Taste of Code

RSS Feed Reader

:{) Codaisseur

@miriamtocino

What Do We Need

Editor

Atom, Notepad++, Vim

Browser

Chrome, Firefox

Slack

https://nos-hq.slack.com/

Outline Project

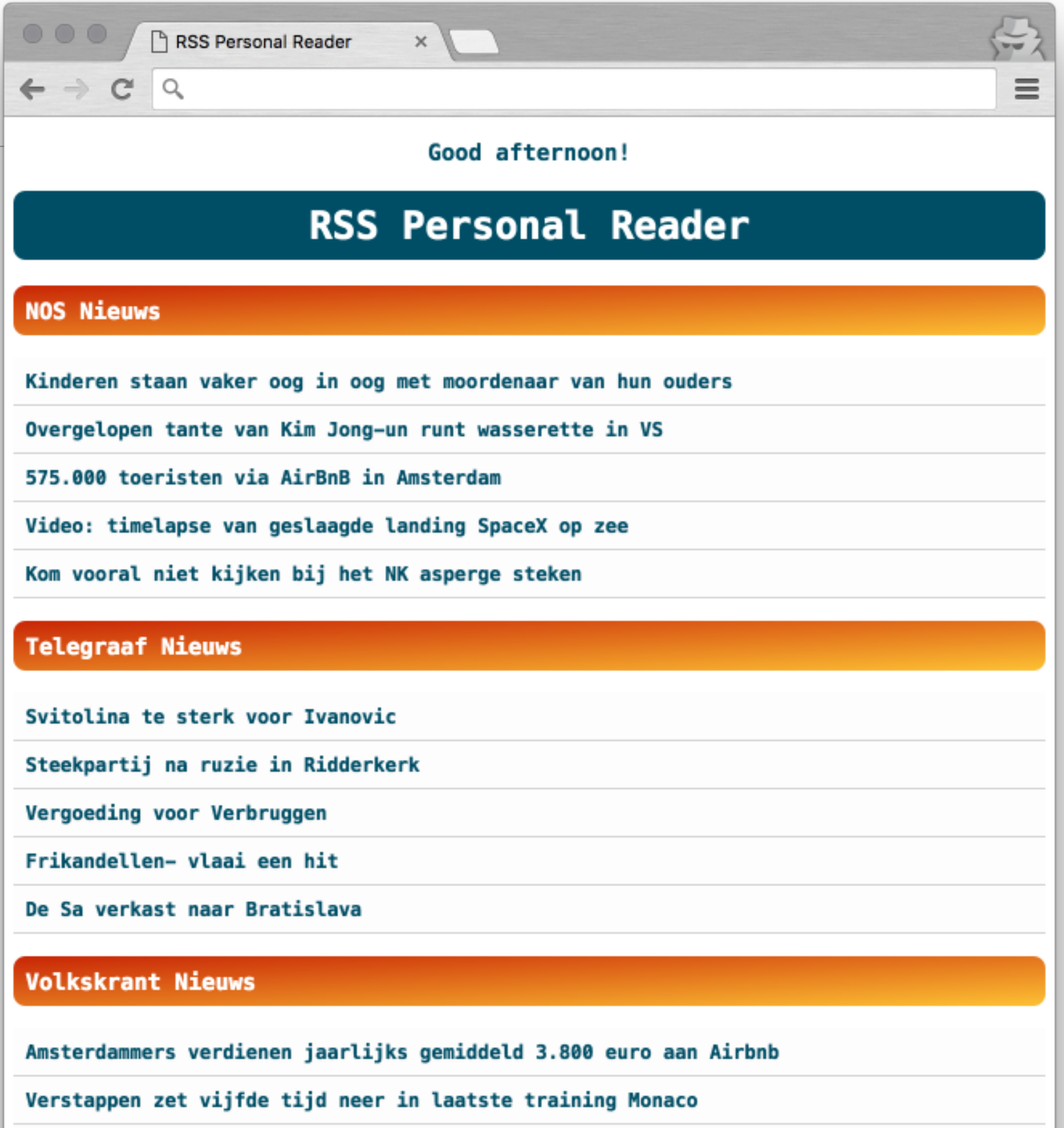
Let’s Begin

It's always helpful to first outline what you want your **project to do/achieve**.

What We Will Build

RSS Feed Reader

Using HTML, CSS and jQuery.



Good afternoon!

RSS Personal Reader

NOS Nieuws

Kinderen staan vaker oog in oog met moordenaar van hun ouders

Overgelopen tante van Kim Jong-un runt wasserette in VS

575.000 toeristen via AirBnB in Amsterdam

Video: timelapse van geslaagde landing SpaceX op zee

Kom vooral niet kijken bij het NK asperge steken

Telegraaf Nieuws

Svitolina te sterk voor Ivanovic

Steekpartij na ruzie in Ridderkerk

Vergoeding voor Verbruggen

Frikandellen- vlaai een hit

De Sa verkast naar Bratislava

Volkskrant Nieuws

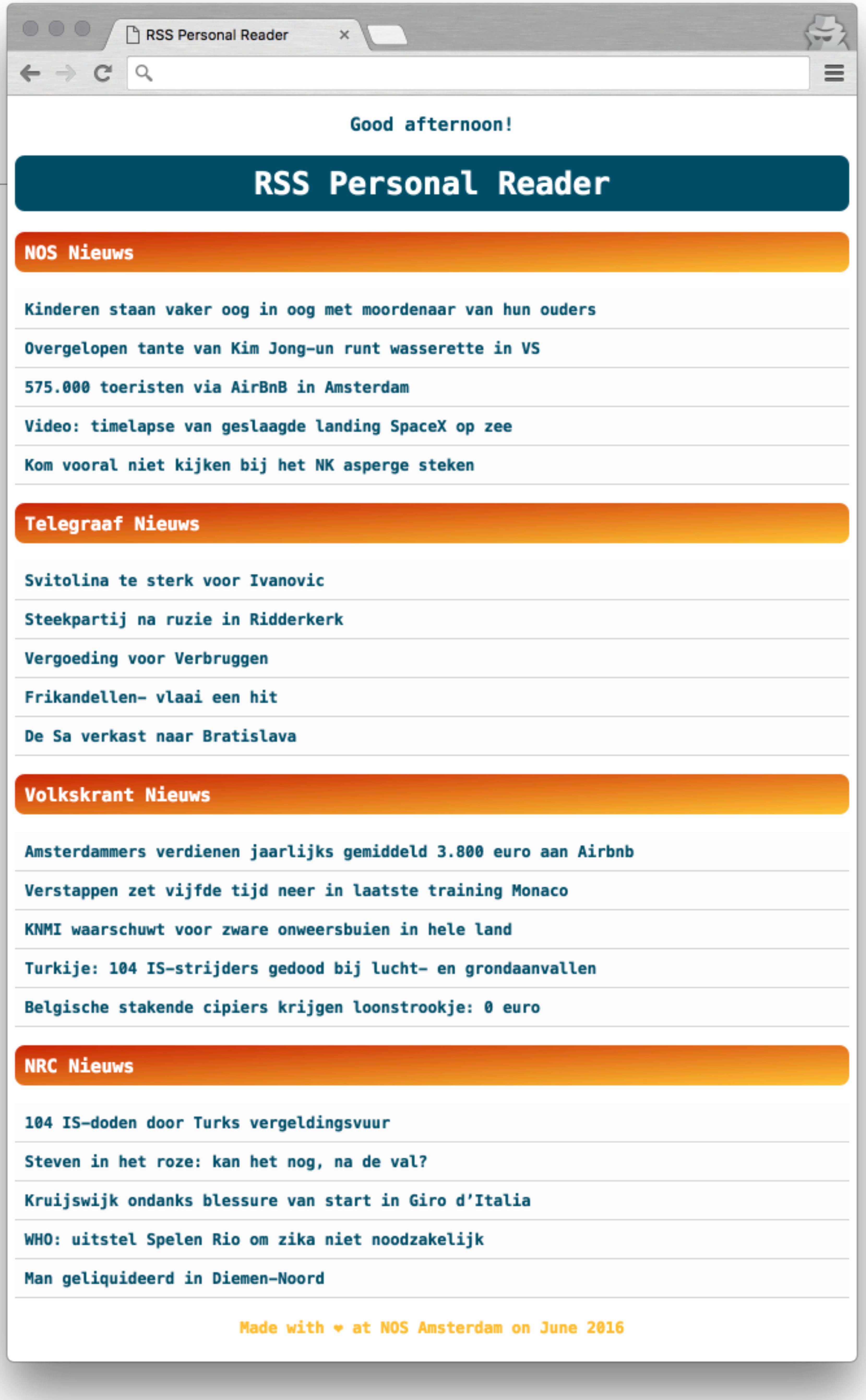
Amsterdammers verdienen jaarlijks gemiddeld 3.800 euro aan Airbnb

Verstappen zet vijfde tijd neer in laatste training Monaco

What We Will Build

ToDo:

- Display a list of some news sites
- Display links to the last 5 articles for each of these sites
- Open articles in a different window when clicked on



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Verstappen zet vijfde tijd neer in laatste training Monaco

KNMI waarschuwt voor zware onweersbuien in hele land

Turkije: 104 IS-strijders gedood bij lucht- en grondaanvallen

Belgische stakende cipiers krijgen loonstrookje: 0 euro

NRC Nieuws

104 IS-doden door Turks vergeldingsvuur

Steven in het roze: kan het nog, na de val?

Kruijswijk ondanks blessure van start in Giro d'Italia

WHO: uitstel Spelen Rio om zika niet noodzakelijk

Man geliquideerd in Diemen-Noord

Made with ♥ at NOS Amsterdam on June 2016

HTML

Content & Structure

`HTML is the language of the web.`

What is HTML?

HTML is a **markup language**
for writing web pages.

Any website you ever visited
was **made with html**.

Each new version of HTML is
adapted to new requirements of the web.

What is HTML?

<DOCTYPE>
defines doc type

<html>
describes HTML doc

<head>
provides doc info

<title>
provides doc title

<body>
describes page content

<h1>
describes a heading

<p>
describes a paragraph

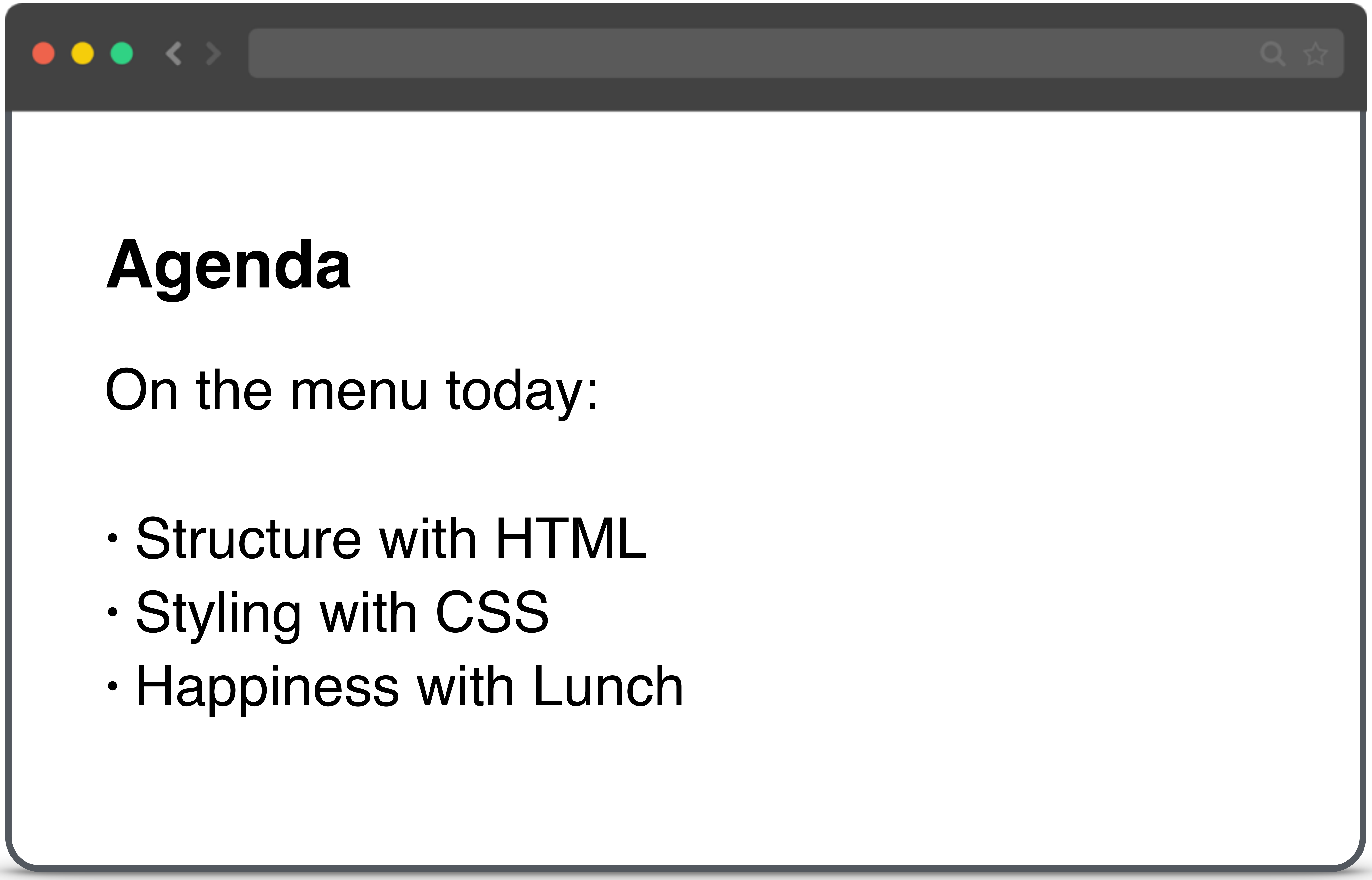
index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Taste of Code</title>
  </head>
  <body>
    <h1>Agenda</h1>

