

# Web Scrapping using BeautifulSoup

In this demonstration we are extracting Europe's healthcare data from wikipedia, structuring it, cleaning it, and validating the gathered data.

In [2]:

```
#Importing the required Libraries
import numpy as np
import pandas as pd
import urllib.request as urllib2
# import requests as r
import re
import codecs
from bs4 import BeautifulSoup
import codecs
```

In [3]:

```
#we are looking to import table containing the healthcare data
#finding the 'class' attribute value of the element containing the table, element starts with tag 'table'
url='https://en.wikipedia.org/wiki/Healthcare_in_Europe'
res_obj=urllib2.urlopen(url)
htmlpage_as_list=res_obj.readlines()#gives a list of htmlpage code i.e content Lines in byteform
#we read line by line so as to search each line for required element's tag and attribute

res_obj.close()

htmlpage_as_list
```

Out[3]:

```
[b'<!DOCTYPE html>\n',
 b'<html class="client-nojs" lang="en" dir="ltr">\n',
 b'<head>\n',
 b'<meta charset="UTF-8"/>\n',
 b'<title>Healthcare in Europe - Wikipedia</title>\n',
 b'<script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":false,"wgSeparatorTransformTable":[],"wgDigitTransformTable":[],"wgDefaultDateFormat":"dmy","wgMonthNames":[],"wgRequestID":"c1bb628-9a92-4231-b34c-1d0aae88a792","wgCSPNonce":false,"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"wgPageName":"Healthcare_in_Europe","wgTitle":"Healthcare in Europe","wgCurRevisionId":1108727875,"wgRevisionId":1108727875,"wgArticleId":15973120,"wgIsArticle":true,"wgIsRedirect":false,"wgAction":"view","wgUserName":null,"wgUserGroups":["*"],"wgCategories":["CS1 maint: url-status","Use dmy dates from December 2021","All articles with unsourced statements","Articles with unsourced statements from January 2021","Articles with unsourced statements from September 2022","Articles with LCCN identifiers","Health in Europe"]},\n',
 b'"wgPageContentLanguage":"en","wgPageContentModel":"wikitext","wgRelevantPageName":"Healthcare_in_Europe","wgRelevantArticleID":15973120,"wgIsProbablyEditable":true,"wgRelevantPageIsProbablyEditable":true,"wgRestrictionEdit":[],"wgRestrictionMove":[],"wgFlaggedRevsParams":{"tags":{"status":{"levels":1}}}, "wgVisualEditor":{"pageLanguageCode":"en","pageLanguageDir":"ltr","pageVariantFallbacks":"en"}, "wgMFDisplayWikibaseDescriptions":{"search":true,"watchlist":true,"tagline":false,"nearby":true}, "wgWMESchemaEditAttemptStepOversample":false,"wgWMEPageLength":20000,"wgNoticeProject":"wikipedia","wgVector2022PreviewPages":[],"wgMediaViewerOnClick":true,"wgMediaViewerEnabledByDefault":true,"wgPopupsFlags":10,"wgULSCurrentAutonym":"English","wgEditSubmitButtonLabelPublish":true,"wgCentralAuthMobileDomain":false,"wgULSPosition":"interlanguage","wgULSisCompactLinksEnabled":true,"wgWikibaseItemID":"Q5691262","GEHomepageSuggestedEditsEnableTopics":true,"wgGETopicsMatchModeEnabled":false},\n',
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 b'"ext.gadget.extra-toolbar-buttons","ext.gadget.switcher","ext.centralauth.centralautologin","ext.popups","ext.echo.centralauth","ext.uls.compactlinks","ext.uls.interface","ext.growthExperiments.SuggestedEditSession"];</script>\n',
 b'<script>(RLQ>window.RLQ||[]).push(function(){mw.loader.implement("user.options@12s5i",function($,jQuery,require,module){mw.user.tokens.set({"patrolToken":"+\\\\\\","watchToken":"+\\\\\\","csrfToken":"+\\\\\\"});});}</script>\n',
 b'<link rel="stylesheet" href="/w/load.php?lang=en&modules=ext.cite.styles%7Cext.uls.interlanguage%7Cext.visualEditor.desktopArticleTarget.noscript%7Cext.wikimediaBadges%7Cjquery.makeCollapsible.styles%7Cjquery.tablesorter.styles%7Cskins.vector.styles.legacy%7Cwikibase.client.init&only=styles&skin=vector"/>\n',
 b'<script async="" src="/w/load.php?lang=en&modules=startup&only=scripts&raw=1&skin=vector"></script>\n',
 b'<meta name="ResourceLoaderDynamicStyles" content="" />\n',
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 b'<meta name="referrer" content="origin-when-crossorigin"/>\n',
 b'<meta name="referrer" content="origin-when-cross-origin"/>\n',
 b'<meta name="robots" content="max-image-preview:standard"/>\n',
 b'<meta name="format-detection" content="telephone=no"/>\n',
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 b'<meta property="og:image:height" content="751"/>\n',
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 b'<meta property="og:image:width" content="640"/>\n',
 b'<meta property="og:image:height" content="401"/>\n',
 b'<meta name="viewport" content="width=1000"/>\n',
 b'<meta property="og:title" content="Healthcare in Europe - Wikipedia"/>\n',
 b'<meta property="og:type" content="website"/>\n',
 b'<link rel="preconnect" href="//upload.wikimedia.org"/>\n',
```

b'<link rel="alternate" media="only screen and (max-width: 720px)" href="//en.m.wikipedia.org/wiki/Healthcare\_in\_Europe"/>\n',  
b'<link rel="alternate" type="application/x-wiki" title="Edit this page" href="/w/index.php?title=Healthcare\_in\_Europe&action=edit"/>\n',  
b'<link rel="apple-touch-icon" href="/static/apple-touch/wikipedia.png"/>\n',  
b'<link rel="icon" href="/static/favicon/wikipedia.ico"/>\n',  
b'<link rel="search" type="application/opensearchdescription+xml" href="/w/opensearch\_desc.php" title="Wikipedia (en)"/>\n',  
b'<link rel="EditURI" type="application/rsd+xml" href="//en.wikipedia.org/w/api.php?action=rsd"/>\n',  
b'<link rel="license" href="https://creativecommons.org/licenses/by-sa/3.0/"/>\n',  
b'<link rel="canonical" href="https://en.wikipedia.org/wiki/Healthcare\_in\_Europe"/>\n',  
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b'<div id="mw-head-base" class="noprint"></div>\n',  
b'<div id="content" class="mw-body" role="main">\n',  
b'\t<a id="top"></a>\n',  
b'\t<div id="siteNotice"><!-- CentralNotice --><!--esi <esi:include src="/esitest-fa8a495983347898/content" /> --> </div>\n',  
b'\t<div class="mw-indicators">\n',  
b'\t</div>\n',  
b'\t<h1 id="firstHeading" class="firstHeading mw-first-heading"><span class="mw-page-title-main">Healthcare in Europe</span></h1>\n',  
b'\t<div id="bodyContent" class="vector-body">\n',  
b'\t\t<div id="siteSub" class="noprint">From Wikipedia, the free encyclopedia</div>\n',  
b'\t\t<div id="contentSub"></div>\n',  
b'\t\t<div id="contentSub2"></div>\n',  
b'\t\t</t>\n',  
b'\t\t<div id="jump-to-nav"></div>\n',  
b'\t\t<a class="mw-jump-link" href="#mw-head">Jump to navigation</a>\n',  
b'\t\t<a class="mw-jump-link" href="#searchInput">Jump to search</a>\n',  
b'\t\t<div id="mw-content-text" class="mw-body-content mw-content-ltr" lang="en" dir="ltr"><div class="mw-parser-output"><style data-mw-deduplicate="TemplateStyles:r1033289096">.mw-parser-output .hatnote{font-style:italic}.mw-parser-output div.hatnote{padding-left:1.6em;margin-bottom:0.5em}.mw-parser-output .hatnote i{font-style:normal}.mw-parser-output .hatnote+link+.hatnote{margin-top:-0.5em}</style><div role="note" class="hatnote navigation-not-searchable">See also: <a href="/wiki/Universal\_health\_coverage\_by\_country" class="mw-redirect" title="Universal health coverage by country">Universal health coverage by country</a></div>\n',  
b'<p class="mw-empty-elt">\n',  
b'</p>\n',  
b'<div class="thumb tright"><div class="thumbinner" style="width:222px;"><a href="/wiki/File:Carte\_Europ%C3%A9enne\_d%27Assurance\_Maladie\_France.jpg" class="image"></a> <div class="thumbcaption"><div class="magnify"><a href="/wiki/File:Carte\_Europ%C3%A9enne\_d%27Assurance\_Maladie\_France.jpg" class="internal" title="Enlarge"></a></div><a href="/wiki/European\_Health\_Insurance\_Card" title="European Health Insurance Card">European Health Insurance Card</a> (French version pictured)</div></div></div>\n',  
b'<p><b>Healthcare in Europe</b> is provided through a wide range of different systems run at individual <a href="/wiki/Nation" title="Nation">national</a> levels. Most European countries have a system of tightly regulated, competing private health insurance companies, with government subsidies available for citizens who cannot afford coverage.<sup id="cite\_ref-1" class="reference"><a href="#cite\_note-1">#91;1#93;</a></sup><sup id="cite\_ref-2" class="reference"><a href="#cite\_note-2">#91;2#93;</a></sup> Many <a href="/wiki/Europe" title="Europe">European</a> countries (and all <a href="/wiki/European\_Union" title="European Union">European Union</a> countries) offer their citizens a <a href="/wiki/European\_Health\_Insurance\_Card" title="European Health Insurance Card">European Health Insurance Card</a> which, on a reciprocal basis, provides insurance for emergency medical treatment insurance when visiting other participating European countries.<sup id="cite\_ref-3" class="reference"><a href="#cite\_note-3">#91;3#93;</a></sup></p>\n',  
b'</p>\n',  
b'<div id="toc" class="toc" role="navigation" aria-labelledby="mw-toc-heading"><input type="checkbox" role="button" id="toctogglecheckbox" class="toctogglecheckbox" style="display:none" /><div class="toctitle" lang="en" dir="ltr"><h2 id="mw-toc-heading">Contents</h2><span class="toctogglespan"><label class="toctogglelabel" for="toctogglecheckbox"></label></span></div>\n',  
b'\t<ul>\n',  
b'\t\t<li class="toclevel-1 tocsection-1"><a href="#European\_health"><span class="tocnumber">1</span> <span class="toctext">European health</span></a>\n',  
b'\t\t<ul>\n',  
b'\t\t\t<li class="toclevel-2 tocsection-2"><a href="#European\_Union"><span class="tocnumber">1.1</span> <span class="toctext">European Union</span></a></li>\n',  
b'\t\t\t<li class="toclevel-2 tocsection-3"><a href="#COVID-19\_pandemic"><span class="tocnumber">1.2</span> <span class="toctext">COVID-19 pandemic</span></a>\n',  
b'\t\t<ul>\n',  
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b'\t\t</ul>\n',  
b'\t\t</li>\n',  
b'\t\t<li class="toclevel-2 tocsection-5"><a href="#Life\_expectancy"><span class="tocnumber">1.3</span> <span class="toctext">Life expectancy</span></a></li>\n',  
b'\t\t<li class="toclevel-2 tocsection-6"><a href="#Vaccination\_rates"><span class="tocnumber">1.4</span> <span class="toctext">Vaccination rates</span></a></li>\n',  
b'\t\t</ul>\n',  
b'\t\t</li>\n',  
b'\t\t<li class="toclevel-1 tocsection-7"><a href="#See\_also"><span class="tocnumber">2</span> <span class="toctext">See also</span></a></li>\n',  
b'\t\t<li class="toclevel-1 tocsection-8"><a href="#References"><span class="tocnumber">3</span> <span class="toctext">References</span></a></li>\n',  
b'\t\t<li class="toclevel-1 tocsection-9"><a href="#External\_links"><span class="tocnumber">4</span> <span class="toctext">External links</span></a></li>\n',  
b'\t\t</ul>\n',  
b'\t</div>\n',

