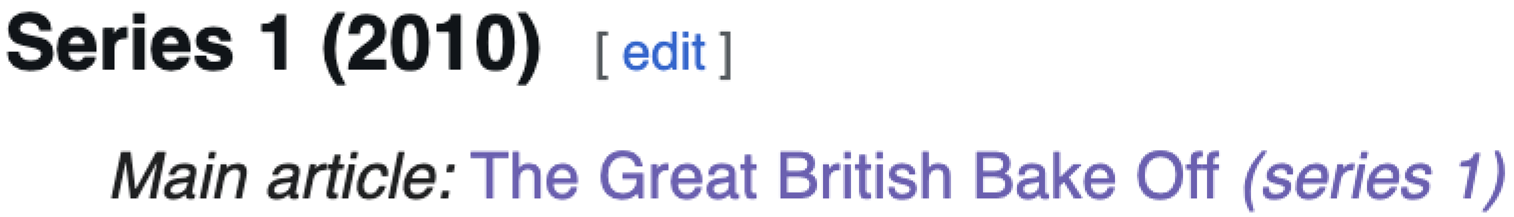


Series 1 (2010) [edit]

Main article: The Great British Bake Off *(series 1)*

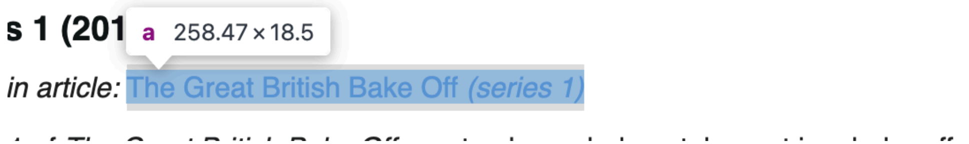
Accessing HTML attributes

```
https://en.wikipedia.org/wiki/The_Great_British_Bake_Off
```



Series 1 (2010) [edit]

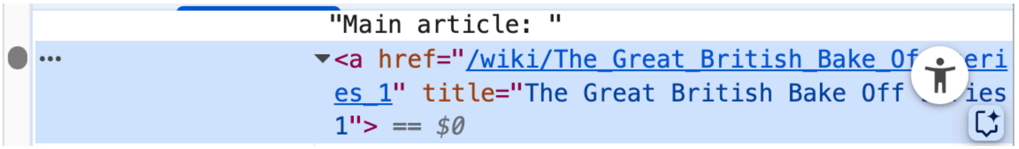
Main article: The Great British Bake Off *(series 1)*



s 1 (201

a 258.47 × 18.5

in article: The Great British Bake Off *(series 1)*



```
"Main article: "
▾<a href="/wiki/The_Great_British_Bake_Of  eri
es_1" title="The Great British Bake Off   ies
1"> == $0
```

Accessing HTML attributes

(Demo)

Accessing HTML attributes

```r
gbbo <- read_html("https://en.wikipedia.org/wiki/The_Great_British_Ba
gbbo |>
  html_elements("div.hatnote.navigation-not-searchable > a") |>
  html_attr("href")
```

```
 [1] "/wiki/Great_Basin_Bird_Observatory"
 [2] "/wiki/List_of_The_Great_British_Bake_Off_contestants"
 [3]
"/wiki/List_of_The_Great_British_Bake_Off_finalists_(series_1%E2%80%937)'
 [4]
"/wiki/List_of_The_Great_British_Bake_Off_finalists_(series_8%E2%80%93pre
 [5] "/wiki/The_Great_British_Bake_Off_series_1"
 [6] "/wiki/The_Great_British_Bake_Off_series_2"
 [7] "/wiki/The_Great_British_Bake_Off_series_3"
 [8] "/wiki/The_Great_British_Bake_Off_series_4"
 [9] "/wiki/The_Great_British_Bake_Off_series_5"
[10] "/wiki/The_Great_British_Bake_Off_series_6"
[11] "/wiki/The_Great_British_Bake_Off_series_7"
```

Accessing HTML attributes

```r
gbbo |>
  html_elements("div.hatnote.navigation-not-searchable > a") |>
  html_text2()
```

```
 [1] "Great Basin Bird Observatory"
 [2] "List of contestants"
 [3] "List of finalists (series 1–7)"
 [4] "List of finalists (series 8–present)"
 [5] "The Great British Bake Off (series 1)"
 [6] "The Great British Bake Off (series 2)"
 [7] "The Great British Bake Off (series 3)"
 [8] "The Great British Bake Off (series 4)"
 [9] "The Great British Bake Off (series 5)"
[10] "The Great British Bake Off (series 6)"
[11] "The Great British Bake Off (series 7)"
[12] "The Great British Bake Off (series 8)"
[13] "The Great British Bake Off (series 9)"
```

Class activity

Spend the remainder of the class period on the class activity (CSS Diner: practice with CSS selectors). You do not need to submit anything.