    <p>On the menu today:</p>

    <ul>
      <li>Structure with HTML</li>
      <li>Styling with CSS</li>
      <li>Happiness with Lunch</li>
    </ul>
  </body>
</html>
```

What is HTML?

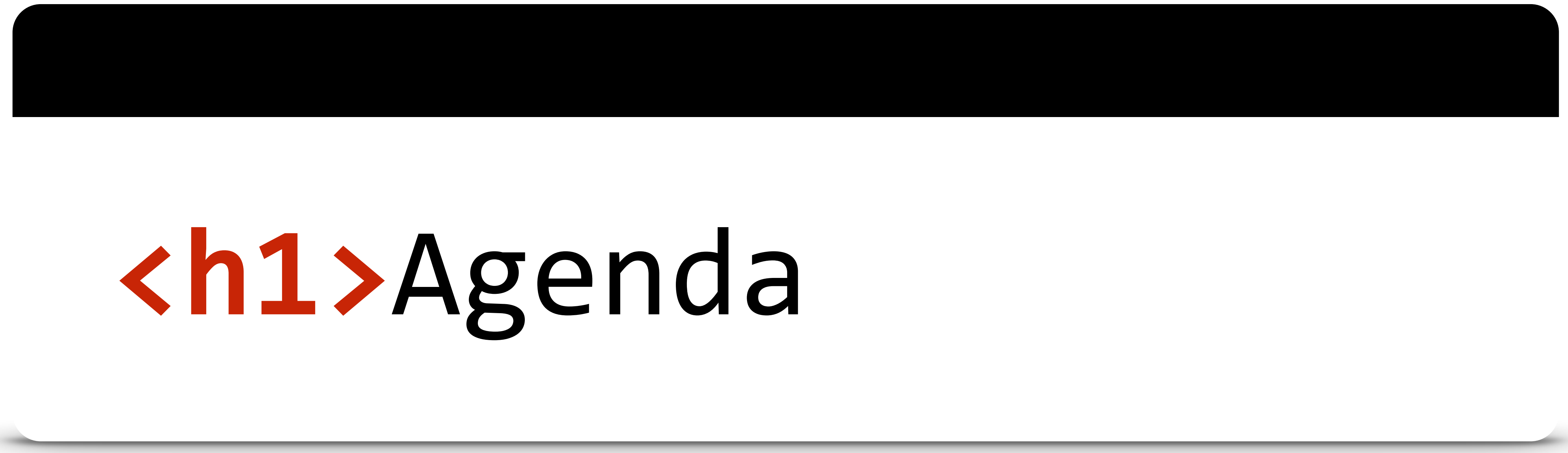


Agenda

On the menu today:

- Structure with HTML
- Styling with CSS
- Happiness with Lunch

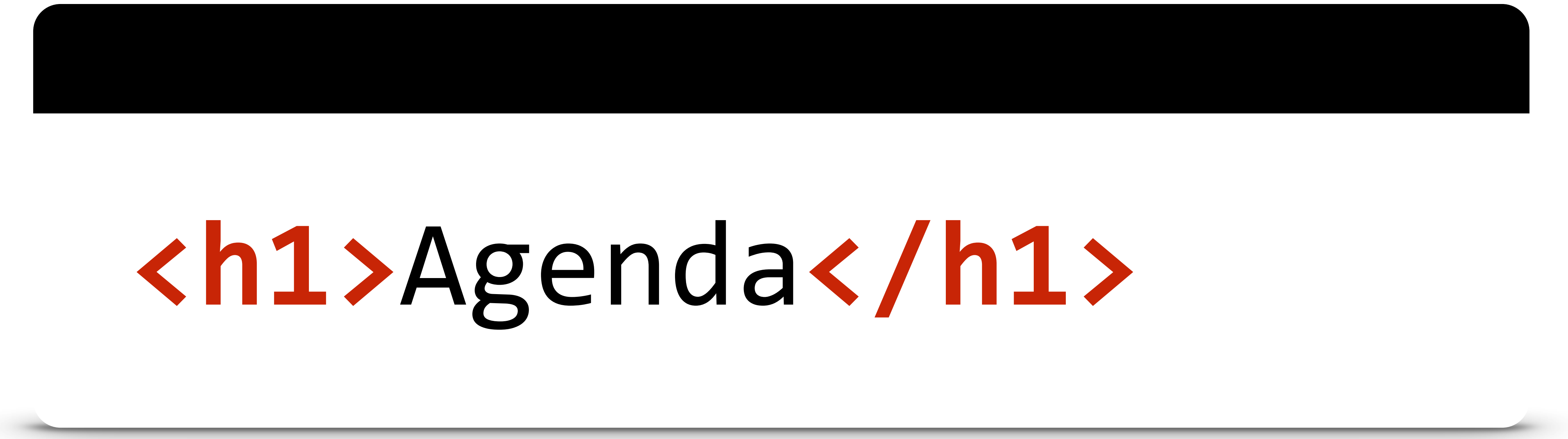
TAGS open...



```
<h1>Agenda
```

Opening tag = starts heading

TAGS open and close



```html
<h1>Agenda</h1>
```

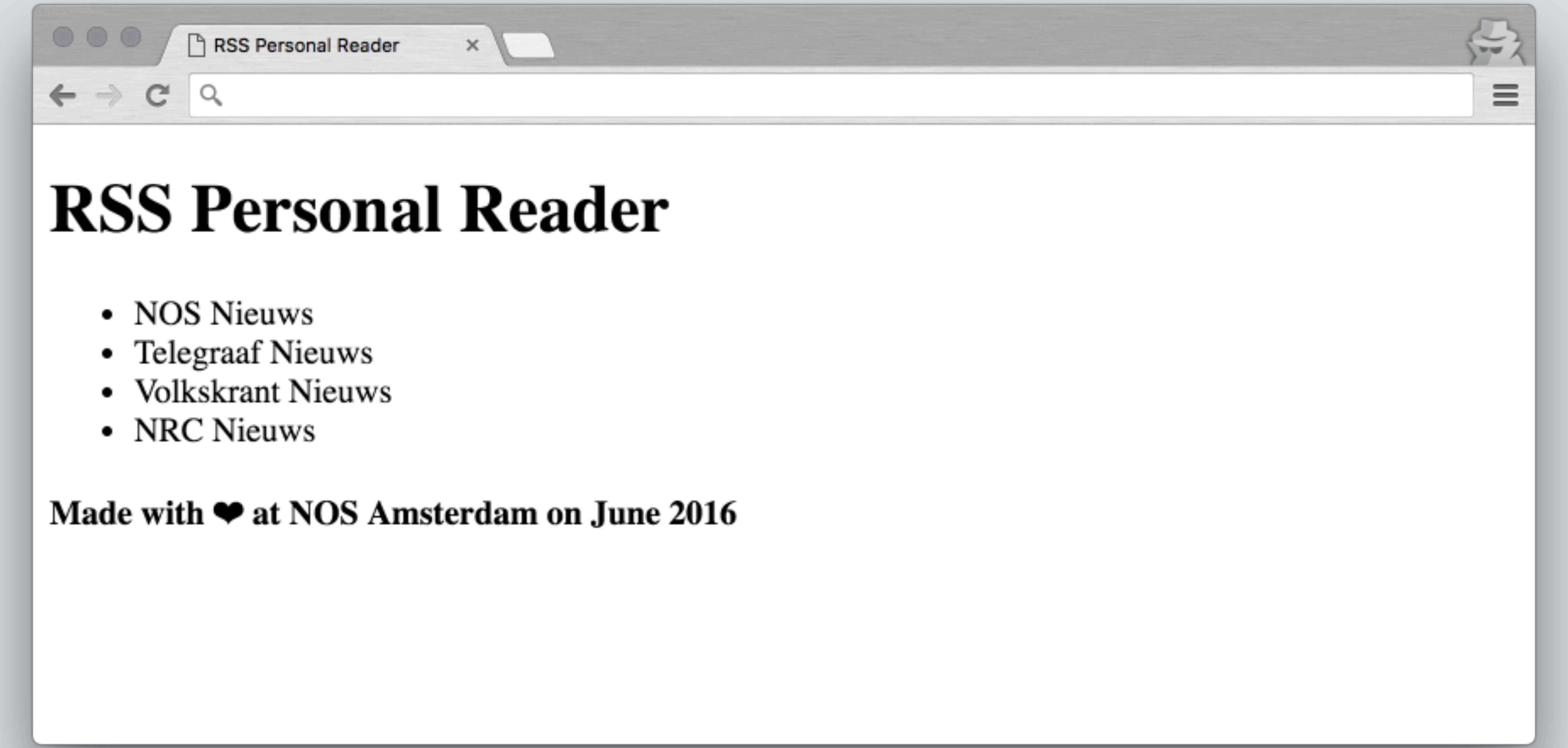
Opening tag = starts heading
Closing tag = stops heading

✎ Exercise

Your Very First HTML

Make a new folder for your project
and create an **index.html** file.

✎ Exercise



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- NOS Nieuws
- Telegraaf Nieuws
- Volkskrant Nieuws
- NRC Nieuws

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CSS

Style & Presentation

CSS describes how HTML looks.

What is CSS?

CSS is a **stylesheet language** that describes the presentation of an HTML document.

text color
fonts style
spacing between elements
background images

What is CSS?

color

sets the color of the text

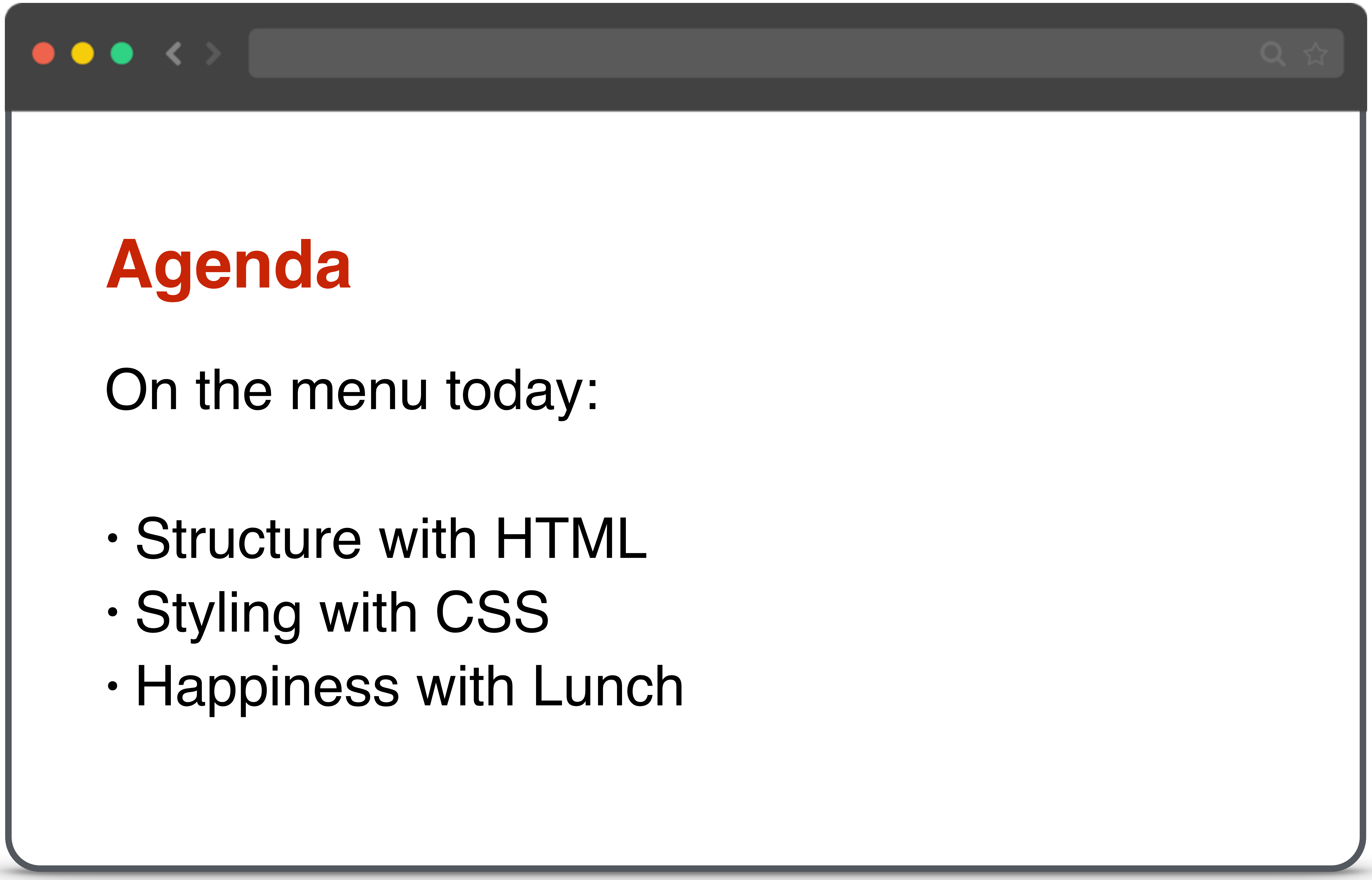
index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Taste of Code</title>

    <style>
      h1 {
         color: red;
       }
    </style>

  </head>
  <body>
    <h1>Agenda</h1>
    …
  </body>
</html>
```

What is CSS?