b'\n',  
b'

## <span class="mw-headline" id="European\_health">European health</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=1" title="Edit section: European health">edit</a><span class="mw-editsection-bracket">]</span></span></h2>\n', b' | | | | |---------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------| | EU countries with the highest life expectancy (2019) | | | | <sup class="reference" id="cite_ref-hdr-life-exp_4-0">&lt;a href="#cite_note-hdr-life-exp-4"&gt;#91;4#93;&lt;/a&gt;&lt;/sup&gt;</sup> | | | | Rank | Country | Life expectancy at birth (years) | | 1. Spain | Spain | 83.4 | | 2. Italy | Italy | 83.4 | | 3. Sweden | Sweden | 82.7 | | 4. France | France | 82.5 | | 5. Malta | Malta | 82.4 | | 6. Ireland | Ireland | 82.1 | | 7. Netherlands | Netherlands | 82.1 | | 8. Luxembourg | Luxembourg | 82.1 | | 9. World | | 80.4 | **'<th>Rank** **'<th>Country** **'<th colspan="3">Life expectancy at birth (years)** **'<tr><td>1.** **'<td>Spain** **'<td>83.4** **'<tr><td>2.** **'<td>Italy** **'<td>83.4** **'<tr><td>3.** **'<td>Sweden** **'<td>82.7** **'<tr><td>4.** **'<td>France** **'<td>82.5** **'<tr><td>5.** **'<td>Malta** **'<td>82.4** **'<tr><td>6.** **'<td>Ireland** **'<td>82.1** **'<tr><td>7.** **'<td>Netherlands** **'<td>82.1** **'<tr><td>8.** **'<td>Luxembourg** **'<td>82.1** **'<tr><td>9.** **'<td>World** **'<td>80.4**

b'</td>\n',  
b'<td>9.\n',  
b'</td>\n',  
b'<td><a href="/wiki/Greece" title="Greece">Greece</a>\n',  
b'</td>\n',  
b'<td>82.1\n',  
b'</td></tr>\n',  
b'</tbody></table>\n',  
b'<p>The <a href="/wiki/World\_Health\_Organization" title="World Health Organization">World Health Organization</a> has listed 5 countries as comprising the European region. Health outcomes vary greatly by country. Countries in western Europe have had a significant increase in life expectancy since World War II, while most of eastern Europe and the former Soviet countries have experienced a decrease in life expectancy.<sup><a href="#cite\_note-lancet1-5">#cite\_note-lancet1-5</a></sup>  
3;</a></sup>\n',  
b'</p><p><a href="/wiki/Tobacco" title="Tobacco">Tobacco</a> use is the largest preventable cause of death in Europe. Many countries have passed legislation in the past few decades restricting tobacco sales and use.<sup><a href="#cite\_note-lancet1-5">#cite\_note-lancet1-5</a></sup></sup> According to the European Health Interview Survey (EHIS) conducted between 2013 and 2015, substantial inequalities existed in terms of sex, age and education level concerning the proportion of adults who were daily smokers of cigarettes.<sup><a href="#cite\_note-6">#cite\_note-6</a></sup>\n',  
b'</p>\n',  
b'<h3><span class="mw-headline" id="European\_Union">European Union</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=2" title="Edit section: European Union">edit</a><span class="mw-editsection-bracket">]</span></span></h3>\n',  
b'<p>The <a href="/wiki/European\_Union" title="European Union">European Union</a> has no major administrative responsibility in the field of healthcare. The <a href="/wiki/European\_Commission" title="European Commission">European Commission</a> <a href="/wiki/Directorate-General\_for\_Health\_and\_Consumers" class="mw-redirect" title="Directorate-General for Health and Consumers">Directorate-General for Health and Consumers</a> however seeks to align national laws on the safety of food and other products, on consumers' rights, and on the protection of people's health, to form new EU wide laws and thus strengthen its internal markets.<sup><i><a href="/wiki/Wikipedia:Citation\_needed" title="Wikipedia:Citation needed">This claim needs references to reliable sources. (January 2021)</a></i></sup></span><span title="This claim needs references to reliable sources. (January 2021)">citation needed</span></a></i></sup>\n',  
b'</p><p>Both the <a href="/wiki/World\_Health\_Organization" title="World Health Organization">World Health Organization</a> Regional Office for Europe (<a href="/wiki/List\_of\_WHO\_regions#European\_Region\_(EURO)" title="List of WHO regions">WHO/Europe</a>) and the <a href="/wiki/European\_Centre\_for\_Disease\_Prevention\_and\_Control" title="European Centre for Disease Prevention and Control">European Centre for Disease Prevention and Control</a> are involved in public health development in Europe.<sup><a href="#cite\_note-7">#cite\_note-7</a></sup>\n',  
b'</p>\n',  
b'<h3><span class="mw-headline" id="COVID-19\_pandemic">COVID-19 pandemic</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=3" title="Edit section: COVID-19 pandemic">edit</a><span class="mw-editsection-bracket">]</span></span></h3>\n',  
b'<p>The <a href="/wiki/European\_Union" title="European Union">European Union</a> countries were impacted by the <a href="/wiki/COVID-19\_pandemic" title="COVID-19 pandemic">COVID-19 pandemic</a>. The governments of the various countries adopted healthcare standards aimed at the number of <a href="/wiki/Infection" title="Infection">infected</a> and people who are deceased. A widespread vaccination campaign helped to lower the COVID-19 <a href="/wiki/Mortality\_rate" title="Mortality rate">mortality rate</a>. In addition to the <a href="/wiki/COVID-19\_vaccines" class="mw-redirect" title="COVID-19 vaccines">COVID-19 vaccines</a>, the mortality rates were determined by the number of <a href="/wiki/Physicians" class="mw-redirect" title="Physicians">physicians</a>, the number of available <a href="/wiki/Intensive\_care\_unit" title="Intensive care unit">Intensive care unit</a> (ICU) beds and safety policies carried out by governments. Mortality rates varied in Europe depending on whether the countries have a higher or lower rate of the adult population over 65 years of age. Studies show that having an adequate number of <a href="/wiki/Health\_professionals" class="mw-redirect" title="Health professionals">health professionals</a> is one of the most important variables in reducing the number of deaths.<sup><a href="#cite\_note-8">#cite\_note-8</a></sup>\n',  
b'</p>\n',  
b'<h4><span class="mw-headline" id="Response">Response</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=4" title="Edit section: Response">edit</a><span class="mw-editsection-bracket">]</span></span></h4>\n',  
b'<p>The emergence of the <a href="/wiki/Coronavirus" title="Coronavirus">Coronavirus</a> has upended life as we know it in various <a href="/wiki/European\_Union" title="European Union">European Union</a> countries. In responding to the <a href="/wiki/COVID-19\_pandemic" title="COVID-19 pandemic">COVID-19 pandemic</a>, <a href="/wiki/Public\_health" title="Public health">public health</a> infrastructures and resources, governmental, and cultural values all play a key role in stopping the threat. Finding an approach that balances effectiveness, efficiency, and successful response to the pandemic is the key to ending the crisis.\n',  
b'</p><p>European Union countries like <a href="/wiki/Greece" title="Greece">Greece</a> and <a href="/wiki/Sweden" title="Sweden">Sweden</a> have similar populations and sizes. They have a difficult cultural and political stance. The government response of various European countries to the pandemic was to stay home and slow down the spread of the virus. It was proactive in closing businesses and stores early on and even before the first COVID-19 death. The governmental response including the banning of all <a href="/wiki/International\_non-essential\_travel" title="International non-essential travel">international non-essential travel</a> and <a href="/wiki/COVID-19\_lockdowns" title="COVID-19 lockdowns">COVID-19 lockdowns</a> helped to keep the death toll to a minimum.<sup><a href="#cite\_note-9">#cite\_note-9</a></sup>\n',  
b'</p><p>In comparison, the government response to <a href="/wiki/COVID-19\_in\_Sweden" class="mw-redirect" title="COVID-19 in Sweden">COVID-19 in Sweden</a> was much less stringent than in <a href="/wiki/COVID-19\_pandemic\_in\_Greece" title="COVID-19 pandemic in Greece">Greece</a>. The government of Sweden focused on guidelines that encourage all citizens to take personal responsibility in containing the virus. The <a href="/wiki/Public\_Health\_Agency\_of\_Sweden" title="Public Health Agency of Sweden">Public Health Agency of Sweden</a> proposed a ban on gatherings over 500 people, including <a href="/wiki/Social\_distancing" title="Social distancing">social distancing</a>. The key concept proposed was solidarity through individual responsibility with all Swedish citizens obeying the guidelines.<sup><a href="#cite\_note-10">#cite\_note-10</a></sup>\n',  
b'</p><p><a href="/wiki/Triage" title="Triage">Triaging</a> issues that determined medical priority to increase <a href="/wiki/Survival\_rates" class="mw-redirect" title="Survival rates">survival rates</a> from COVID-19 contrasted between Sweden and Greece. The Europeans focused strictly on medical protocols and technical expertise from the medical field. This caused a fundamental collapse of the healthcare system, needless deaths, and a misinformed and distrusting public that demanded more <a href="/wiki/Accountability" title="Accountability">accountability</a> from the <a href="/wiki/Member\_state\_of\_the\_European\_Union" title="Member state of the European Union">European Union members</a>, the government, and <a href="/wiki/Health\_professional" title="Health professional">health professionals</a>. With a similar population of 10 million people and other issues aside. As of 10 December 2021, there have been 18,982 deaths in Greece and 15,152 deaths in Sweden.<sup><a href="#cite\_note-11">#cite\_note-11</a></sup>\n',  
b'</p>\n',  
b'<h3><span class="mw-headline" id="Life\_expectancy">Life expectancy</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=5" title="Edit section: Life expectancy">edit</a><span class="mw-editsection-bracket">]</span></span></h3>\n',  
b'<p>There is a big gap between genders in <a href="/wiki/Life\_expectancy" title="Life expectancy">life expectancy</a> due to income groups. Studies show that the highest income group tends to live longer. For example, <a href="/wiki/Eastern\_Europe" title="Eastern Europe">Eastern Europe</a> is a low-income region, with a lower life expectancy due to <a href="/wiki/Biological\_factors" class="mw-redirect" title="Biological factors">biological factors</a> including <a href="/wiki/Genetics" title="Genetics">ge</sup></sup></sup></sup></sup></sup>

