

Webscraping with R

Part 2: Intro to HTML & CSS

Birmingham Corpus Linguistics Summer School

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Main page Contents Current events Random article About Wikipedia Contact us Donate

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Tools

What links here Related changes Special pages Permanent link Page information Cite this page Wikidata item

Print/export

Download as PDF Printable version Article Talk Read Edit View history Search Wikipedia Q

Not logged in Talk Contributions Create account Log in

Parasitic gap

From Wikipedia, the free encyclopedia

Contents [hide]

- 1 The phenomenon
- 2 Some historical notes
- 3 Some traits of parasitic gaps
 - 3.1 Optional parasitic gaps
 - 3.2 Obligatory parasitic gaps
 - 3.3 Missing object constructions
 - 3.4 The role of parallelism
- 4 Theoretical controversy
- 5 See also
- 6 Notes
- 7 References

The phenomenon [edit]

Optional parasitic gaps [edit]

Many parasitic gaps appear optionally. They are in non-complementary distribution with a pronoun, meaning that the speaker has the choice whether to employ the gap or not, e.g.

- a. Which dish did you order __ after you tried __p? Parasitic gap present
- b. Which dish did you order __ after you tried it? Parasitic gap absent
- a. Which movie will they like $_$ as soon as they see $_$ _p? Parasitic gap present
- b. Which movie will they like __ as soon as they see it? Parasitic gap absent

The a-sentence contain typical parasitic gaps, whereas the b-sentence choose to use a pronoun instead of the gap. In other words, the parasitic gap in the a-sentences is occurring optionally. Optionality like this suggests an analysis of parasitism in terms of ellipsis, since optionality is the primary trait of known ellipsis mechanisms.

Obligatory parasitic gaps [edit]

While many parasitic gaps occur optionally as just illustrated, other parasitic gaps occur obligatorily. This can be the case when the parasitic gap precedes the "real" gap, e.g.

- a. The rumor about the girl annoyed her. No gap at all present
- b. Which girl did [the rumor about ___n] annoy ___? Parasitic gap precedes "real" gap
- c. ??Which girl did the rumor about her annoy ? Real gap hardly possible unless the parasitic gap is present; weak crossover has occurred
- a. If you get to know him, you will like Bill. No gap at all present
- b. Bill is the type of guy **who** [if you get to know ____,], you will like ___. Parasitic gap precedes "real" gap
- c. ??Bill is the type of guy **who** if you get to know **him**, you will like ___. Real gap hardly possible unless the parasitic gap is present; weak crossover has occurred

These examples illustrate a couple of important facts about parasitic gaps. The b-sentences demonstrate that the parasitic gap can indeed precede the "real" gap, and the strong marginality of the c-sentences shows that in a sense, the real gap can also be dependent on the parasitic gap. Note that we know that the first gap (the leftmost gap) in the b-sentences is parasitic on the following gap because it, i.e. the leftmost gap, appears inside what is normally an extraction island (marked with square brackets). The aspect of parasitic gaps illustrated with

```
Apps
               😁 Google Advanced S... 📕 Digital services for... 🚱 Add to My Bookma... 🐧 User dashboard 🔞 ResourceLists@bham
                                                                                                                                                                                                                         Reading list
                                                                                                                                                                                      Other bookmarks
ine wrap 🗌
  1 <!DOCTYPE html>
  2 <html class="client-nojs" lang="en" dir="ltr">
  3 <head>
  4 <meta charset="UTF-8"/>
  5 <title>Parasitic gap - Wikipedia</title>
  6 <script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":!1,"wgSeparatorTransformTable":["",""],"wgDigitTransformTable":["",""],
      "wgRestrictionMove":[],"wgFlaggedRevsParams":{"tags":{"status":{"levels":-1}}},"wgMediaViewerOnClick":!0,"wgMediaViewerEnabledByDefault":!0,"wgPopupsF
     "ext.visualEditor.desktopArticleTarget.noscript":"ready","ext.uls.interlanguage":"ready","ext.wikimediaBadges":"ready","wikibase.client.init":"ready"}
  9 <script>(RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.options@1hzgi",function($,jQuery,require,module){/*@nomin*/mw.user.tokens.set({
 10 });});</script>
 11 11 | 11 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 
 12 <script async="" src="/w/load.php?lang=en&amp;modules=startup&amp;only=scripts&amp;raw=1&amp;skin=vector"></script>
 13 <meta name="ResourceLoaderDynamicStyles" content=""/>
 14 14 14 rel="stylesheet" href="/w/load.php?lang=en&modules=site.styles&only=styles&skin=vector"/>
 15 <meta name="generator" content="MediaWiki 1.37.0-wmf.4"/>
 18 <meta name="referrer" content="origin"/>
 17 <meta name="referrer" content="origin-when-crossorigin"/>
 18 <meta name="referrer" content="origin-when-cross-origin"/>
 19 <meta property="og:title" content="Parasitic gap - Wikipedia"/>
 20 <meta property="og:type" content="website"/>
 21 21 | clink rel="alternate" media="only screen and (max-width: 720px)" href="//en.m.wikipedia.org/wiki/Parasitic gap"/>
 22 <link rel="alternate" type="application/x-wiki" title="Edit this page" href="/w/index.php?title=Parasitic gap&amp;action=edit"/>
 23 <link rel="edit" title="Edit this page" href="/w/index.php?title=Parasitic gap&amp;action=edit"/>
 24 <link rel="apple-touch-icon" href="/static/apple-touch/wikipedia.png"/>
 25 link rel="shortcut icon" href="/static/favicon/wikipedia.ico"/>
 28 k rel="search" type="application/opensearchdescription+xml" href="/w/opensearch desc.php" title="Wikipedia (en)"/>
 27 <link rel="EditURI" type="application/rsd+xml" href="//en.wikipedia.org/w/api.php?action=rsd"/>
 28 <link rel="license" href="//creativecommons.org/licenses/by-sa/3.0/"/>
 29 k rel="canonical" href="https://en.wikipedia.org/wiki/Parasitic gap"/>
 30 k rel="dns-prefetch" href="//login.wikimedia.org"/>
 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31
 32 </head>
 33 <body class="mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0 ns-subject mw-editable page-Parasitic gap rootpage-Parasitic gap skin-vector action-view
 34 <div id="mw-head-base" class="noprint"></div>
     <div id="content" class="mw-body" role="main">
 35
 36
            <a id="top"></a>
 37
            <div id="siteNotice" class="mw-body-content"><!-- CentralNotice --></div>
 38
            <div class="mw-indicators mw-body-content">
 39
            </div>
 40
            <h1 id="firstHeading" class="firstHeading" >Parasitic gap</h1>
 41
            <div id="bodyContent" class="mw-body-content">
 42
                  <div id="siteSub" class="noprint">From Wikipedia, the free encyclopedia</div>
 43
                  <div id="contentSub"></div>
 44
                  <div id="contentSub2"></div>
```