Agenda

On the menu today:

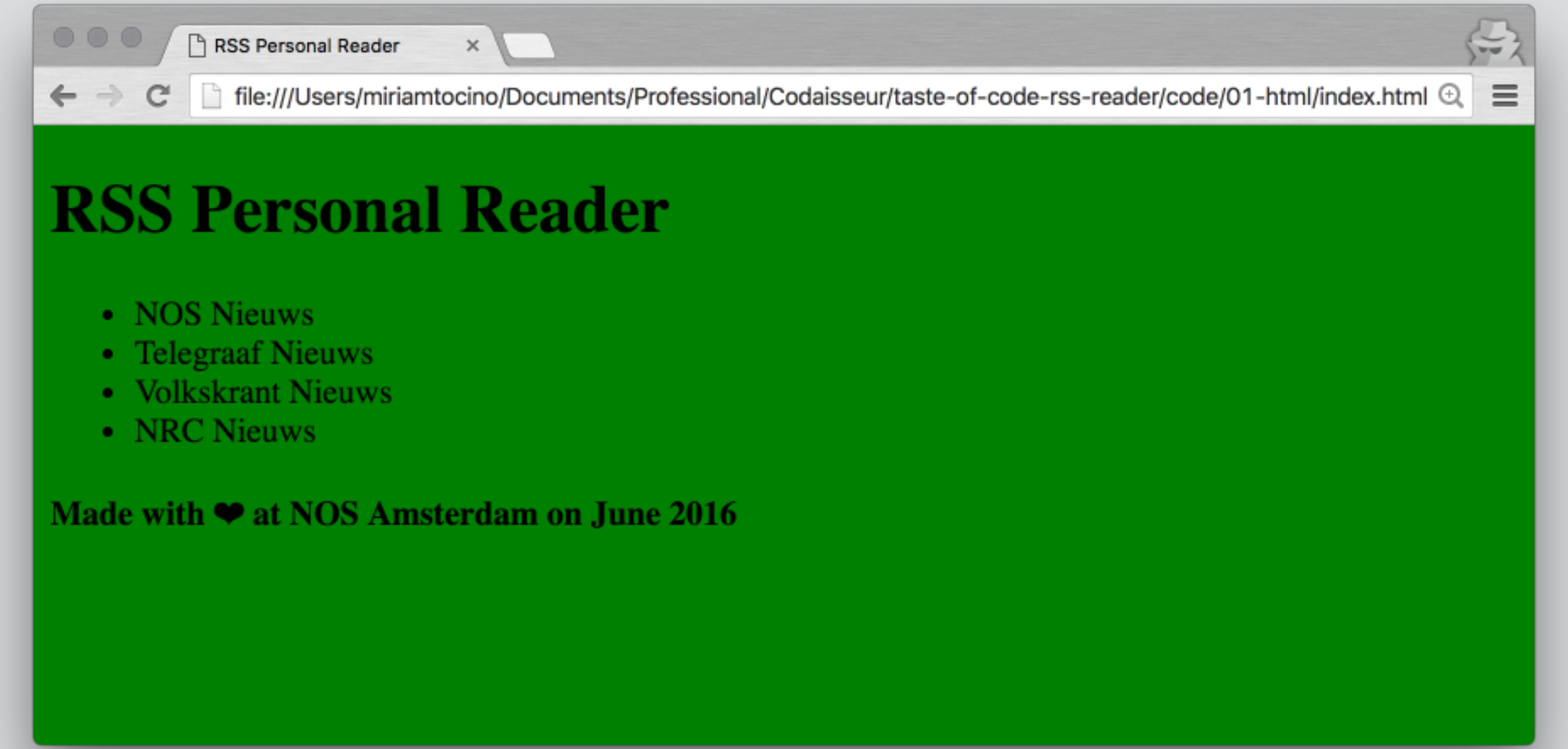
- Structure with HTML
- Styling with CSS
- Happiness with Lunch

✎ Exercise

Background color

Change the background color of the web page to green.

✎ Exercise



RSS Personal Reader
file:///Users/miriamtocino/Documents/Professional/Codaisseur/taste-of-code-rss-reader/code/01-html/index.html

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CSS Selectors

Select element on your site
by its class name.

index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Taste of Code</title>

    <style>
      .warning {
        color: red;
      }
    </style>

  </head>
  <body>
    <h1 class=“warning”>Agenda</h1>
  </body>
</html>
```

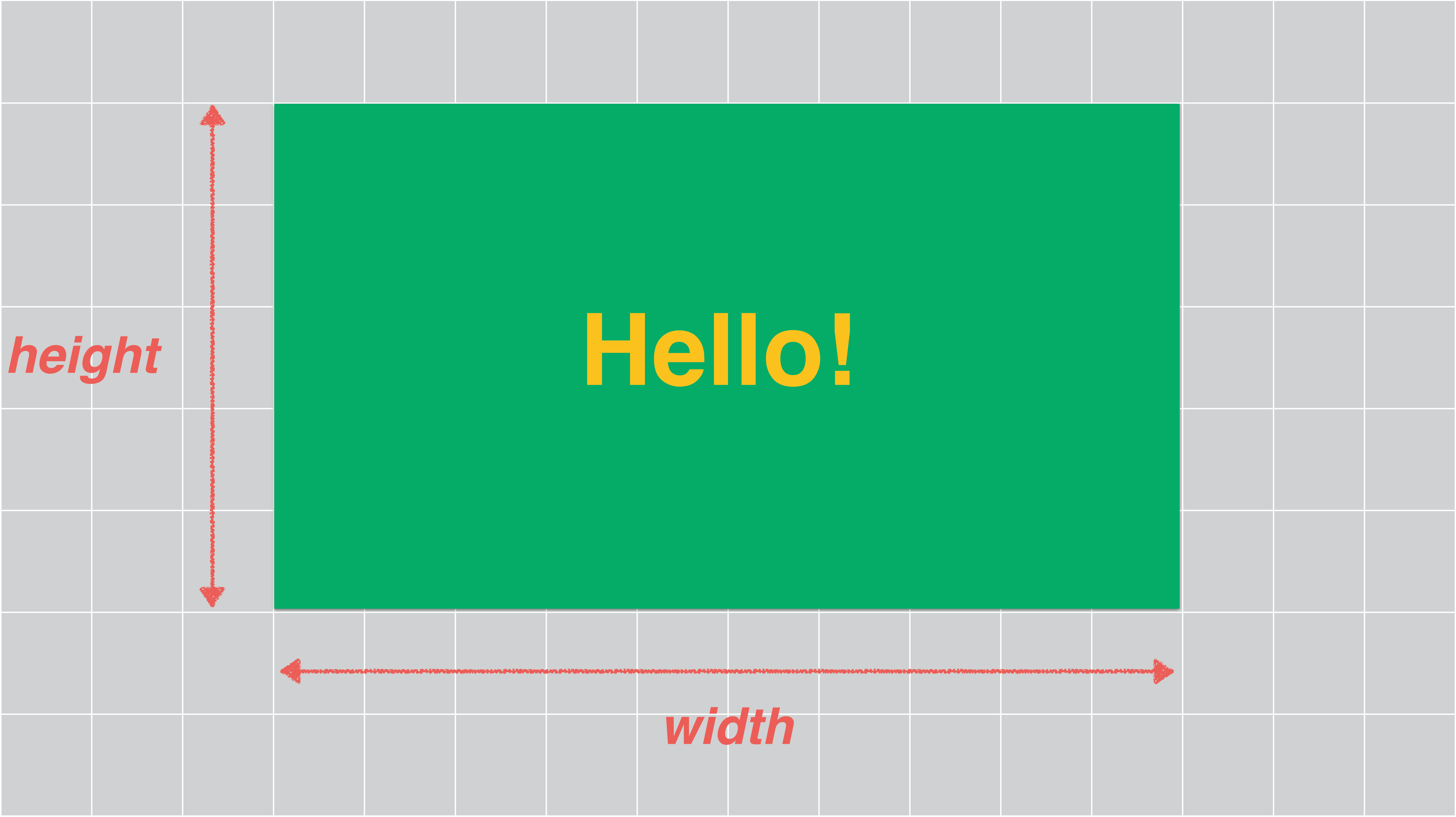
✎ Exercise

Warning

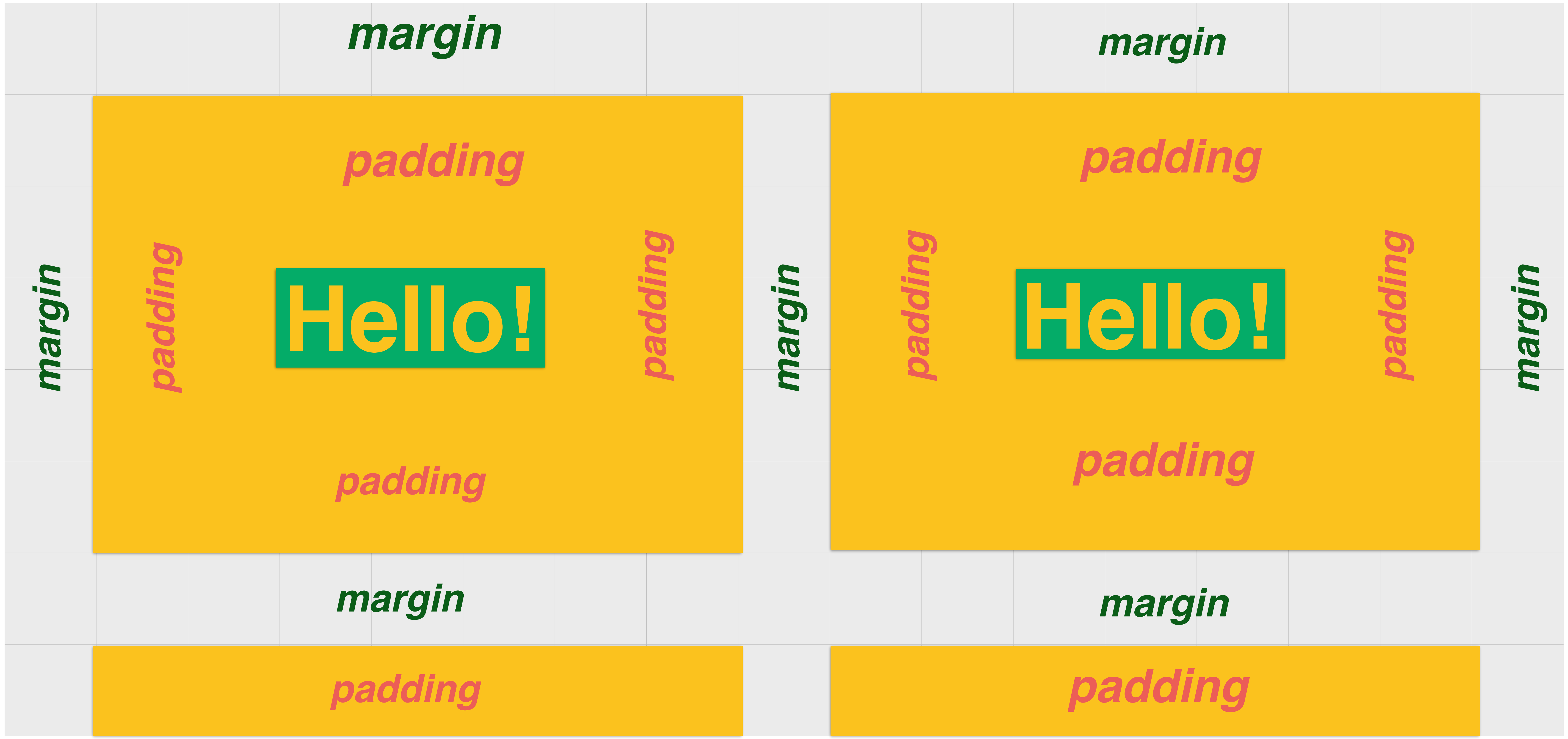
Apply the warning class to the main heading in your web page and change its color.

Padding & Margin in Pixels

A screen consists of pixels



Padding & Margin in Pixels



Padding & Margin in Pixels

css/styles.css