netics</a>, <a href="/wiki/Nutrition" title="Nutrition">nutrition</a>, and even hormonal issues. However, other factors are non-biological such as <a href="/wiki/Smoking" title="Smoking">smoking</a> and <a href="/wiki/Drinking" title="Drinking">drinking</a> that tend to be part of the decrease in life expectancy for men. These unhealthy lifestyles create life-threatening diseases such as <a href="/wiki/Lung\_cancer" title="Lung cancer">lung cancer</a> and cardiovascular complications. The consumption of alcohol in Europe by men is usually more common between the ages of 20×e2×80×9334 years in men and would increase the life expectancy if consumption is lowered. Another non-biological factor that cooperates with the decrease in life expectancy in <a href="/wiki/Eastern\_Europe" title="Eastern Europe">Eastern Europe</a> would be unhealthy stress that affects <a href="/wiki/Cardiovascular\_health" class="mw-redirec" title="Cardiovascular health">cardiovascular health</a>. <sup><a href="#cite\_note-12">#91;12#93;</a></sup></p>\n',  
b'</p><p>Life expectancy has risen from <a href="/wiki/Birth\_rates" class="mw-redirec" title="Birth rates">birth rates</a> due to significant factors such as the decrease in children's mortality rates, increase in the standard of living, better education, and advances in <a href="/wiki/Healthcare" class="mw-redirec" title="Healthcare">healthcare</a> and <a href="/wiki/Medicine" title="Medicine">medicine</a>. Since the 1960s studies and statistics have shown a rise in life expectancy by a pair of numbers per decade. However, from 2019 to 2020 a slight increase in life expectancy occurred by about 0.2 yrs. Nonetheless, in 2020 a drastic decrease in life expectancy occurred by about - 1.75. This occurred only in some states of Europe because of the COVID-19 pandemic. According to a new study published by the Smithsonian Magazine by the author Ridhi Kashyap, an associate professor of social demography at the <a href="/wiki/University\_of\_Oxford" title="University of Oxford">University of Oxford</a>. <sup>#91;i<a href="/wiki/Wikipedia:Citation\_needed" title="Wiki pedia:Citation needed"><span title="This claim needs references to reliable sources. (September 2022)">citation needed</span></a></sup></p>\n',  
b'</p><p>The decrease in life expectancy has been a dramatic one, which is known to be the biggest decrease in life expectancy compared to <a href="/wiki/World\_War\_II" title="World War II">World War II</a>. The explanation given is because due to the poor life expectancy already occurring in the European Union, <a href="/wiki/COVID-19" title="COVID-19">COVID-19</a> made it worse, decreasing life expectancy and causing more deaths. <sup><a href="#cite\_note-13">#91;13#93;</a></sup></p>\n',  
b'</p>\n',  
b'<h3><span class="mw-headline" id="Vaccination\_rates">Vaccination rates</span><span class="mw-editsection"><span class="mw-edi tsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=6" title="Edit section: Vaccination rates">edit</a><span class="mw-editsection-bracket">]</span></span></h3>\n',  
b'<p>Vaccines are a powerful tool being used nationwide against COVID-19. At the beginning of the <a href="/wiki/Pandemic" title="Pandemic">pandemic</a>, the <a href="/wiki/Europe" title="Europe">European</a> population aimed to help individuals that were at most risk. This may include older adults over the age of 65 which are more likely to have other health issues. Minorities who do not have complete access to assistance and help from the <a href="/wiki/Government" title="Government">government</a>. Individuals with disabilities are more likely to be affected because of their underlying <a href="/wiki/Medical\_conditions" class="mw-redirec" title="Medical conditions">medical conditions</a>. <a href="/wiki/Minorities" class="mw-redirec" title="Minorities">minorities</a> who do not have access to the highest level of <a href="/wiki/Medical" class="mw-redirec" title="Medical">medical </a> help. <sup><a href="#cite\_note-14">#91;14#93;</a></sup></p>\n',  
b'</p><p>Due to the high demand on <a href="/wiki/Hospitals" class="mw-redirec" title="Hospitals">hospitals</a>, the <a href="/wiki/Vaccines" class="mw-redirec" title="Vaccines">vaccines</a> served as a mechanism to decrease the load on <a href="/wiki/Doctor\_(title)" title="Doctor (title)">doctors</a> and medics. Europe and its members have been actively contributing to handling this pandemic most simply. As of today, 66.9% of Europe's population is fully vaccinated. Europe has been following the <a href="/wiki/Herd immunity" title="Herd immunity">herd immunity</a> strategy which convinces its citizens to get vaccinated as soon as possible. "Herd immunity" is the idea of a vast number of people to be fully vaccinated against <a href="/wiki/COVID-19" title="COVID-19">COVID-19</a>. The more people who are <a href="/wiki/Vaccinated" class="mw-redirec" title="Vaccinated">vaccinated</a> the less likely it is for the virus to spread. Although this has so far been successful, a substantial number of Europeans in every community are still not vaccinated. The fact that there are constantly new <a href="/wiki/Variant\_(biology)" title="Variant (biology)">variants</a> does not help because we must keep up with new <a href="/wiki/Statistics" title="Statistics">statistics</a>. In Europe, there is a limited number of vaccinations that are being offered for the people. The European center for the disease has been closely monitoring the effectiveness of each vaccine. Europe has since taken precautions to distribute vaccines safely and effectively across the <a href="/wiki/Country" title="Country">country</a>. <sup><a href="#cite\_note-15">#91;15#93;</a></sup></p>\n',  
b'</p>\n',  
b'<h2><span class="mw-headline" id="See\_also">See also</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=7" title="Edit section: See also">edit</a><span class="mw-editsection-bracket">]</span></span></h2>\n',  
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2Fwww.euro.who.int%2Fen%2Fabout-us%2Fpartners%2Fthe-european-union-and-its-institutions%2FEuropean-centre-for-disease-prevention-and-control-ecdc&#rfr\_id=info%3Asid%2Fen.wikipedia.org%3AHealthcare+in+Europe" class="Z3988">></span></span>\n',  
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b0</span></a></li></ul>\n',  
b'\t\t<div class="after-portlet after-portlet-lang"><span class="wb-langlinks-edit wb-langlinks-link"><a href="https://www.wi  
kipedia.org/wiki/Special:EntityPage/Q5691262#sitelinks-wikipedia" title="Edit interlanguage links" class="wbc-editpage">Edit link  
s</a></span></div>\n',  
b'\t</div>\n',  
b'</nav>\n',  
b'\n',  
b'</div>\n',  
b'\n',  
b'</div>\n',  
b'\n',  
b'<footer id="footer" class="mw-footer" role="contentinfo" >\n',  
b'\t<ul id="footer-info">\n',  
b'\t  - This page was last edited on 5 September 2022, at 23:23<span class="anonymous-show">&#160;(UT  
C)</span>.</li>\n',  
b'\t  - Text is available under the <a rel="license" href="//en.wikipedia.org/wiki/Wikipedia:Text\_of  
\_Creative\_Commons\_Attribution-ShareAlike\_3.0\_Unported\_License">Creative Commons Attribution-ShareAlike License 3.0</a><a rel="li  
cense" href="//creativecommons.org/licenses/by-sa/3.0/" style="display:none;"></a>;\n',  
b'additional terms may apply. By using this site, you agree to the <a href="//foundation.wikimedia.org/wiki/Terms\_of\_Use">Term  
s of Use</a> and <a href="//foundation.wikimedia.org/wiki/Privacy\_policy">Privacy Policy</a>. Wikipedia\xc2\xae is a registered  
trademark of the <a href="//www.wikimediafoundation.org/">Wikimedia Foundation, Inc.</a>, a non-profit organization.</li>\n',  
b'</ul>\n',  
b'\n',  
b'<ul id="footer-places">\n',  
b'\t  - <a href="https://foundation.wikimedia.org/wiki/Privacy\_policy">Privacy policy</a></li>\n',  
b'\t  - <a href="/wiki/Wikipedia:About">About Wikipedia</a></li>\n',  
b'\t  - <a href="/wiki/Wikipedia:General\_disclaimer">Disclaimers</a></li>\n',  
b'\t  - <a href="//en.wikipedia.org/wiki/Wikipedia>Contact\_us">Contact Wikipedia</a></li>\n',  
b'\t  - <a href="//en.m.wikipedia.org/w/index.php?title=Healthcare\_in\_Europe&mobileaction=tog  
gle\_view\_mobile" class="noprint stopMobileRedirectToggle">Mobile view</a></li>\n',  
b'\t  - <a href="https://developer.wikimedia.org">Developers</a></li>\n',  
b'\t  - <a href="https://stats.wikimedia.org/#/en.wikipedia.org">Statistics</a></li>\n',  
b'\t  - <a href="https://foundation.wikimedia.org/wiki/Cookie\_statement">Cookie statement</a  
></li>\n',  
b'</ul>\n',  
b'\n',  
b'<ul id="footer-icons" class="noprint">\n',  
b'\t  - <a href="https://wikimediafoundation.org/"></a></li>\n',  
b'\t  - <a href="https://www.mediawiki.org/"></a></li>\n',  
b'</ul>\n',  
b'\n',  
b'</footer>\n',  
b'\n',  
b'<script>(RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgPageParseReport":{"limitreport":{"cputime":"0.572","walltim  
e":"0.691","ppvisitednodes":{"value":33511,"limit":1000000}, "postexpandincludesize":{"value":125959,"limit":2097152}, "templatear  
gumentsize":{"value":18989,"limit":2097152}, "expansiondepth":{"value":15,"limit":100}, "expensivefunctioncount":{"value":17,"limi  
t":500}, "unstrip-depth":{"value":1,"limit":20}, "unstrip-size":{"value":58657,"limit":5000000}, "entityaccesscount":{"value":1,"li  
mit":400}, "timingprofile":["100.00% 609.218 1 -total", "52.47% 319.671 3 Template:Navbox", "40.03% 243.879 147 T  
emplate:Iso2country", "31.30% 190.703 2 Template:Europe\_in\_topic", "23.19% 141.297 1 Template:Health\_care\_in\_Europ

```
e," 22.56% 137.430      1 Template:Europe_topic"," 21.71% 132.270      1 Template:Reflist"," 14.39% 87.650      9 Template:Cite_web"," 11.90% 72.505      147 Template:Iso2country/data"," 6.01% 36.602      2 Template:Fix"]}, "scribunto": {"limitreport-timeusage": {"value": "0.239", "limit": "10.000"}, "limitreport-memusage": {"value": "7477782", "limit": "52428800"}}, "cachereport": {"origin": "mw2337", "timestamp": "20221214174542", "ttl": "1814400", "transientcontent": "false"}}}};});</script>\n', b'<script type="application/ld+json">{@context": "https://schema.org", "@type": "Article", "name": "Healthcare in Europe", "url": "https://en.wikipedia.org/wiki/Healthcare_in_Europe", "sameAs": "http://www.wikidata.org/entity/Q5691262", "mainEntity": "http://www.wikidata.org/entity/Q5691262", "author": {"@type": "Organization", "name": "Contributors to Wikimedia projects"}, "publisher": {"@type": "Organization", "name": "Wikimedia Foundation, Inc.", "logo": {"@type": "ImageObject", "url": "https://www.wikimedia.org/static/images/wmf-hor-googpub.png"}}, "datePublished": "2008-02-26T22:37:01Z", "dateModified": "2022-09-05T
```