Webpages behind the scenes

All web pages have an expected kind of structure, which usually consists of three types of code

 Markup: provides annotations, i.e. "markup", describing the structure and organization of the information contained in a document (e.g. HTML, XML)

Webpages behind the scenes

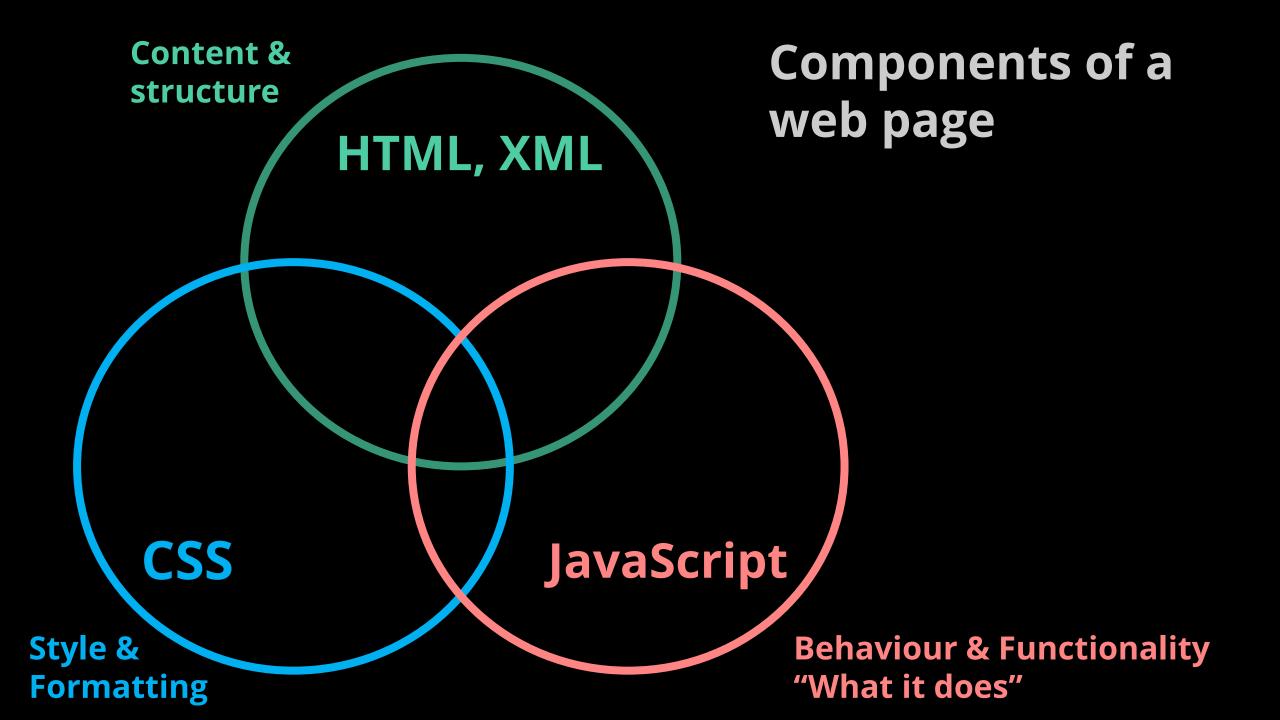
All web pages have an expected kind of structure, which usually consists of three types of code