```css
p {
  padding: 30px;
  margin: 10px;
}

.main-title {
   padding: 10px;
}

#nos {
   margin: 25px;
}
```

Linking to CSS file from HTML page

Use the HTML `<link>` tag

Its **href** attribute tells the browser where the CSS file is stored.

index.html

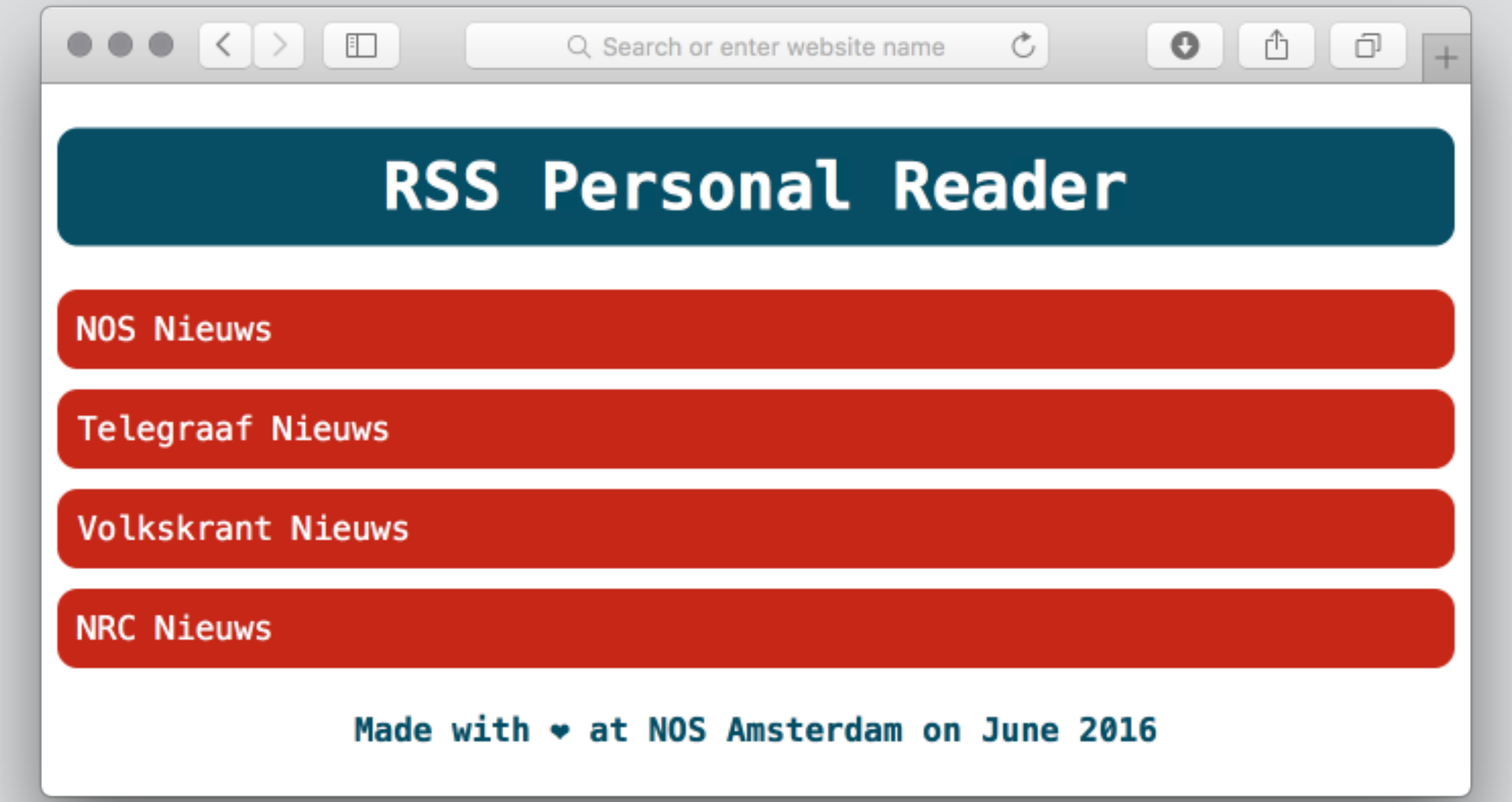
```
<!DOCTYPE html>
<html>
  <head>
    <title>RSS Personal Reader</title>
    <link rel="stylesheet" type="text/css" href="css/styles.css">
  </head>
  <body>
   …
  </body>
</html>
```

✎ Exercise

Styling

Apply some margins and paddings to the elements in your web page.

✎ Exercise



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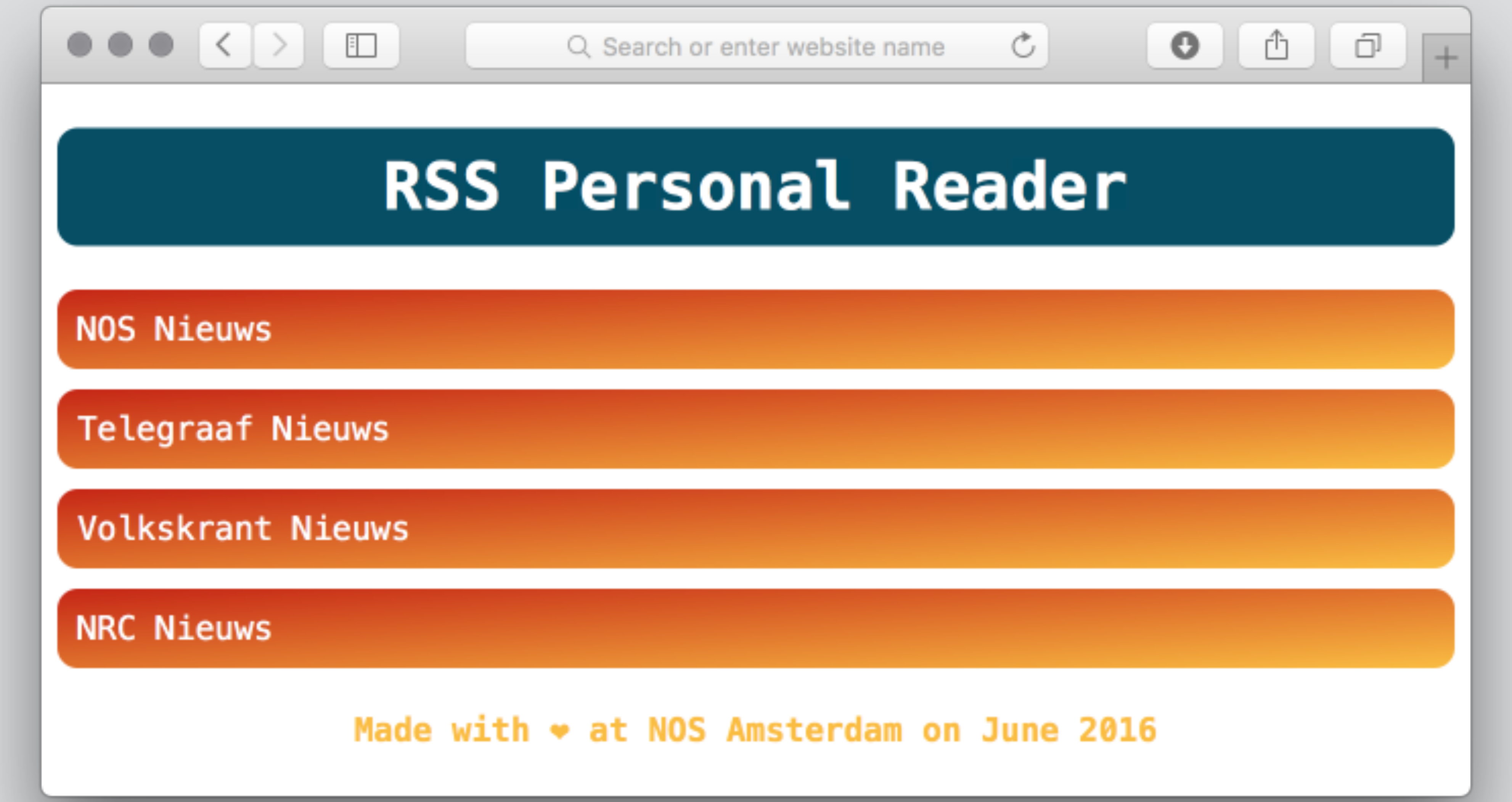

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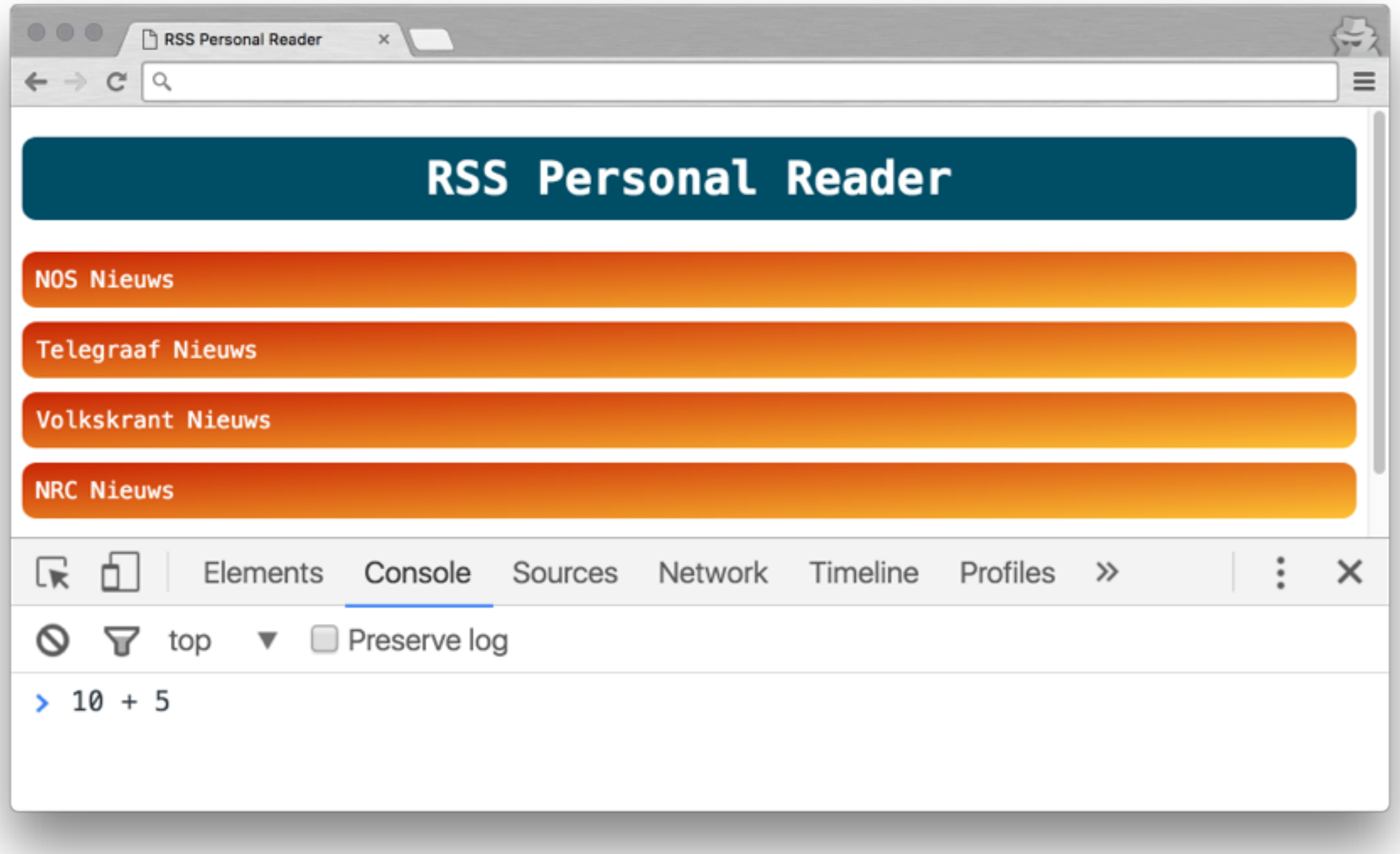
JavaScript

Behaviour layer

This is where we can change **how the page behaves**, adding **interactivity**.

JavaScript lives in your browser



```
> 10 + 5
```

Open JavaScript Console

CMD + ALT + J (Mac)

Control + Shift + J (Windows/Linux)

✎ Exercise

JavaScript Maths

Open the JavaScript console in your browser and use it to do some calculations.

How JavaScript makes pages more interactive

Access content

select elements that have a `warning` class

Modify content

add a paragraph of text after the first `<h1>` element

Program Rules or Instructions

write a script that writes some content depending on the day time

React to events

specify that a script should be run when a button is clicked

Objects (things) & properties (characteristics)

In computer programming,
each thing in the world
can be represented as an object.

Each object can have
its own **properties** and **methods**.

Objects (things) & properties (characteristics)

Window Object

The browser represents each window or tab using a **window** object.

javascript console

```
> window.location;
> window.alert("We are building a RSS Feed Reader!");
```

Objects (things) & properties (characteristics)

Document Object

The current web page loaded into each window is modelled using the **document** object.

javascript console

```
> document.title;
> document.write(“It is gonna be awesome”);
```

✎ Exercise

Exploring the Console

Open up an alert box.

Inspect web page title and location.

Write some text on the web page.

What is a Variable?

Variables can be thought of as **named containers**.

You can place data into these containers and refer to that data simply by **naming the container**.

What is a variable?

javascript console

```
// Store a string
> var text = “It is gonna be awesome”;
> document.write(text);

// Store a number
> var sum = 10 + 5;
> document.write(sum);

// Store a boolean (true/false)
> var buildingFeedReaderAtNOS = true;
> document.write(buildingFeedReaderAtNOS);
```

✎ Exercise

Storing feed urls in variables

Visit the site NEDERLANDSE RSS FEEDS.
Select some sites to follow.
Store each of the feed urls in a variable.

js/rss.js

```
var nosUrl = "http://feeds.nos.nl/nosjournaal";
```

What is a script and how to create one

A script is a **series of instructions** that a computer can follow step-by-step to achieve a goal.

First **state your goal** and then **list the tasks** that need to be completed to achieve it.

Creating your first script

Greeting with JavaScript

This script adds a greeting into an HTML page.

The greeting changes depending on the time.

js/greetings.js

```
var today = new Date();
var hourNow = today.getHours();
var greeting;

if (hourNow > 18) {
    greeting = 'Good evening!';
} else if (hourNow > 12) {
    greeting = 'Good afternoon!';
} else if (hourNow > 0) {
    greeting = 'Good morning!';
} else {
    greeting = 'Welcome!';
}

document.write('<h3>' + greeting + '</h3>');
```

Linking to JavaScript file from HTML page

Use the HTML <script> tag

Its src attribute tells the browser where the JavaScript file is stored.

index.html

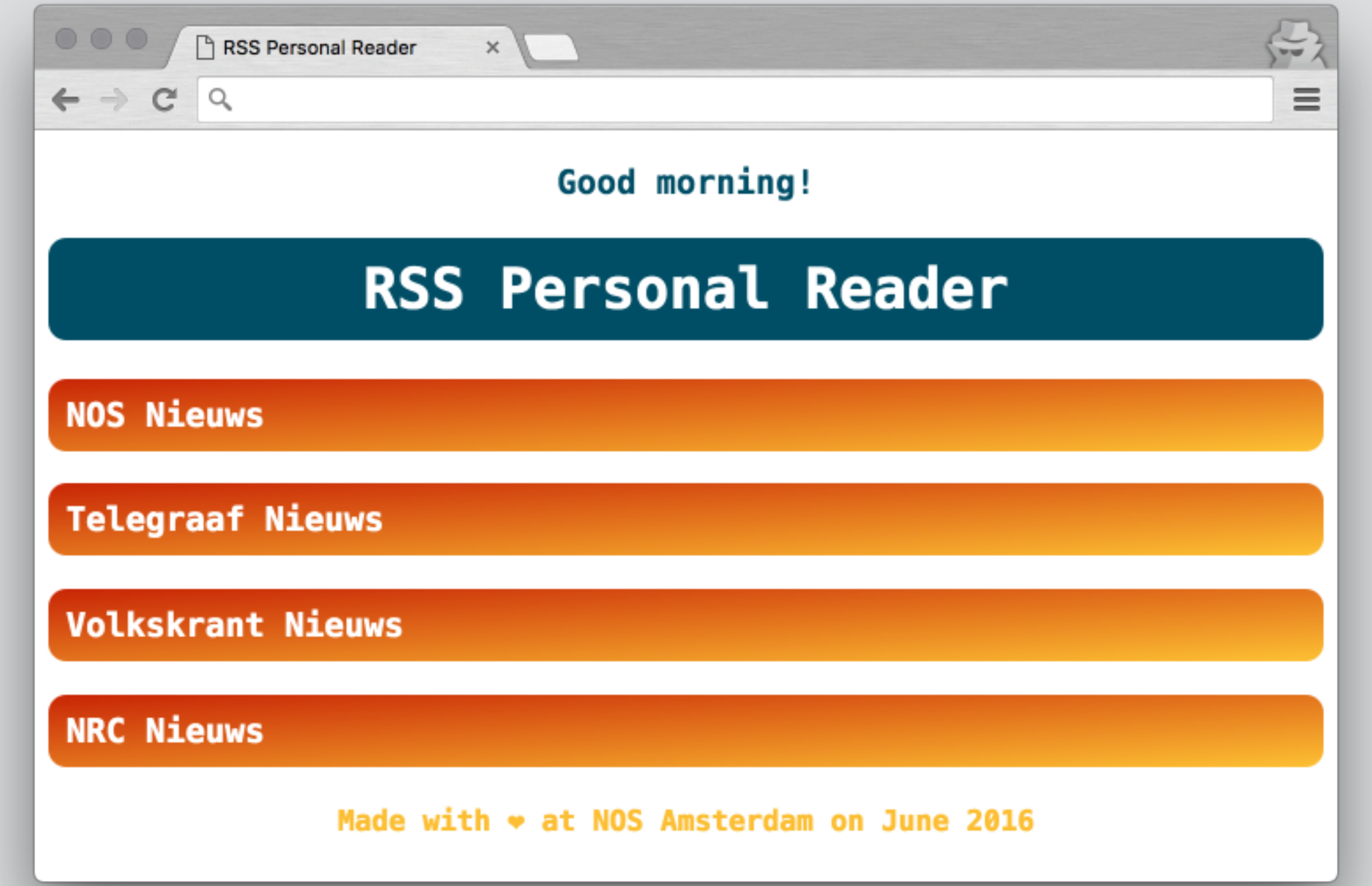
```
<!DOCTYPE html>
<html>
  <head>
    <title>RSS Personal Reader</title>
    <link rel="stylesheet" type="text/css"
    href="css/styles.css">
  </head>
  <body>
    <script src="js/greeting.js"></script>
    <h1 class="title">
      RSS Personal Reader
    </h1>
  </body>
</html>
```

✎ Exercise

Greeting with JavaScript

Add any message you wish
at the top of your web page
depending on the day time.

✎ Exercise



RSS Personal Reader

Good morning!

RSS Personal Reader

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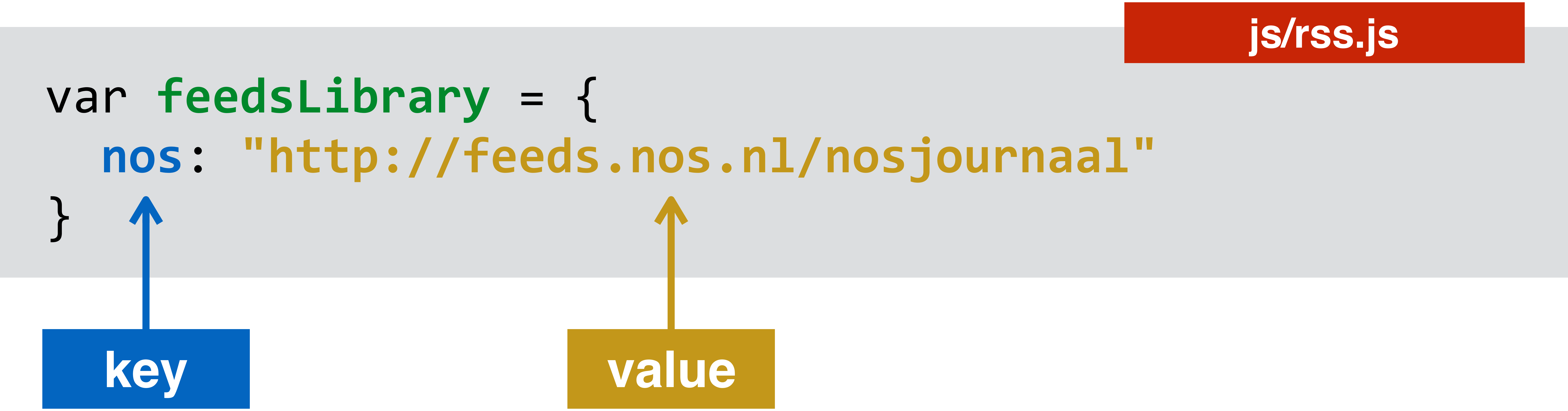
What is an Object?

Objects group together a **set of variables**
to **create a model** of something
you would recognize from the real world.

In an object,
variables become known as **properties**.

What is an Object?

Example of an object could be
a library where a **collection of feed urls**
are stored, categorized by site.



js/rss.js