---

url='https://en.wikipedia.org/wiki/Healthcare\_in\_Europe'\ res\_obj=urllib2.urlopen(url)\ htmlpage=res\_obj.read()# gives entire htmlpage code in byteform as string document\

```
print(res_obj.status)\ print(len(htmlpage))\ print(type(htmlpage))\
```

```
htmlpage.decode()
```

In [4]:

```
#searching through the htmlpage for tags
lst=[]
for lines in htmlpage_as_list:
    #Lines=codecs.decode(lines)# this does the same job as str(byte_obj,'UTF-8')
    #Lines=lines.strip()
    lines=str(lines,'UTF-8').strip()
    if re.search('table class', lines):
        lst.append(lines)

print(type(lst[0]))
lst
```

Out[4]:

```
<class 'str'>
['<table class="wikitable floatright sortable" style="font-size: 90%">,
 '<div class="navbox-styles nomobile"><style data-mw-deduplicate="TemplateStyles:r1061467846">.mw-parser-output .navbox{box-sizing:border-box; border:1px solid #a2a9b1; width:100%; clear:both; font-size:88%; text-align:center; padding:1px; margin:1em auto 0}</style> .mw-parser-output .navbox .navbox{margin-top:0}</div> .mw-parser-output .navbox+, .mw-parser-output .navbox+.navbox-styles+.navbox{margin-top:-1px}</div> .mw-parser-output .navbox-inner, .mw-parser-output .navbox-subgroup{width:100%}</div> .mw-parser-output .navbox-group, .mw-parser-output .navbox-title, .mw-parser-output .navbox-abovebelow{padding:0.25em 1em; line-height:1.5em; text-align:center}</div> .mw-parser-output .navbox-group{white-space:nowrap; text-align:right}</div> .mw-parser-output .navbox, .mw-parser-output .navbox-subgroup{background-color:#fdfdfd}</div> .mw-parser-output .navbox-list{line-height:1.5em; border-color:#fdfdfd}</div> .mw-parser-output .navbox-list-with-group{text-align:left; border-left-width:2px; border-left-style:solid}</div> .mw-parser-output tr+tr> .navbox-abovebelow, .mw-parser-output tr+tr> .navbox-group, .mw-parser-output tr+tr> .navbox-image, .mw-parser-output tr+tr> .navbox-list{border-top:2px solid #fdfdfd}</div> .mw-parser-output .navbox-title{background-color:#ccf}</div> .mw-parser-output .navbox-abovebelow, .mw-parser-output .navbox-group, .mw-parser-output .navbox-subgroup .navbox-title{background-color:#ddf}</div> .mw-parser-output .navbox-subgroup .navbox-group, .mw-parser-output .navbox-subgroup .navbox-abovebelow{background-color:#e6e6ff}</div> .mw-parser-output .navbox-even{background-color:#f7f7f7}</div> .mw-parser-output .navbox-odd{background-color:transparent}</div> .mw-parser-output .navbox .hlist td dl, .mw-parser-output .navbox .hlist td ol, .mw-parser-output .navbox td .hlist ul, .mw-parser-output .navbox td.hlist dl, .mw-parser-output .navbox td.hlist ol, .mw-parser-output .navbox td.hlist ul{padding:0.125em 0}</div> .mw-parser-output .navbox .navbar{display:block; font-size:100%}</div> .mw-parser-output .navbox-title .navbar{float:left; text-align:left; margin-right:0.5em}</div> <div role="navigation" class="navbox" aria-labelledby="Healthcare_in_Europe" style="padding:3px"><table class="nowraplinks mw-collapsible autocollapse navbox-inner" style="border-spacing:0; background: transparent; color: inherit"><tbody><tr><th scope="col" class="navbox-title" colspan="2"><style data-mw-deduplicate="TemplateStyles:r1063604349">.mw-parser-output .navbar{display:inline; font-size:88%; font-weight:normal}</style> .mw-parser-output .navbox-collapse{float:left; text-align:left}</div> .mw-parser-output .navbox-boxtxt{word-spacing:0}</div> .mw-parser-output .navbox ul{display:inline-block; white-space: nowrap; line-height: inherit}</div> .mw-parser-output .navbox-brackets::before{margin-right:-0.125em; content:"["}.mw-parser-output .navbox-brackets::after{margin-left:-0.125em; content:"]"}</div> .mw-parser-output .navbox li{word-spacing:-0.125em}</div> .mw-parser-output .navbox a>span, .mw-parser-output .navbox a>abbr{text-decoration:inherit}</div> .mw-parser-output .navbox-mini abbr{font-variant:small-caps; border-bottom:none; text-decoration:none; cursor:inherit}</div> .mw-parser-output .navbox-ct-full{font-size:114%; margin:0 7em}</div> .mw-parser-output .navbox-ct-mini{font-size:114%; margin:0 4em}</div> <div class="navbox plainlinks hlist navbar-mini"><ul><li class="nv-view"><a href="/wiki/Template:Healthcare_in_Europe" title="Template:Healthcare in Europe"><abbr title="View this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">v</abbr></a></li><li class="nv-talk"><a href="/wiki/Template_talk:Healthcare_in_Europe" title="Template talk:Healthcare in Europe"><abbr title="Discuss this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">t</abbr></a></li><li class="nv-edit"><a class="external text" href="https://en.wikipedia.org/w/index.php?title=Template:Healthcare_in_Europe&action=edit"><abbr title="Edit this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">e</abbr></a></li></ul></div> <div id="Healthcare_in_Europe" style="font-size:114%; margin:0 4em"><a class="mw-selflink selflink">Healthcare in Europe </a></div> </th></tr> <tr><th scope="row" class="navbox-group" style="width:1%">Sovereign states</th><td class="navbox-list-with-group navbox-list navbox-odd hlist" style="width:100%; padding:0"><div style="padding:0 0.25em">, <div class="navbox-styles nomobile"><link rel="mw-deduplicated-inline-style" href="mw-data:TemplateStyles:r1061467846"/></div> <div role="navigation" class="navbox" aria-labelledby="Health_in_Europe" style="padding:3px"><table class="nowraplinks mw-collapsible autocollapse navbox-inner" style="border-spacing:0; background: transparent; color: inherit"><tbody><tr><th scope="col" class="navbox-title" colspan="2"><link rel="mw-deduplicated-inline-style" href="mw-data:TemplateStyles:r1063604349"/><div class="navbox plainlinks hlist navbar-mini"><ul><li class="nv-view"><a href="/wiki/Template:Europe_topic" title="Template:Europe topic"><abbr title="View this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">v</abbr></a></li><li class="nv-talk"><a href="/wiki/Template_talk:Europe_topic" title="Template talk:Europe topic"><abbr title="Discuss this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">t</abbr></a></li><li class="nv-edit"><a class="external text" href="https://en.wikipedia.org/w/index.php?title=Template:Europe_topic&action=edit"><abbr title="Edit this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">e</abbr></a></li></ul></div> <div id="Health_in_Europe" style="font-size:114%; margin:0 4em"><a href="/wiki/Health_in_Europe" class="mw-redirect" title="Health in Europe">Health in Europe </a></div> </th></tr> <tr><th scope="row" class="navbox-group" style="width:1%">Sovereign states</th><td class="navbox-list-with-group navbox-list navbox-odd hlist" style="width:100%; padding:0"><div style="padding:0 0.25em">, <div class="navbox-styles nomobile"><link rel="mw-deduplicated-inline-style" href="mw-data:TemplateStyles:r1061467846"/></div> <div role="navigation" class="navbox" aria-labelledby="List_of_hospitals_in_Europe" style="padding:3px"><table class="nowraplinks mw-collapsible autocollapse navbox-inner" style="border-spacing:0; background: transparent; color: inherit"><tbody><tr><th scope="col" class="navbox-title" colspan="2"><link rel="mw-deduplicated-inline-style" href="mw-data:TemplateStyles:r1063604349"/><div class="navbox plainlinks hlist navbar-mini"><ul><li class="nv-view"><a href="/wiki/Template:Europe_topic" title="Template:Europe topic"><abbr title="View this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">v</abbr></a></li><li class="nv-talk"><a href="/wiki/Template_talk:Europe_topic" title="Template talk:Europe topic"><abbr title="Discuss this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">t</abbr></a></li><li class="nv-edit"><a class="external text" href="https://en.wikipedia.org/w/index.php?title=Template:Europe_topic&action=edit"><abbr title="Edit this template" style=""; background:none transparent; border:none; box-shadow:none; padding:0;">e</abbr></a></li></ul></div>
```

```
this template" style="";background:none transparent;border:none;box-shadow:none;padding:0;">e</abbr></a></li></ul></div><div id="List_of_hospitals_in_Europe" style="font-size:114%;margin:0 4em"><a href="/wiki/List_of_hospitals_in_Europe" class="mw-redirec t" title="List of hospitals in Europe">List of hospitals in Europe </a></div></th><tr><th scope="row" class="navbox-group" style="width:1%">Sovereign states</th><td class="navbox-list-with-group navbox-list navbox-odd hlist" style="width:100%;padding:0"><div style="padding:0 0.25em"> ,<div class="navbox-styles nomobile"><link rel="mw-deduplicated-inline-style" href="mw-data:TemplateStyles:r1061467846"/></div><div role="navigation" class="navbox authority-control" aria-labelledby="Authority_control:_National_libraries_frameless&#124;text-top&#124;10px&#124;alt>Edit_this_at_Wikidata&#124;link=https&amp;#58;//www.wikidata.org/wiki/Q5691262#identifiers&#124;class=noprint&#124;Edit_this_at_Wikidata" style="padding:3px"><table class="nowraplinks hlist navbox-inner" style="border-spacing:0;background:transparent;color:inherit"><tbody><tr id="Authority_control:_National_libraries_frameless&#124;text-top&#124;10px&#124;alt>Edit_this_at_Wikidata&#124;link=https&amp;#58;//www.wikidata.org/wiki/Q5691262#identifiers&#124;class=noprint&#124;Edit_this_at_Wikidata" scope="row" class="navbox-group" style="width:1%"><a href="/wiki/Help:Authority_control" title="Help:Authority control">Authority control: National libraries</a> <a href="https://www.wikidata.org/wiki/Q5691262#identifiers" title="Edit this at Wikidata"></a></th><td class="navbox-list-with-group navbox-list navbox-odd" style="width:100%;padding:0"><div style="padding:0 0.25em">
```