- Markup: provides annotations, i.e. "markup", describing the structure and organization of the information contained in a document
- CSS: controls the presentation, formatting, and layout of the page that you see in your browser

Webpages behind the scenes

All web pages have an expected kind of structure, which usually consists of three types of code

- Markup: provides annotations, i.e. "markup", describing the structure and organization of the information contained in a document
- CSS: controls the presentation, formatting, and layout of the page that you see in your browser
- JavaScript: controls how things behave when you interact with them



Markup code: HTML and XML

HTML (HyperText Markup Language) is designed to display data, with focus on how data *looks*

XML (eXtensible Markup Language) is designed to organize and store data, with a focus on what data is

Markup code: HTML and XML

```
<html>
<body>
>
The 'p' tag is used to indicate a paragraph.
Other general purpose tags include `<div>...</div>`, and `<span>...</span>
for creating divisions and text span elements.
</body>
</html>
```

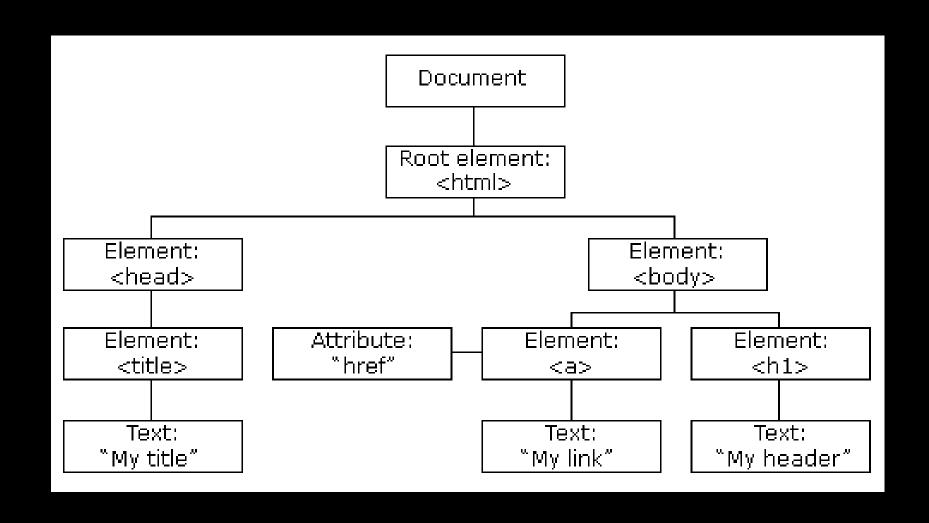
Markup code: HTML and XML

```
opening tags
<html>
<body>
>
The 'p' tag is used to indicate a paragraph.
Other general purpose tags include `<div>...</div>`, and `<span>...</span>
for creating divisions and text span elements.
</body>
         closing tags
</html>
```

Markup code: Lists

```
  The 'ul' tag indicates an unordered
list.
  The 'li' tag demarcates an individual list
item.
```

Markup is structured



Common tags

Tag	Description
<html> </html>	Declares the Web page to be written in HTML
<head> </head>	Delimits the page's head
<title> </title>	Defines the title (not displayed on the page)
<body> </body>	Delimits the page's body
<h n=""> </h>	Delimits a level <i>n</i> heading
 	Set in boldface
<i> </i>	Set in italics
<center> </center>	Center on the page horizontally
	Brackets an unordered (bulleted) list
 	Brackets a numbered list
 	Brackets an item in an ordered or numbered list
 	Forces a line break here
<	Starts a paragraph
<hr/>	Inserts a horizontal rule
	Displays an image here
 	Defines a hyperlink

Attributes

```
This is a unique paragraph which can be referred to with the id "#paragraph1".
```

```
This paragraph is one of many potential elements of class ".red-right-hand".
```

Markup code: Links

```
<a href="url">link text</a>
```

```
<a href="https://www.birmingham.ac.uk">
University of Birmingham main page
</a>
```

Cascading Style Sheets (CSS)

```
p {
  text-align: center;
}
```

CSS code declaring all elements to be center-aligned

```
li {
  font-style: italic;
}
```

CSS code declaring all <1i> (list item) elements to be italicised

Cascading Style Sheets (CSS)

```
.red-right-hand {
  text-align: right;
  color: red;
}
```

CSS code declaring all elements of class="red-right-hand" to be right-aligned and red

```
#paragraph1 {
  font-weight: bold;
  font-size: 16pt;
}
```

CSS code declaring the *specific element* with id="paragraph" to be
bold and size 16pt font

CSS selectors

Selectors identify HTML element(s) according to their attributues, tags, and structure.

Selectors can be very complex

CSS selectors

p.red-right-hand

Selects only elements with class="red-right-hand"

div > p

Selects only elements that are children of a <div> element

p.red-right-hand li

Selects only le elements that are descendants of a element with class="red-right-hand"

Further practice

I highly recommend the tutorials on w3schools.com.

Just the basics should be enough for what we'll be doing.