```
var feedsLibrary = {
  nos: "http://feeds.nos.nl/nosjournaal"
}
```

Access & update text / markup with innerHTML

You can select any element in the HTML by selecting its **class** or **id** attribute.

How to show the ***nosUrl*** *value within the* ***nos*** *unordered list?*

index.html

```html
<!DOCTYPE html>
<html>
  <head>
    <title>RSS Personal Reader</title>
    <link rel="stylesheet" type="text/css"
    href="css/styles.css">
  </head>

  <body>
    …
    <ul id="nos"></ul>
    <script src="js/rss.js"></script>
  </body>
</html>
```

Access & update text / markup with innerHTML

js/rss.js

```
var nosUrl = "http://feeds.nos.nl/nosjournaal";

var feedsLibrary = {
  nos: nosUrl
};

var ulNos = document.getElementById(‘nos’);

ulNos.innerHTML = '<a href="' + feedsLibrary.nos + '">'
                  + feedsLibrary.nos +'</a>';
```

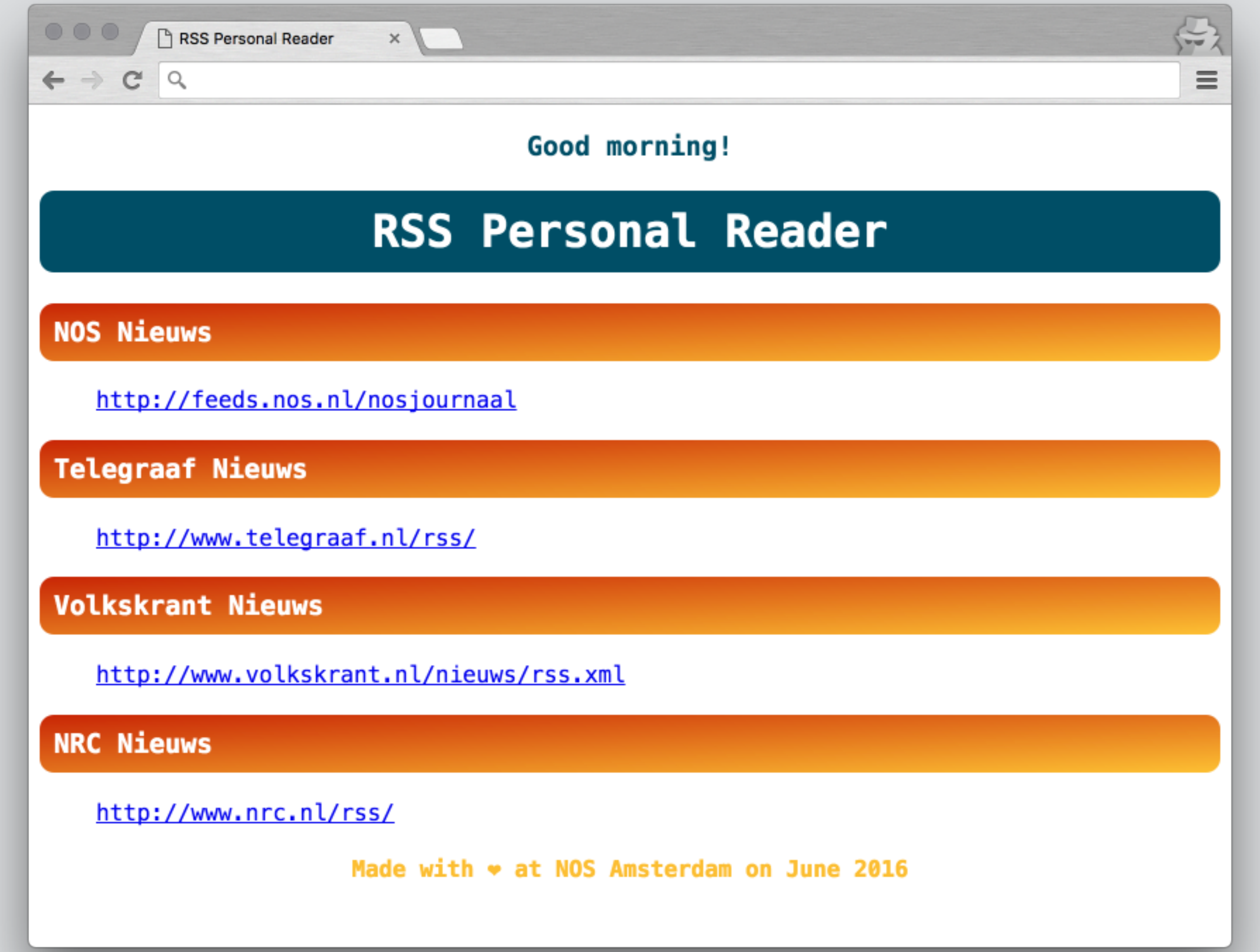
✎ Exercise

Rendering feed URLs with JavaScript

Show each of the feed URLs
stored in the feedLibrary object
under its corresponding unordered list.

Make these links to open in a different tab
by themselves.

✎ Exercise



Good morning!

RSS Personal Reader

NOS Nieuws

http://feeds.nos.nl/nosjournaal

Telegraaf Nieuws

http://www.telegraaf.nl/rss/

Volkskrant Nieuws

http://www.volkskrant.nl/nieuws/rss.xml

NRC Nieuws

http://www.nrc.nl/rss/

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jQuery

Easier JavaScript

Achieve common JavaScript tasks **quickly and consistently**, across all major browsers.

Find elements using CSS-style selectors

Same output, different syntax

js/rss.js

```
// JavaScript
var ulNos = document.getElementById(‘nos’);
ulNos.innerHTML = '<a href="' + feedsLibrary.nos + '">NOS Feeds</a>';


// jQuery
var ulNos = $('ul#nos');
ulNos.html('<a href="' + feedsLibrary.nos + '">NOS Feeds</a>');
```

Include jQuery in your page

index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>RSS Personal Reader</title>
    <link rel="stylesheet" type="text/css" href=“css/styles.css">
 </head>
  <body>
    <!-- ... –>

    <script src="http://code.jquery.com/jquery-1.12.4.min.js"></script>
    <script src="js/rss.js"></script>
  </body>
</html>
```

✎ Exercise

Rendering feed URLs with JavaScript

Add jQuery to your web page.

Rewrite the **js/rss.js** file
with the jQuery syntax.

Working with each property in an object

jQuery allows you to **loop**
through the properties of an object,
using the **.each()** method.

Often you will want to perform
a **series of actions** on each of the elements.

Working with each property in an object

js/rss.js

```
var ulNos = $('#nos');
ulNos.html('<a href="' + feedsLibrary.nos + '">NOS</a>');

var ulTelegraaf = $('#telegraaf');
ulTelegraaf.html('<a href="' + feedsLibrary.telegraaf + '">Telegraaf </a>');

var ulVolkskrant = $('#volkskrant');
ulVolkskrant.html('<a href="' + feedsLibrary.volkskrant + '">Volkskrant</a>');

var ulNrc = $('#nrc');
ulNrc.html('<a href="' + feedsLibrary.nrc + '">NRC</a>');
```

Working with each property in an object

js/rss.js

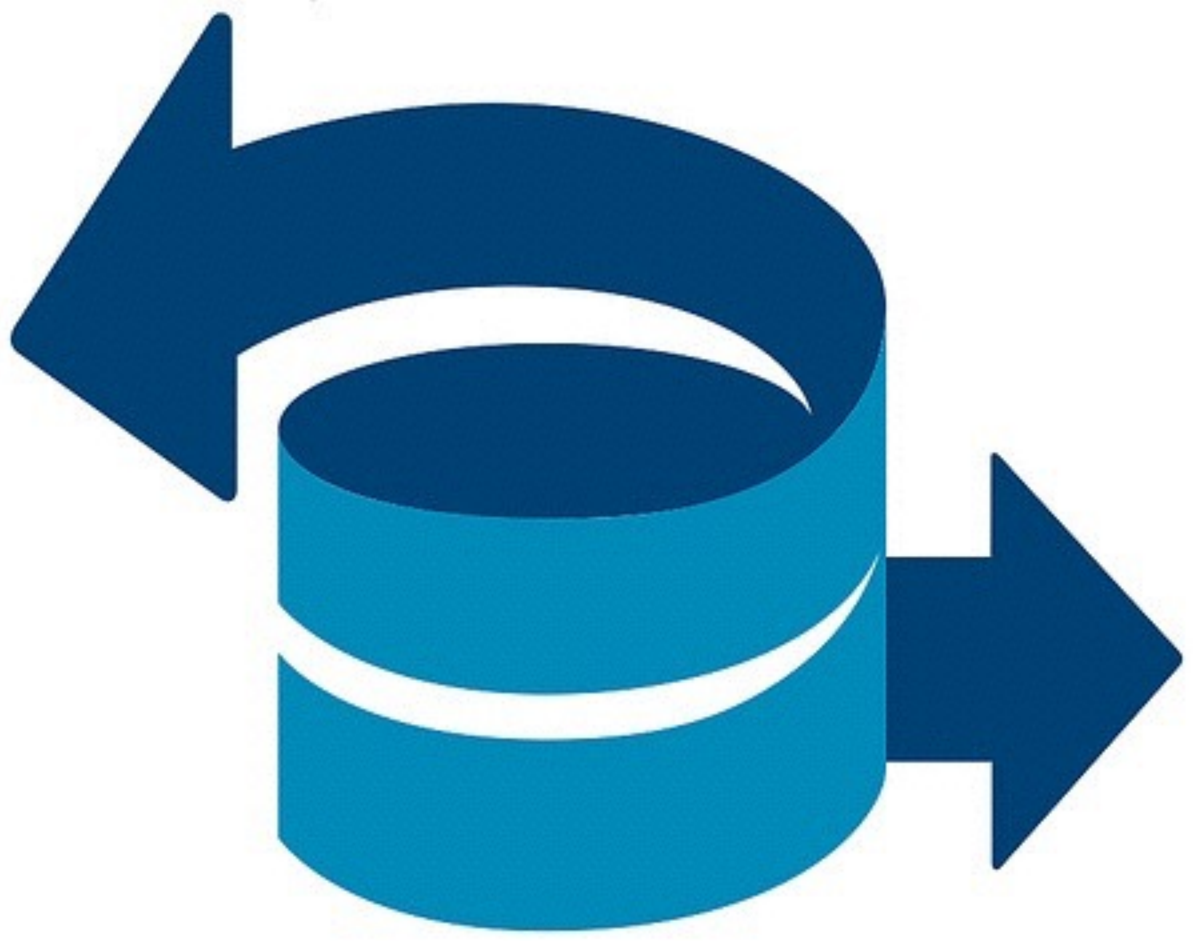
```
var feedsLibrary = {
  nos: "http://feeds.nos.nl/nosjournaal",
  telegraaf: "http://www.telegraaf.nl/rss/",
  volkskrant: "http://www.volkskrant.nl/nieuws/rss.xml",
  nrc: "http://www.nrc.nl/rss/",
};

$.each(feedsLibrary, function(key, value) {
  var ulElement = $('#' + key);
  ulElement.html('<a href="' + value + '">' + value +'</a>');
});
```

✎ Exercise

Looping through feedsLibrary

Use the **.each()** method to loop through the **feedsLibrary** and render the feed urls in your web page.

You web page should end up looking the same.



YQL

Yahoo Query Language

Query, filter, and combine **data across the web** through a single interface.