In [5]: `lst[0]`

Out[5]: `'<table class="wikitable floatright sortable" style="font-size: 90%">'`

In [6]: `#extracting the table name using MatchObject  
table_title=re.search('"(^\")*',lst[0])  
table_title.group(1)`

Out[6]: `'wikitable floatright sortable'`

In [7]: `#extracting table name from all possible matches  
table_search=re.findall('"(^\")*',lst[0])  
table_title=table_search[0]  
table_title`

Out[7]: `'wikitable floatright sortable'`

In [8]: `#using BeautifulSoup after Learning title of table, to extract data and create a dataframe using pandas  
#res=r.get(url)  
res_obj=urllib2.urlopen(url)  
htmlpage_as_text=res_obj.read() # entire content as a single string document #r.content for byte form, r.text in unicode  
HCE=BeautifulSoup(htmlpage_as_text,"html5lib")  
res_obj.close()`

In [9]: `#reading html page code in BS container  
HCE.contents[1]`

Out[9]: `<html class="client-nojs" dir="ltr" lang="en"><head>  
<meta charset="utf-8"/>  
<title>Healthcare in Europe - Wikipedia</title>  
<script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":false,"wgSeparatorTransformTable":[],"wgDigitTransformTable":[],"wgDefaultDateFormat":"dmy","wgMonthNames":[],"January","February","March","April","May","June","July","August","September","October","November","December"],"wgRequestId":"c1bbd628-9a92-4231-b34c-1d0aae88a792","wgCSNonce":false,"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"wgPageName":"Healthcare_in_Europe","wgTitle":"Healthcare in Europe","wgCurRevisionId":1108727875,"wgRevisionId":1108727875,"wgArticleId":15973120,"wgIsArticle":true,"wgIsRedirect":false,"wgAction":"view","wgUserName":null,"wgUserGroups":["*"],"wgCategories":["CS1 maint: url-status","Use dmy dates from December 2021","All articles with unsourced statements","Articles with unsourced statements from January 2021","Articles with unsourced statements from September 2022","Articles with LCCN identifiers","Health in Europe"],"wgPageContentLanguage":"en","wgPageContentModel":"wikitext","wgRelevantPageName":"Healthcare_in_Europe","wgRelevantArticleId":15973120,"wgIsProbablyEditable":true,"wgRelevantPageIsProbablyEditable":true,"wgRestrictionEdit":[],"wgRestrictionMove":[],"wgFlaggedRevsParams":{"tags":{"status":{"levels":1}}}, "wgVisualEditor":{"pageLanguageCode":"en","pageLanguageDir":"ltr","pageVariantFallbacks":"en"}, "wgMFDisplayWikibaseDescriptions":{"search":true,"watchlist":true,"tagline":false,"nearby":true}, "wgWMESchemaEditAttemptStepOversample":false,"wgWMEPageLength":20000,"wgNoticeProject":"wikipedia","wgVector2022PreviewPages":[],"wgMediaViewerOnClick":true,"wgMediaViewerEnabledByDefault":true,"wgPopupsFlags":10,"wgULSCurrentAutonym":"English","wgEditSubmitButtonLabelPUBLISH":true,"wgCentralAuthMobileDomain":false,"wgULSPosition":"interlanguage","wgULSisCompactLinksEnabled":true,"wgWikibaseItemId":Q5691262,"GEHomepageSuggestedEditsEnableTopics":true,"wgGETopicsMatchModeEnabled":false,"wgGESTructuredTaskRejectionReasonTextInputEnabled":false};RLSTATE={"ext.globalCssJs.user.styles":"ready","site.styles":"ready","user.styles":"ready","ext.globalCssJs.user":"ready","user":"ready","user.options":"loading","ext.cite.styles":"ready","skins.vector.styles.legacy":"ready","jquery.tablesorter.styles":"ready","jquery.makeCollapsible.styles":"ready","ext.visualEditor.desktopArticleTarget.noscript":"ready","ext.wikimediaBadges":"ready","ext.uls.interlanguage":"ready","wikibase.client.init":"ready"};RLPAGEMODULES=[{"ext.cite.ux-enhancements","site","mediawiki.page.ready","jquery.tablesorter","jquery.makeCollapsible","mediawiki.toc","skins.vector.legacy.js","mmv.head","mmv.bootstrap.autostart","ext.visualEditor.desktopArticleTarget.init","ext.visualEditor.targetLoader","ext.eventLogging","ext.wikimediaEvents","ext.navigationTiming","ext.cx.eventlogging.campaigns","ext.centralNotice.geoIP","ext.centralNotice.startUp","ext.gadget.ReferenceTooltips","ext.gadget.charinsert","ext.gadget.extra-toolbar-buttons","ext.gadget.switcher","ext.centralauth.centralautologin","ext.popups","ext.echo.centralauth","ext.uls.compactlinks","ext.uls.interface","ext.growthExperiments.SuggestedEditSession"];</script><script>(RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.options@12s5i",function($,jQuery,require,module){mw.user.tokens.set({"patrolToken":"+\\\"","watchToken":"+\\\"","csrfToken":"+\\\""});});});</script><link href="/w/load.php?lang=en&modules=ext.cite.styles%7Cext.uls.interlanguage%7Cext.visualEditor.desktopArticleTarget.noscript%7Cext.wikimediaBadges%7Cjquery.makeCollapsible.styles%7Cjquery.tablesorter.styles%7Cskins.vector.styles.legacy%7Cwikibase.client.init&only=styles&skin=vector" rel="stylesheet"/><script async="" src="/w/load.php?lang=en&modules=startup&only=scripts&raw=1&skin=vector"></script><meta content="" name="ResourceLoaderDynamicStyles"/><link href="/w/load.php?lang=en&modules=site.styles&only=styles&skin=vector" rel="stylesheet"/><meta content="MediaWiki 1.40.0-wmf.13" name="generator"/>`

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<link href="/static/favicon/wikipedia.ico" rel="icon"/>
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<link href="//en.wikipedia.org/w/api.php?action=rsd" rel="EditURI" type="application/rsd+xml"/>
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<link href="https://en.wikipedia.org/wiki/Healthcare_in_Europe" rel="canonical"/>
<link href="//meta.wikimedia.org" rel="dns-prefetch"/>
<link href="//login.wikimedia.org" rel="dns-prefetch"/>
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        </div>
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</h1>
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        <div id="contentSub"></div>
        <div id="contentSub2"></div>

        <div id="jump-to-nav"></div>
        <a class="mw-jump-link" href="#mw-head">Jump to navigation</a>
        <a class="mw-jump-link" href="#searchInput">Jump to search</a>
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<p class="mw-empty-elt">
</p>
<div class="thumb tright"><div class="thumbinner" style="width:222px;"><a class="image" href="/wiki/File:Carte_Europ%C3%A9enne_d%27Assurance_Maladie_France.jpg"></a> <div class="thumbcaption"><div class="magnify"><a class="internal" href="/wiki/File:Carte_Europ%C3%A9enne_d%27Assurance_Maladie_France.jpg" title="Enlarge"></a></div><a href="/wiki/European_Health_Insurance_Card" title="European Health Insurance Card">European Health Insurance Card</a> (French version pictured)</div></div></div>
<p><b>Healthcare in Europe</b> is provided through a wide range of different systems run at individual <a href="/wiki/Nation" title="Nation">national</a> levels. Most European countries have a system of tightly regulated, competing private health insurance companies, with government subsidies available for citizens who cannot afford coverage.<sup class="reference" id="cite_ref-1"><a href="#cite_note-1">[1]</a></sup><sup class="reference" id="cite_ref-2"><a href="#cite_note-2">[2]</a></sup> Many <a href="/wiki/Europe" title="Europe">European</a> countries (and all <a href="/wiki/European_Union" title="European Union">European Union</a> countries) offer their citizens a <a href="/wiki/European_Health_Insurance_Card" title="European Health Insurance Card">European Health Insurance Card</a> which, on a reciprocal basis, provides insurance for emergency medical treatment insurance when visiting other participating European countries.<sup class="reference" id="cite_ref-3"><a href="#cite_note-3">[3]</a></sup>
</p>
<div aria-labelledby="mw-toc-heading" class="toc" id="toc" role="navigation"><input class="toctogglecheckbox" id="toctogglecheckbox" type="checkbox"/><div class="toctitle" dir="ltr" lang="en"><h2 id="mw-toc-heading">Contents</h2><span class="toctogglespan"><label class="toctogglelabel" for="toctogglecheckbox"></label></span></div>
<ul>
    <li class="toclevel-1 tocsection-1"><a href="#European_health"><span class="tocnumber">1</span> <span class="toctext">European health</span></a>
    <ul>
        <li class="toclevel-2 tocsection-2"><a href="#European_Union"><span class="tocnumber">1.1</span> <span class="toctext">European Union</span></a></li>
        <li class="toclevel-2 tocsection-3"><a href="#COVID-19_pandemic"><span class="tocnumber">1.2</span> <span class="toctext">COVID-19 pandemic</span></a>
    
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<ul>
<li class="toclevel-3 tocsection-4"><a href="#Response"><span class="tocnumber">1.2.1</span> <span class="toctext">Response</span></a></li>
</ul>
</li>
<li class="toclevel-2 tocsection-5"><a href="#Life_expectancy"><span class="tocnumber">1.3</span> <span class="toctext">Life expectancy</span></a></li>
<li class="toclevel-2 tocsection-6"><a href="#Vaccination_rates"><span class="tocnumber">1.4</span> <span class="toctext">Vaccination rates</span></a></li>
</ul>
</li>
<li class="toclevel-1 tocsection-7"><a href="#See_also"><span class="tocnumber">2</span> <span class="toctext">See also</span></a></li>
<li class="toclevel-1 tocsection-8"><a href="#References"><span class="tocnumber">3</span> <span class="toctext">References</span></a></li>
<li class="toclevel-1 tocsection-9"><a href="#External_links"><span class="tocnumber">4</span> <span class="toctext">External links</span></a></li>
</ul>
</div>

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<table class="wikitable floatright sortable" style="font-size: 90%">
<caption style="font-size:100%">EU countries with the highest life expectancy (2019)<sup class="reference" id="cite_ref-hdr-life-exp_4-0"><a href="#cite_note-hdr-life-exp-4">[4]</a></sup>
</caption>
<tbody><tr>
<th>World<br/>Rank</th>
<th>EU<br/>Rank</th>
<th>Country</th>
<th>Life expectancy<br/>at birth (years)</th>
</tr>
<tr>
<td>5.</td>
<td>1.</td>
<td><a href="/wiki/Spain" title="Spain">Spain</a></td>
<td>83.4</td>
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<tr>
<td>6.</td>
<td>2.</td>
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<td>83.4</td>
</tr>
<tr>
<td>11.</td>
<td>3.</td>
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<td>82.7</td>
</tr>
<tr>
<td>12.</td>
<td>4.</td>
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<td>82.5</td>
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<td>13.</td>
<td>5.</td>
<td><a href="/wiki/Malta" title="Malta">Malta</a></td>
<td>82.4</td>
</tr>
<tr>
<td>16.</td>
<td>6.</td>
<td><a href="/wiki/Ireland" title="Ireland">Ireland</a></td>
<td>82.1</td>
</tr>
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<td>17.
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<td>7.
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<td>82.1
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<td>9.
</td>
<td><a href="/wiki/Greece" title="Greece">Greece</a>
</td>
<td>82.1
</td></tr>
</tbody></table>


The <a href="/wiki/World_Health_Organization" title="World Health Organization">World Health Organization</a> has listed 53 countries as comprising the European region. Health outcomes vary greatly by country. Countries in western Europe have had a significant increase in life expectancy since World War II, while most of eastern Europe and the former Soviet countries have experienced a decrease in life expectancy.<a href="#cite_note-lancet1-5">[5]</a></sup>



</p><p><a href="/wiki/Tobacco" title="Tobacco">Tobacco</a> use is the largest preventable cause of death in Europe. Many countries have passed legislation in the past few decades restricting tobacco sales and use.<a href="#cite_note-lancet1-5">[5]</a></sup> According to the European Health Interview Survey (EHIS) conducted between 2013 and 2015, substantial inequalities existed in terms of sex, age and education level concerning the proportion of adults who were daily smokers of cigarettes.<a href="#cite_note-6">[6]</a></sup>



</p>


### European Union</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare_in_Europe&action=edit&section=2" title="Edit section: European Union">edit</a><span class="mw-editsection-bracket">]</span></span></h3>



The <a href="/wiki/European_Union" title="European Union">European Union</a> has no major administrative responsibility in the field of healthcare. The <a href="/wiki/European_Commission" title="European Commission">European Commission's</a> <a class="mw-redirect" href="/wiki/Directorate-General_for_Health_and_Consumers" title="Directorate-General for Health and Consumers">Directorate-General for Health and Consumers</a> however seeks to align national laws on the safety of food and other products, on consumers' rights, and on the protection of people's health, to form new EU wide laws and thus strengthen its internal markets.<sup class="noprint Inline-Template Template-Fact" style="white-space:nowrap;">[<i><a href="/wiki/Wikipedia:Citation_needed" title="Wikipedia:Citation needed"><span title="This claim needs references to reliable sources. (January 2021)">citation needed</span></a></i>]</sup>



</p><p>Both the <a href="/wiki/World_Health_Organization" title="World Health Organization">World Health Organization</a> Regional Office for Europe (<a href="/wiki/List_of_WHO_regions#European_Region_(EURO)" title="List of WHO regions">WHO/Europe</a>) and the <a href="/wiki/European_Centre_for_Disease_Prevention_and_Control" title="European Centre for Disease Prevention and Control">European Centre for Disease Prevention and Control</a> are involved in public health development in Europe.<sup class="reference" id="cite_ref-7"><a href="#cite_note-7">[7]</a></sup>



</p>


### COVID-19 pandemic</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare_in_Europe&action=edit&section=3" title="Edit section: COVID-19 pandemic">edit</a><span class="mw-editsection-bracket">]</span></span></h3>



The <a href="/wiki/European_Union" title="European Union">European Union</a> countries were impacted by the <a href="/wiki/COVID-19_pandemic" title="COVID-19 pandemic">COVID-19 pandemic</a>. The governments of the various countries adopted healthcare standards aimed at the number of <a href="/wiki/Infection" title="Infection">infected</a> and people who are deceased. A widespread vaccination campaign helped to lower the COVID-19 <a href="/wiki/Mortality_rate" title="Mortality rate">mortality rate</a>. In addition to the <a class="mw-redirect" href="/wiki/COVID-19_vaccines" title="COVID-19 vaccines">COVID-19 vaccines</a>, the mortality rates were determined by the number of <a class="mw-redirect" href="/wiki/Physicians" title="Physicians">physicians</a>, the number of available <a href="/wiki/Intensive_care_unit" title="Intensive care unit">Intensive care unit</a> (ICU) beds and safety policies carried out by governments. Mortality rates varied in Europe depending on whether the countries have a higher or lower rate of the adult population over 65 years of age. Studies show that having an adequate number of <a class="mw-redirect" href="/wiki/Health_professionals" title="Health professionals">health professionals</a> is one of the most important variables in reducing the number of deaths.<a href="#cite_note-8">[8]</a></sup>



</p>


#### Response</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare_in_Europe&action=edit&section=4" title="Edit section: Response">edit</a><span class="mw-editsection-bracket">]</span></span></h4>



The emergence of the <a href="/wiki/Coronavirus" title="Coronavirus">Coronavirus</a> has upended life as we know it in various <a href="/wiki/European_Union" title="European Union">European Union</a> countries. In responding to the <a href="/wiki/COVID-19_pandemic" title="COVID-19 pandemic">COVID-19 pandemic</a>, <a href="/wiki/Public_health" title="Public health">public health</a> infrastructures and resources, governmental, and cultural values all play a key role in stopping the threat. Finding an approach that balances effectiveness, efficiency, and successful response to the pandemic is the key to ending the crisis.