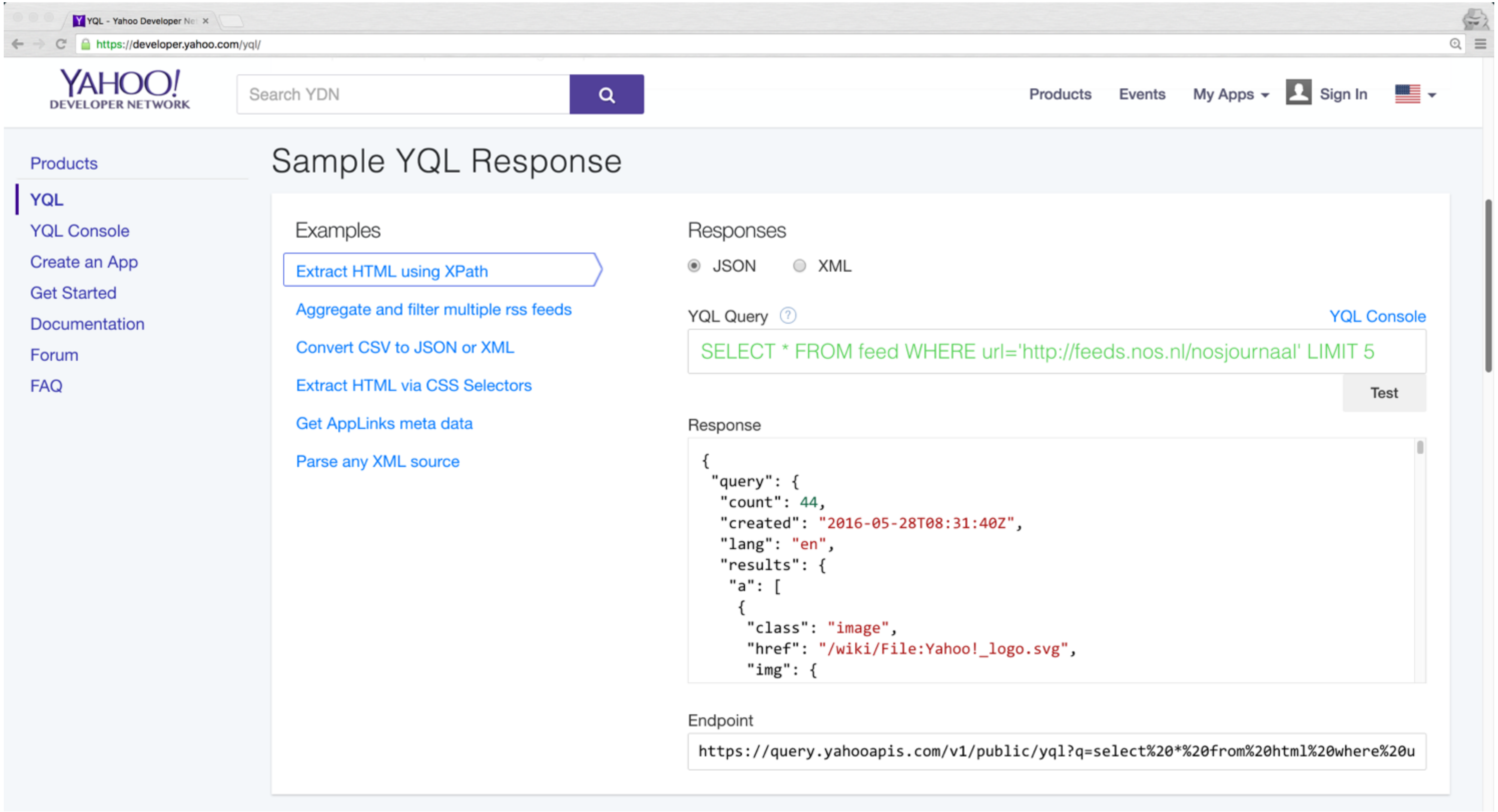
Exploring YQL

Our purpose

Grab the RSS feed for each of the sites, passing them through the **query string**.

We will be using the **JSON** form of the data.

Exploring YQL



Sample YQL Response

Examples

- Extract HTML using XPath
- Aggregate and filter multiple rss feeds
- Convert CSV to JSON or XML
- Extract HTML via CSS Selectors
- Get AppLinks meta data
- Parse any XML source

Responses

● JSON ○ XML

YQL Query

```
SELECT * FROM feed WHERE url='http://feeds.nos.nl/nosjournaal' LIMIT 5
```

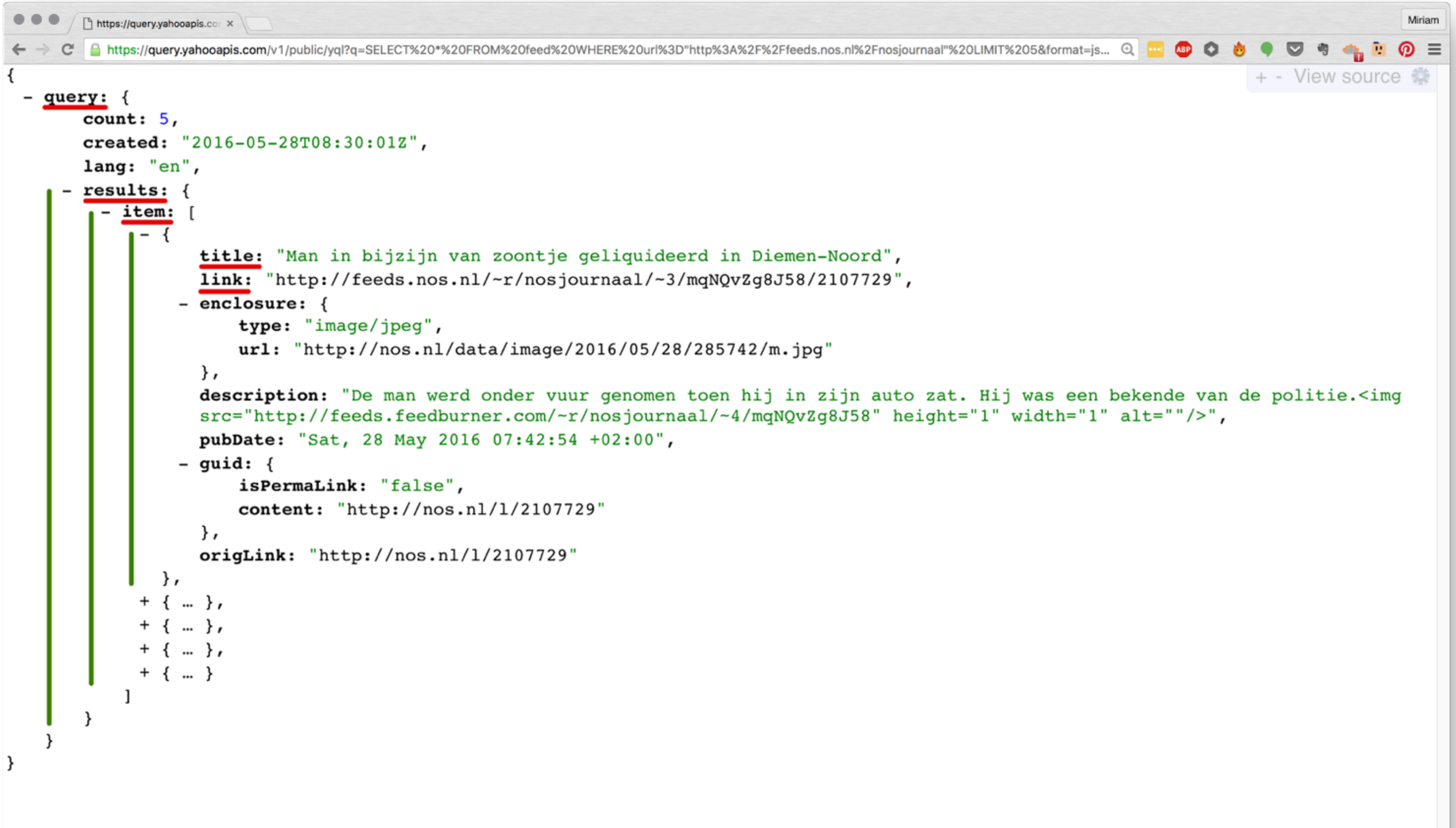
Response

```
{
 "query": {
  "count": 44,
  "created": "2016-05-28T08:31:40Z",
  "lang": "en",
  "results": {
   "a": [
    {
     "class": "image",
     "href": "/wiki/File:Yahoo!_logo.svg",
     "img": {
```

Endpoint

```
https://query.yahooapis.com/v1/public/yql?q=select%20*%20from%20html%20where%20u
```

Visiting the endpoint



https://query.yahooapis.com/v1/public/yql?q=SELECT%20*%20FROM%20feed%20WHERE%20url%3D"http%3A%2F%2Ffeeds.nos.nl%2Fnosjournaal"%20LIMIT%205&format=js...

```
{
 - query: {
       count: 5,
       created: "2016-05-28T08:30:01Z",
       lang: "en",
     - results: {
         - item: [
             - {
                   title: "Man in bijzijn van zoontje geliquideerd in Diemen-Noord",
                   link: "http://feeds.nos.nl/~r/nosjournaal/~3/mqNQvZg8J58/2107729",
                 - enclosure: {
                       type: "image/jpeg",
                       url: "http://nos.nl/data/image/2016/05/28/285742/m.jpg"
                   },
                   description: "De man werd onder vuur genomen toen hij in zijn auto zat. Hij was een bekende van de politie.<img
                   src="http://feeds.feedburner.com/~r/nosjournaal/~4/mqNQvZg8J58" height="1" width="1" alt=""/>",
                   pubDate: "Sat, 28 May 2016 07:42:54 +02:00",
                 - guid: {
                       isPermaLink: "false",
                       content: "http://nos.nl/l/2107729"
                   },
                   origLink: "http://nos.nl/l/2107729"
               },
             + { … },
             + { … },
             + { … },
             + { … }
           ]
       }
   }
}
```

Building up the query string

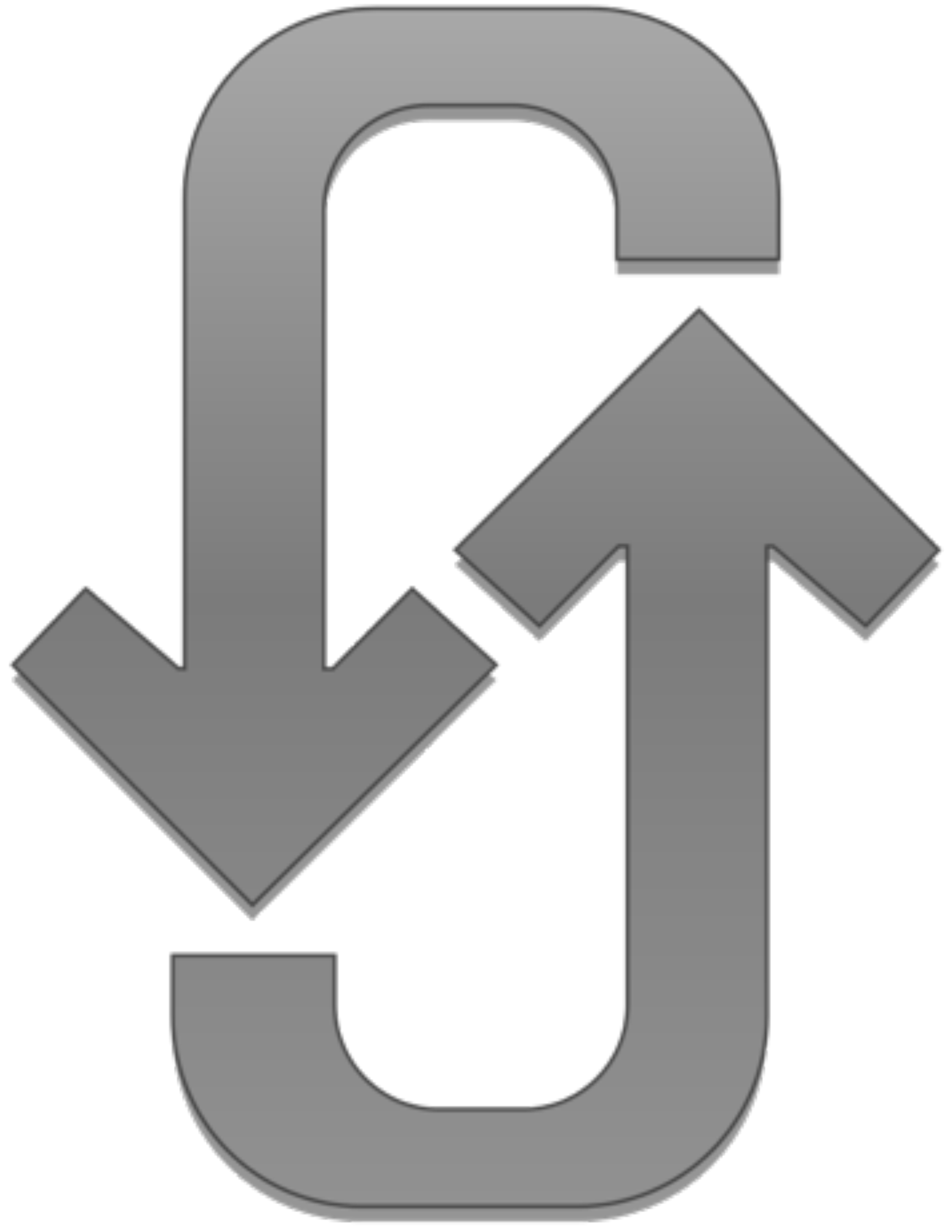
yahoo sql language

```
SELECT * FROM feed WHERE url="path/to/rss/feed" LIMIT 5
```

✎ Exercise

Visiting the Endpoints

Check out the different endpoints for the sites that you stored under the **feedsLibrary**.