</p><p>European Union countries like <a href="/wiki/Greece" title="Greece">Greece</a> and <a href="/wiki/Sweden" title="Sweden">Sweden</a> have similar populations and sizes. They have a difficult cultural and political stance. The government response of various European countries to the pandemic was to stay home and slow down the spread of the virus. It was proactive in closing businesses and stores early on and even before the first COVID-19 death. The governmental response including the banning of all <a href="/wiki/International_non-essential_travel" title="International non-essential travel">international non-essential travel</a> and <a href="/wiki/COVID-19_lockdowns" title="COVID-19 lockdowns">COVID-19 lockdowns</a> helped to keep the death toll to a minimum.<a href="#cite_note-9">[9]</a></sup>



</p><p>In comparison, the government response to <a class="mw-redirect" href="/wiki/COVID-19_in_Sweden" title="COVID-19 in Sweden">COVID-19 in Sweden</a> was much less stringent than in <a href="/wiki/COVID-19_pandemic_in_Greece" title="COVID-19 pandemic in Greece">Greece</a>. The government of Sweden focused on guidelines that encourage all citizens to take personal responsibility in containing the virus. The <a href="/wiki/Public_Health_Agency_of_Sweden" title="Public Health Agency of Sweden">Public Health Agency of Sweden</a> proposed a ban on gatherings over 500 people, including <a href="/wiki/Social_distancing" title="Social distancing">social distancing</a>. The key concept proposed was solidarity through individual responsibility with all Swedish citiz


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ens obeying the guidelines.<sup>[\[10\]](#cite_note-10)</sup>

</p><p><a href="/wiki/Triage" title="Triage">Triaging</a> issues that determined medical priority to increase <a class="mw-redirect" href="/wiki/Survival\_rates" title="Survival rates">survival rates</a> from COVID-19 contrasted between Sweden and Greece. The Europeans focused strictly on medical protocols and technical expertise from the medical field. This caused a fundamental collapse of the healthcare system, needless deaths, and a misinformed and distrusting public that demanded more <a href="/wiki/Accountability" title="Accountability">accountability</a> from the <a href="/wiki/Member\_state\_of\_the\_European\_Union" title="Member state of the European Union">European Union members</a>, the government, and <a href="/wiki/Health\_professional" title="Health professional">health professionals</a>. With a similar population of 10 million people and other issues aside. As of 10 December 2021, there have been 18,982 deaths in Greece and 15,152 deaths in Sweden.<sup>[\[11\]](#cite_note-11)</sup>

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<h3><span class="mw-headline" id="Life\_expectancy">Life expectancy</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=5" title="Edit section: Life expectancy">edit</a><span class="mw-editsection-bracket">]</span></span></h3>

<p>There is a big gap between genders in <a href="/wiki/Life\_expectancy" title="Life expectancy">life expectancy</a> due to income groups. Studies show that the highest income group tends to live longer. For example, <a href="/wiki/Eastern\_Europe" title="Eastern Europe">Eastern Europe</a> is a low-income region, with a lower life expectancy due to <a class="mw-redirect" href="/wiki/Biological\_factors" title="Biological factors">biological factors</a> including <a href="/wiki/Genetics" title="Genetics">genetics</a>, <a href="/wiki/Nutrition" title="Nutrition">nutrition</a>, and even hormonal issues. However, other factors are non-biological such as <a href="/wiki/Smoking" title="Smoking">smoking</a> and <a href="/wiki/Drinking" title="Drinking">drinking</a> that tend to be part of the decrease in life expectancy for men. These unhealthy lifestyles create life-threatening diseases such as <a href="/wiki/Lung\_cancer" title="Lung cancer">lung cancer</a> and cardiovascular complications. The consumption of alcohol in Europe by men is usually more common between the ages of 20-34 years in men and would increase the life expectancy if consumption is lowered. Another non-biological factor that cooperates with the decrease in life expectancy in <a href="/wiki/Eastern\_Europe" title="Eastern Europe">Eastern Europe</a> would be unhealthy stress that affects <a class="mw-redirect" href="/wiki/Cardiovascular\_health" title="Cardiovascular health">cardiovascular health</a>.<sup class="reference" id="cite\_ref-12">[\[12\]](#cite_note-12)

</p><p>Life expectancy has risen from <a class="mw-redirect" href="/wiki/Birth\_rates" title="Birth rates">birth rates</a> due to significant factors such as the decrease in children's mortality rates, increase in the standard of living, better education, and advances in <a class="mw-redirect" href="/wiki/Healthcare" title="Healthcare">healthcare</a> and <a href="/wiki/Medicine" title="Medicine">medicine</a>. Since the 1960s studies and statistics have shown a rise in life expectancy by a pair of numbers per decade. However, from 2019 to 2020 a slight increase in life expectancy occurred by about 0.2 yrs. Nonetheless, in 2020 a drastic decrease in life expectancy occurred by about - 1.75. This occurred only in some states of Europe because of the COVID-19 pandemic. According to a new study published by the Smithsonian Magazine by the author Ridhi Kashyap, an associate professor of social demography at the <a href="/wiki/University\_of\_Oxford" title="University of Oxford">University of Oxford</a>.<sup class="noprint Inline-Template Template-Fact" style="white-space:nowrap;">*[<i><a href="/wiki/Wikipedia:Citation\_needed" title="Wikipedia:Citation needed">This claim needs references to reliable sources. (September 2022)</a></i>]*</sup>

</p><p>The decrease in life expectancy has been a dramatic one, which is known to be the biggest decrease in life expectancy compared to <a href="/wiki/World\_War\_II" title="World War II">World War II</a>. The explanation given is because due to the poor life expectancy already occurring in the European Union, <a href="/wiki/COVID-19" title="COVID-19">COVID-19</a> made it worse, decreasing life expectancy and causing more deaths.<sup>[\[13\]](#cite_note-13)</sup>

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<h3><span class="mw-headline" id="Vaccination\_rates">Vaccination rates</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=6" title="Edit section: Vaccination rates">edit</a><span class="mw-editsection-bracket">]</span></span></h3>

<p>Vaccines are a powerful tool being used nationwide against COVID-19. At the beginning of the <a href="/wiki/Pandemic" title="Pandemic">pandemic</a>, the <a href="/wiki/Europe" title="Europe">European</a> population aimed to help individuals that were at most risk. This may include older adults over the age of 65 which are more likely to have other health issues. Minorities who do not have complete access to assistance and help from the <a href="/wiki/Government" title="Government">government</a>. Individuals with disabilities are more likely to be affected because of their underlying <a class="mw-redirect" href="/wiki/Medical\_conditions" title="Medical conditions">medical conditions</a>. <a class="mw-redirect" href="/wiki/Minorities" title="Minorities">Minorities</a> who do not have access to the highest level of <a class="mw-redirect" href="/wiki/Medical" title="Medical">medical</a> help.<sup class="reference" id="cite\_ref-14">[\[14\]](#cite_note-14)

</p><p>Due to the high demand on <a class="mw-redirect" href="/wiki/Hospitals" title="Hospitals">hospitals</a>, the <a class="mw-redirect" href="/wiki/Vaccines" title="Vaccines">vaccines</a> served as a mechanism to decrease the load on <a href="#" title="Doctor (title)">doctors</a> and medics. Europe and its members have been actively contributing to handling this pandemic most simply. As of today, 66.9% of Europe's population is fully vaccinated. Europe has been following the "[\[\\[15\\]\]\(#cite\_note-15\)](/wiki/Country "Country")

</p>

<h2><span class="mw-headline" id="See\_also">See also</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=7" title="Edit section: See also">edit</a><span class="mw-editsection-bracket">]</span></span></h2>

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<ul><li><a href="/wiki/Economy\_of\_Europe" title="Economy of Europe">Economy of Europe</a></li>

<li><a class="mw-redirect" href="/wiki/Euro\_health\_consumer\_index" title="Euro health consumer index">Euro health consumer index</a></li>

<li><a href="/wiki/European\_Institute\_of\_Women%27s\_Health" title="European Institute of Women's Health">European Institute of Women's Health</a></li>

- [European Observatory on Health Systems and Policies](/wiki/European_Observatory_on_Health_Systems_and_Policies "European Observatory on Health Systems and Policies")
- [European Practice Assessment](/wiki/European_Practice_Assessment "European Practice Assessment")
- [List of countries with universal health care](/wiki/List_of_countries_with_universal_health_care "List of countries with universal health care")
- [List of European regions by life expectancy](/wiki/List_of_European_regions_by_life_expectancy "List of European regions by life expectancy")

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<li id="cite\_note-6"><span class="mw-cite-backlink"><b><a href="#cite\_ref-6">^</a></b></span> <span class="reference-text"><link href="mw-data:TemplateStyles:r1067248974" rel="mw-deduplicated-inline-style"/><cite class="citation web cs1"><a class="external text" href="https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Tobacco\_consumption\_statistics" rel="nofollow">Tobacco consumption statistics</a>. <i>ec.europa.eu</i><span class="reference-accessdate">. Retrieved <span class="nowrap">16 April</span> 2022.</cite><span class="Z3988" title="ctx\_ver=Z39.88-2004&rft\_val\_fmt=info%3Aof%2Ffmt%3Akev%3Amtx%3Ajournal&rft.genre=unknown&rft.jtitle=ec.europa.eu&rft.atitle=Tobacco+consumption+statistics&rft\_id=https%3A%2F%2Fec.europa.eu%2Feurostat%2Fstatistics-explained%2Findex.php%3Ftitle%3DTobacco\_consumption\_statistics&rfr\_id=info%3Asid%2Fen.wikipedia.org%3AHealthcare+in+Europe"></span></span>

</li>

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</li>

<li id="cite\_note-8"><span class="mw-cite-backlink"><b><a href="#cite\_ref-8">^</a></b></span> <span class="reference-text"><link href="mw-data:TemplateStyles:r1067248974" rel="mw-deduplicated-inline-style"/><cite class="citation journal cs1" id="CITEREFCifuentes-Faura2021">Cifuentes-Faura, Javier (2021). <a class="external text" href="https://doi.org/10.1016/j.puhe.2021.06.018" rel="nofollow">Do the determinants of the COVID-19 mortality rate differ between European Union countries with different adult population pyramids?</a>. <i>Public Health</i>. <b>198</b>: 82-84.</cite><span class="Z3988" title="ctx\_ver=Z39.88-2004&rft\_val\_fmt=info%3Aof%2Ffmt%3Akev%3Amtx%3Ajournal&rft.genre=article&rft.jtitle=Public+Health&rft.atitle=Do+the+determinants+of+the+COVID-19+mortality+rate+differ+between+European+Union+countries+with+different+adult+population+pyramids%3F&rft.volume=198&rft.pages=82-84&rft.date=2021&rft.aulast=Cifuentes-Faura&rft.aufirst=Javier&rft\_id=https%3A%2F%2Fdoi.org%2F10.1016%2Fj.puhe.2021.06.018&rfr\_id=info%3Asid%2Fen.wikipedia.org%3AHealthcare+in+Europe"></span></span>