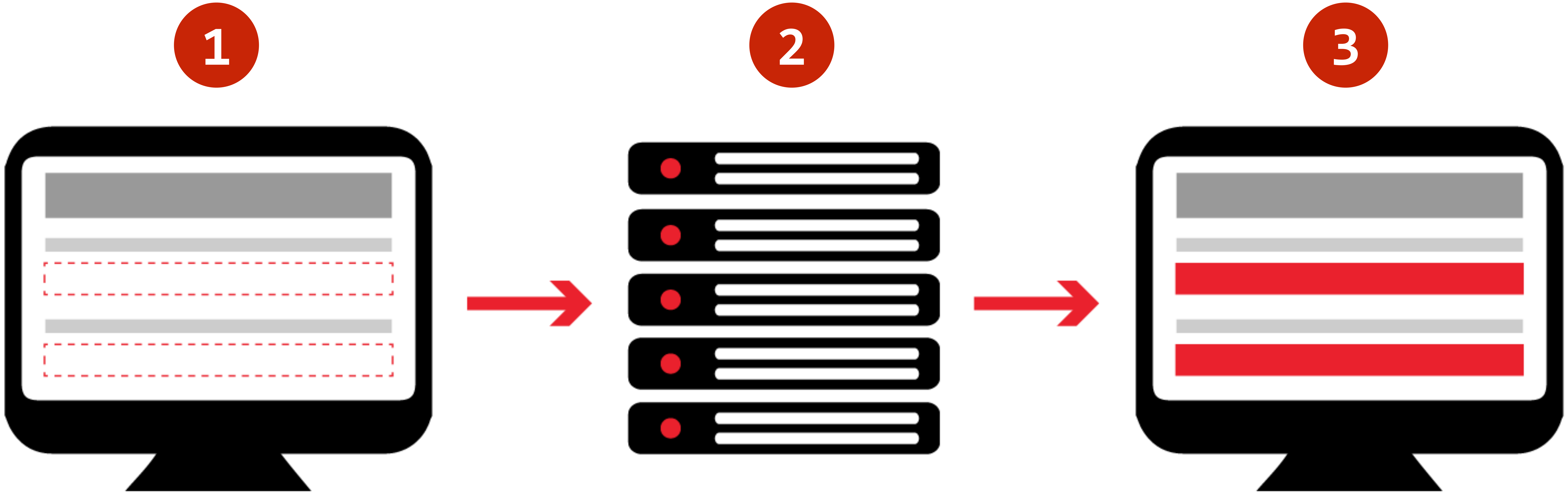


Ajax

Requesting Information

The **browser requests information** from a web server using Ajax.

How Ajax Works



THE REQUEST

The browser request
information from the server.

ON THE SERVER

The server responds
with data (JSON).

THE RESPONSE

The browser processes content
and adds it to the page.

Building the path for the request

https://query.yahooapis.com/v1/public/yql?q=SELECT%20*%20FROM%20feed%20WHERE%20url%3D%27http%3A%2F%2Ffeeds.nos.nl%2Fnosjournaal%27%20LIMIT%205&format=json

js/rss.js

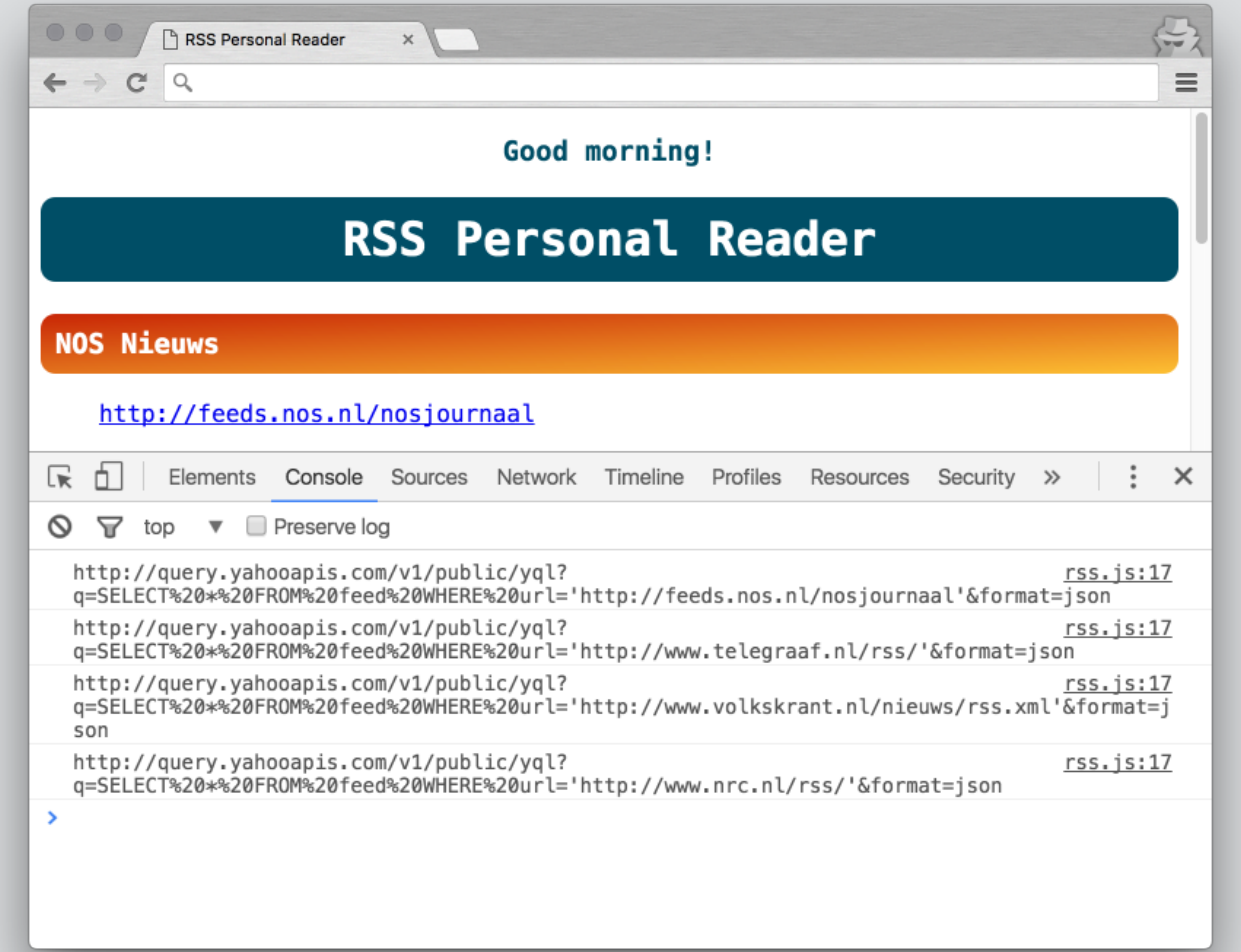
```
var baseUrl = "http://query.yahooapis.com/v1/public/yql?q=";

var queryString = encodeURI
                 ("SELECT * FROM feed WHERE url='" + nosUrl + "' LIMIT 5");

var format = "&format=json";

var rssFeedPath = baseUrl.concat(queryString, format);
```

✎ Exercise

Printing out the rss feeds paths

Apply everything you know of YQL and Ajax
to print out the path for each of the sites
that you are following in the JavaScript console.

✎ Exercise



Good morning!

RSS Personal Reader

NOS Nieuws

http://feeds.nos.nl/nosjournaal

```
http://query.yahooapis.com/v1/public/yql?                                      rss.js:17
q=SELECT%20*%20FROM%20feed%20WHERE%20url='http://feeds.nos.nl/nosjournaal'&format=json
http://query.yahooapis.com/v1/public/yql?                                      rss.js:17
q=SELECT%20*%20FROM%20feed%20WHERE%20url='http://www.telegraaf.nl/rss/'&format=json
http://query.yahooapis.com/v1/public/yql?                                      rss.js:17
q=SELECT%20*%20FROM%20feed%20WHERE%20url='http://www.volkskrant.nl/nieuws/rss.xml'&format=j
son
http://query.yahooapis.com/v1/public/yql?                                      rss.js:17
q=SELECT%20*%20FROM%20feed%20WHERE%20url='http://www.nrc.nl/rss/'&format=json
>
```

Handling Ajax Requests & Responses

jQuery provides several methods that handle Ajax requests.

In this case we will need to load JSON data from a web server. The **.getJSON()** method is the one that helps us doing so.

Handling Ajax Requests & Responses

```
     url = where the data is fetched from
callback = function called when data returned
```

js/rss.js

```
$.getJSON(url, function(response) {
  // Do something with the response
});
```

callback

✎ Exercise

Printing out the response

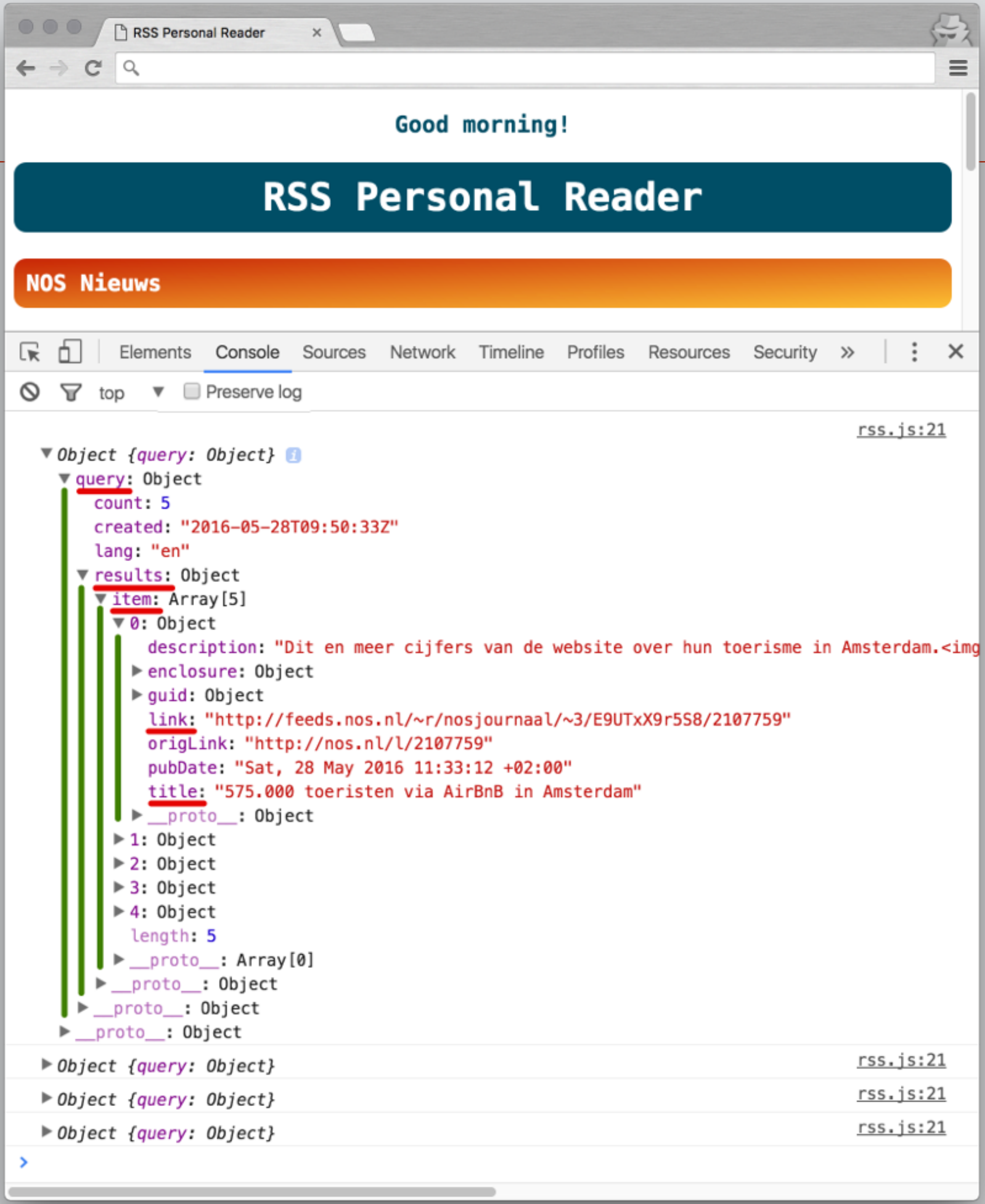
Using the .getJSON() method, print out the value of the response coming from the web server into the JavaScript console for each of the rss feeds paths.

Print out also the values of response.query, response.query.results and response.query.results.item.

✎ Exercise

Print out the values of:

```
response.query
response.query.results
response.query.results.item
```



Good morning!

RSS Personal Reader

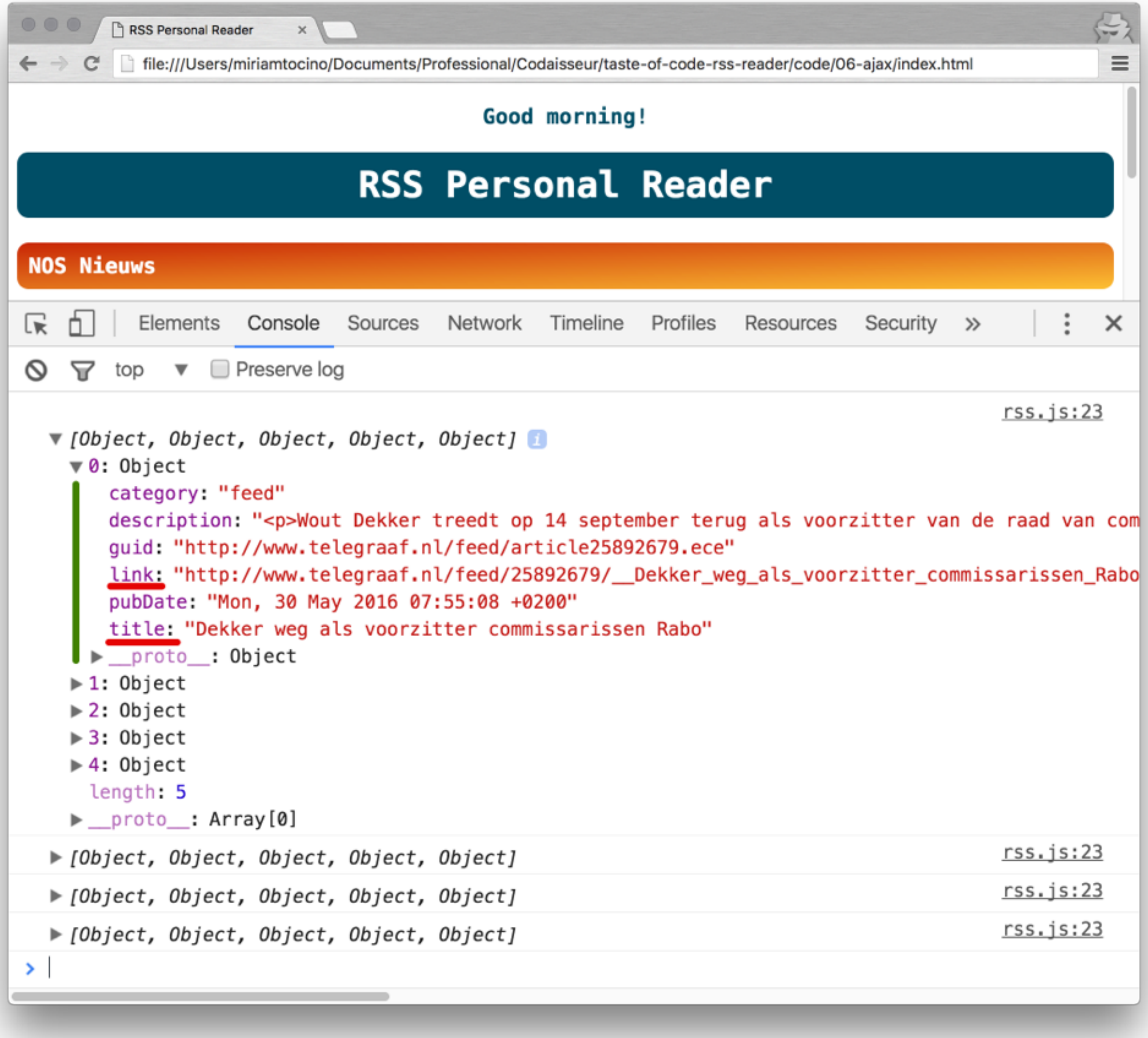
NOS Nieuws

```
                                                                          rss.js:21
▼Object {query: Object}
 ▼query: Object
    count: 5
    created: "2016-05-28T09:50:33Z"
    lang: "en"
  ▼results: Object
   ▼item: Array[5]
    ▼0: Object
       description: "Dit en meer cijfers van de website over hun toerisme in Amsterdam.<img
      ▶enclosure: Object
      ▶guid: Object
       link: "http://feeds.nos.nl/~r/nosjournaal/~3/E9UTxX9r5S8/2107759"
       origLink: "http://nos.nl/l/2107759"
       pubDate: "Sat, 28 May 2016 11:33:12 +02:00"
       title: "575.000 toeristen via AirBnB in Amsterdam"
      ▶__proto__: Object
    ▶1: Object
    ▶2: Object
    ▶3: Object
    ▶4: Object
     length: 5
    ▶__proto__: Array[0]
   ▶__proto__: Object
  ▶__proto__: Object
 ▶__proto__: Object
▶Object {query: Object}                                                   rss.js:21
▶Object {query: Object}                                                   rss.js:21
▶Object {query: Object}                                                   rss.js:21
>
```

Retrieving articles title and link

`response.query.results.item` is an array of objects.

Arrays are just another way of storing data as a collection.



```
                                                                                          rss.js:23
▼ [Object, Object, Object, Object, Object]
  ▼ 0: Object
      category: "feed"
      description: "<p>Wout Dekker treedt op 14 september terug als voorzitter van de raad van com
      guid: "http://www.telegraaf.nl/feed/article25892679.ece"
      link: "http://www.telegraaf.nl/feed/25892679/__Dekker_weg_als_voorzitter_commissarissen_Rabo
      pubDate: "Mon, 30 May 2016 07:55:08 +0200"
      title: "Dekker weg als voorzitter commissarissen Rabo"
    ▶ __proto__: Object
  ▶ 1: Object
  ▶ 2: Object
  ▶ 3: Object
  ▶ 4: Object
    length: 5
  ▶ __proto__: Array[0]
▶ [Object, Object, Object, Object, Object]                                                rss.js:23
▶ [Object, Object, Object, Object, Object]                                                rss.js:23
▶ [Object, Object, Object, Object, Object]                                                rss.js:23
>
```

Retrieving articles title and link

the response.query.results.item array
stores a collection of articles

js/rss.js

```
var feedItems = response.query.results.item;

// First item data
link1 = feedItems[0].link;
title1 = feedItems[0].title;

// Second item data
link2 = feedItems[1].link;
title2 = feedItems[1].title;

// ...
```

[0], [1], [2] …

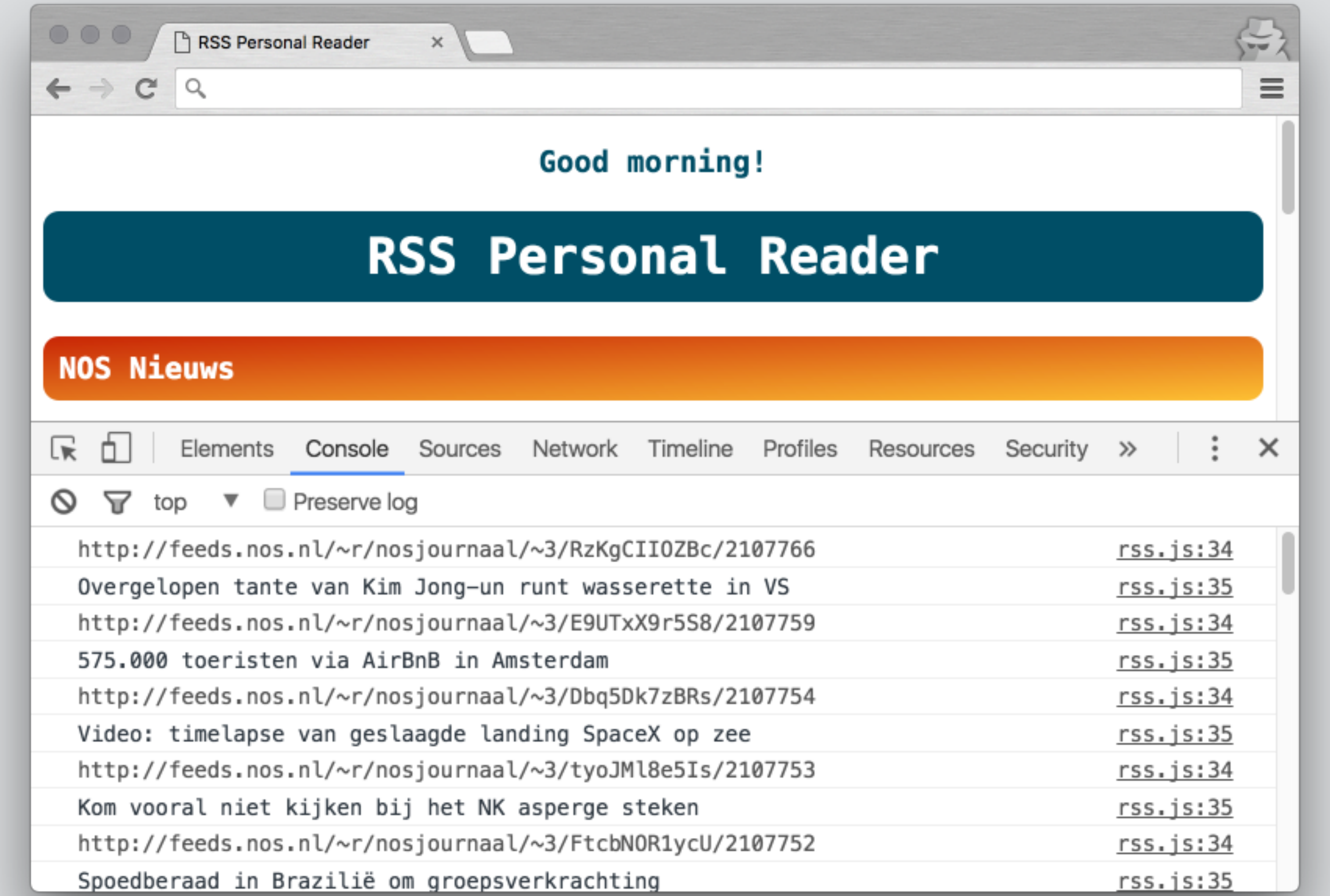
are called index
and represents the element position
within the array

✎ Exercise

Printing out links and titles

Go ahead and print out each of the articles links and titles in the console.

Exercise



Good morning!

RSS Personal Reader

NOS Nieuws

```
http://feeds.nos.nl/~r/nosjournaal/~3/RzKgCIIOZBc/2107766                rss.js:34
Overgelopen tante van Kim Jong-un runt wasserette in VS                  rss.js:35
http://feeds.nos.nl/~r/nosjournaal/~3/E9UTxX9r5S8/2107759                rss.js:34
575.000 toeristen via AirBnB in Amsterdam                                rss.js:35
http://feeds.nos.nl/~r/nosjournaal/~3/Dbq5Dk7zBRs/2107754                rss.js:34
Video: timelapse van geslaagde landing SpaceX op zee                     rss.js:35
http://feeds.nos.nl/~r/nosjournaal/~3/tyoJMl8e5Is/2107753                rss.js:34
Kom vooral niet kijken bij het NK asperge steken                         rss.js:35
http://feeds.nos.nl/~r/nosjournaal/~3/FtcbNOR1ycU/2107752                rss.js:34
Spoedberaad in Brazilië om groepsverkrachting                            rss.js:35
```

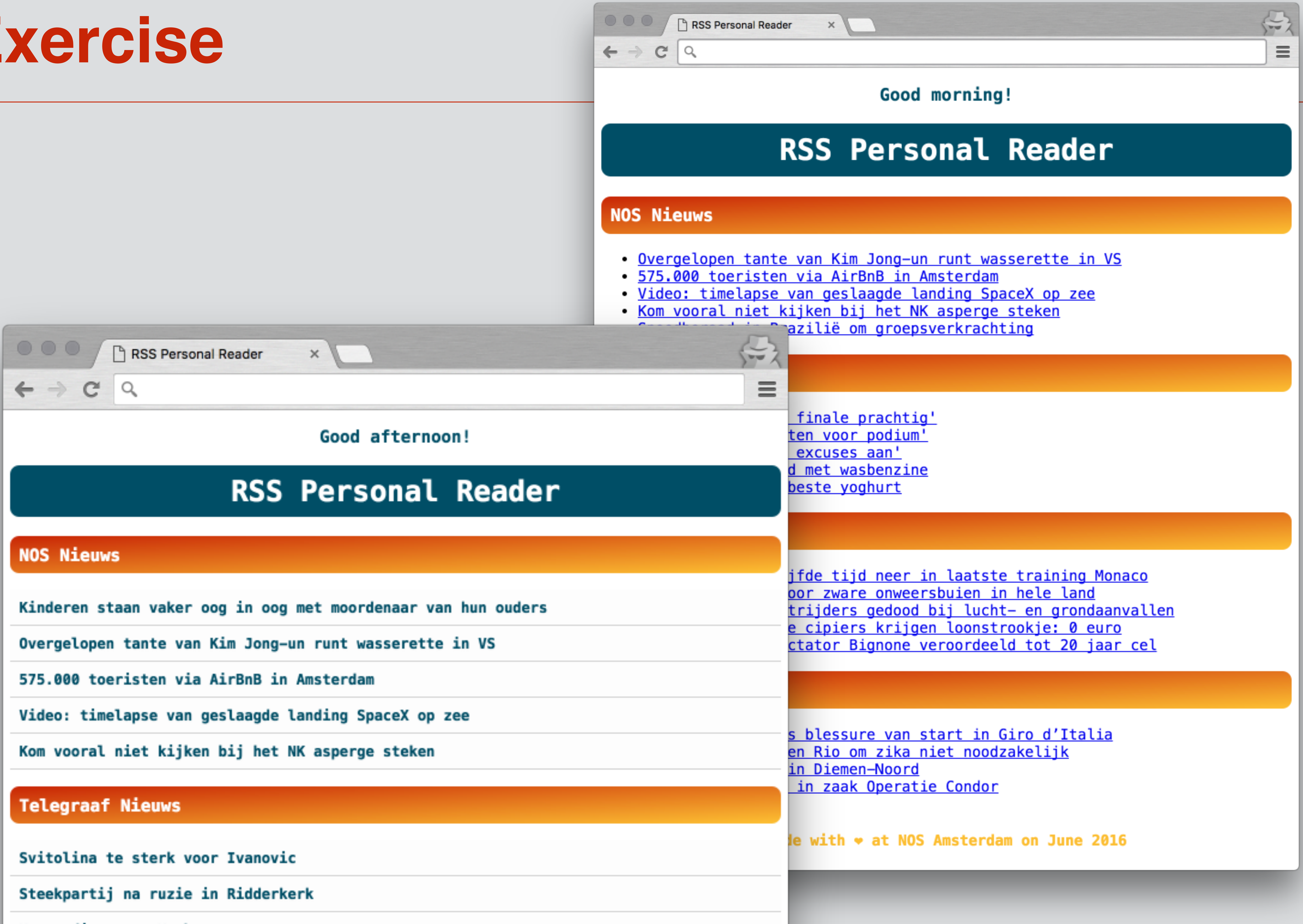
✎ Exercise

Rendering links and titles

Render a list item including a link
to each of the articles for every site site.

Make it so that every link
opens in a new tab in your browser.

✎ Exercise



Good morning!

RSS Personal Reader

NOS Nieuws

- Overgelopen tante van Kim Jong-un runt wasserette in VS
- 575.000 toeristen via AirBnB in Amsterdam
- Video: timelapse van geslaagde landing SpaceX op zee
- Kom vooral niet kijken bij het NK asperge steken
- azilië om groepsverkrachting

finale prachtig'
ten voor podium'
excuses aan'
d met wasbenzine
beste yoghurt

jfde tijd neer in laatste training Monaco
oor zware onweersbuien in hele land
trijders gedood bij lucht- en grondaanvallen
e cipiers krijgen loonstrookje: 0 euro
ctator Bignone veroordeeld tot 20 jaar cel

s blessure van start in Giro d'Italia
en Rio om zika niet noodzakelijk
in Diemen-Noord
in zaak Operatie Condor

e with ❤ at NOS Amsterdam on June 2016

Good afternoon!

RSS Personal Reader

NOS Nieuws

Kinderen staan vaker oog in oog met moordenaar van hun ouders

Overgelopen tante van Kim Jong-un runt wasserette in VS

575.000 toeristen via AirBnB in Amsterdam

Video: timelapse van geslaagde landing SpaceX op zee

Kom vooral niet kijken bij het NK asperge steken

Telegraaf Nieuws

Svitolina te sterk voor Ivanovic

Steekpartij na ruzie in Ridderkerk