</li>

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<li id="cite\_note-11"><span class="mw-cite-backlink"><b><a href="#cite\_ref-11">^</a></b></span> <span class="reference-text"><link href="mw-data:TemplateStyles:r1067248974" rel="mw-deduplicated-inline-style"/><cite class="citation journal cs1" id="CITEREOFrfali2021">Orfali, Kristina (24 January 2021). <a class="external text" href="https://doi.org/10.1002/hast.1206" rel="nofollow">Getting to the truth: Ethics, trust, and triage in the United States versus Europe during the COVID-19 pandemic</a>. <i>Hastings Center Report</i>. <b>51</b>: 16-22.</cite><span class="Z3988" title="ctx\_ver=Z39.88-2004&rft\_val\_fmt=info%3Aof%2Ffmt%3Akev%3Amtx%3Ajournal&rft.genre=article&rft.jtitle=Hastings+Center+Report&rft.atitle=Getting+to+the+truth%3A+Ethics%2C+trust%2C+and+triage+in+the+United+States+versus+Europe+during+the+COVID-19+pandemic&rft.volume=51&rft.pages=16-22&rft.date=2021-01-24&rft.aulast=Orfali&rft.aufirst=Kristina&rft\_id=https%3A%2F%2Fdoi.org%2F10.1002%2Fhast.1206&rfr\_id=info%3Asid%2Fen.wikipedia.org%3AHealthcare+in+Europe"></span></span>

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Fwww.ecdc.europa.eu%2Fen%2Fquestions-answers%2Fquestions-and-answers-vaccines&#rfr\_id=info%3Asid%2Fen.wikipedia.org%3AHealthcare+in+Europe"></span><span class="cs1-maint citation-comment"><code class="cs1-code">{{<a href="/wiki/Template:Cite\_web" title="Template:Cite web">cite web</a>}}</code>: CS1 maint: url-status (<a href="/wiki/Category:CS1\_maint:\_url-status" title="Category:CS1 maint: url-status">link</a>)</span></span>

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</li>

</ol></div>

<h2><span class="mw-headline" id="External\_links">External links</span><span class="mw-editsection"><span class="mw-editsection-bracket">[</span><a href="/w/index.php?title=Healthcare\_in\_Europe&action=edit&section=9" title="Edit section: External links">edit</a><span class="mw-editsection-bracket">]</span></span></h2>

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</div></td></tr><tr><th class="navbox-group" scope="row" style="width:1%">Dependencies and<br/>other entities</th><td class="navbox-list-with-group navbox-list navbox-odd hlist" style="width:100%;padding:0"><div style="padding:0 0.25em">

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<li><a class="new" href="/w/index.php?title=Healthcare\_in\_the\_Faroe\_Islands&action=edit&redlink=1" title="Healthcare in the Faroe Islands (page does not exist)">Faroe Islands</a></li>

<li><a class="mw-redirect" href="/wiki/Healthcare\_in\_Gibraltar" title="Healthcare in Gibraltar">Gibraltar</a></li>

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<li><a href="/wiki/Healthcare\_in\_the\_Isle\_of\_Man" title="Healthcare in the Isle of Man">Isle of Man</a></li>

<li><a href="/wiki/Healthcare\_in\_Jersey" title="Healthcare in Jersey">Jersey</a></li>

<li><a class="new" href="/w/index.php?title=Healthcare\_in\_Svalbard&action=edit&redlink=1" title="Healthcare in Svalbard (page does not exist)">Svalbard</a></li></ul>

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<div class="navbox-styles nomobile"><link href="mw-data:TemplateStyles:r1061467846" rel="mw-deduplicated-inline-style"/></div><div aria-labelledby="Health\_in\_Europe" class="navbox" role="navigation" style="padding:3px"><table class="nowraplinks mw-collapsible autocollapse navbox-inner" style="border-spacing:0;background:transparent;color:inherit"><tbody><tr><th class="navbox-title" colspan="2" scope="col"><link href="mw-data:TemplateStyles:r1063604349" rel="mw-deduplicated-inline-style"/><div class="navbar plainlinks hlist navbar-mini"><ul><li class="nv-view"><a href="/wiki/Template:Europe\_topic" title="Template:Europe topic"><abbr style="">View this template</abbr></a></li><li class="nv-talk"><a href="/wiki/Template\_talk:Europe\_topic" title="Template talk:Europe topic"><abbr style="">Discuss this template</abbr></a></li><li class="nv-edit"><a class="external text" href="https://en.wikipedia.org/w/index.php?title=Template:Europe\_topic&action=edit"><abbr style="">Edit this template</abbr></a></li></ul></div><div id="Health\_in\_Europe" style="font-size:114%;margin:0 4em"><a class="mw-redirect" href="/wiki/Health\_in\_Europe" title="Health in Europe">Health in Europe </a></div></th><th class="navbox-group" scope="row" style="width:1%">Sovereign states</th><td class="navbox-list-with-group navbox-list navbox-odd hlist" style="width:100%;padding:0"><div style="padding:0 0.25em">

<ul><li><a href="/wiki/Health\_in\_Albania" title="Health in Albania">Albania</a></li>

<li><a href="/wiki/Health\_in\_Andorra" title="Health in Andorra">Andorra</a></li>

<li><a href="/wiki/Health\_in\_Armenia" title="Health in Armenia">Armenia</a></li>

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<li><a href="/wiki/Health\_in\_Azerbaijan" title="Health in Azerbaijan">Azerbaijan</a></li>

<li><a href="/wiki/Health\_in\_Belarus" title="Health in Belarus">Belarus</a></li>

<li><a href="/wiki/Health\_in\_Belgium" title="Health in Belgium">Belgium</a></li>

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<li><a href="/wiki/Health\_in\_Cyprus" title="Health in Cyprus">Cyprus</a></li>

<li><a href="/wiki/Health\_in\_the\_Czech\_Republic" title="Health in the Czech Republic">Czech Republic</a></li>

<li><a href="/wiki/Health\_in\_Denmark" title="Health in Denmark">Denmark</a></li>

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<li><a href="/wiki/Health\_in\_Finland" title="Health in Finland">Finland</a></li>

<li><a href="/wiki/Health\_in\_France" title="Health in France">France</a></li>

<li><a class="mw-redirect" href="/wiki/Health\_in\_Georgia\_(country)" title="Health in Georgia (country)">Georgia</a></li>

<li><a href="/wiki/Health\_in\_Germany" title="Health in Germany">Germany</a></li>

<li><a href="/wiki/Health\_in\_Greece" title="Health in Greece">Greece</a></li>

<li><a href="/wiki/Health\_in\_Hungary" title="Health in Hungary">Hungary</a></li>

<li><a href="/wiki/Health\_in\_Iceland" title="Health in Iceland">Iceland</a></li>

<li><a href="/wiki/Health\_in\_the\_Republic\_of\_Ireland" title="Health in the Republic of Ireland">Ireland</a></li>

<li><a href="#" class="mw-empty-elt"></a></li>

<li><a href="/wiki/Health\_in\_Italy" title="Health in Italy">Italy</a></li>

<li><a class="mw-redirect" href="/wiki/Health\_in\_Kazakhstan" title="Health in Kazakhstan">Kazakhstan</a></li>

<li><a href="/wiki/Health\_in\_Latvia" title="Health in Latvia">Latvia</a></li>

<li><a class="mw-redirect" href="/wiki/Health\_in\_Liechtenstein" title="Health in Liechtenstein">Liechtenstein</a></li>

<li><a href="/wiki/Health\_in\_Lithuania" title="Health in Lithuania">Lithuania</a></li>

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<li><a href="/wiki/Health\_in\_Malta" title="Health in Malta">Malta</a></li>

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<li><a href="/wiki/Health\_in\_Monaco" title="Health in Monaco">Monaco</a></li>

<li><a href="/wiki/Health\_in\_Montenegro" title="Health in Montenegro">Montenegro</a></li>

<li><a href="/wiki/Health\_in\_the\_Netherlands" title="Health in the Netherlands">Netherlands</a></li>

<li><a href="/wiki/Health\_in\_North\_Macedonia" title="Health in North Macedonia">North Macedonia</a></li>

<li><a href="/wiki/Health\_in\_Norway" title="Health in Norway">Norway</a></li>

<li><a href="/wiki/Health\_in\_Poland" title="Health in Poland">Poland</a></li>

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<li><a href="/wiki/Health\_in\_Ukraine" title="Health in Ukraine">Ukraine</a></li>

<li><a href="/wiki/Health\_in\_the\_United\_Kingdom" title="Health in the United Kingdom">United Kingdom</a></li></ul>

</div></td></tr><tr><th class="navbox-group" scope="row" style="width:1%">States with limited<br/>recognition</th><td class="navbox-list-with-group navbox-list navbox-even hlist" style="width:100%;padding:0"><div style="padding:0 0.25em">

<ul><li><a class="new" href="/w/index.php?title=Health\_in\_Abhazia&action=edit&redlink=1" title="Health in Abkhazia (page does not exist)">Abkhazia</a></li>

<li><a class="new" href="/w/index.php?title=Health\_in\_the\_Republic\_of\_Artsakh&action=edit&redlink=1" title="Health in the Republic of Artsakh (page does not exist)">Artsakh</a></li>

<li><a class="mw-redirect" href="/wiki/Health\_in\_Kosovo" title="Health in Kosovo">Kosovo</a></li>

<li><a href="/wiki/Health\_in\_Northern\_Cyprus" title="Health in Northern Cyprus">Northern Cyprus</a></li>

<li><a class="new" href="/w/index.php?title=Health\_in\_South\_Ossetia&action=edit&redlink=1" title="Health in South Ossetia (page does not exist)">South Ossetia</a></li>

<li><a class="new" href="/w/index.php?title=Health\_in\_Transnistria&action=edit&redlink=1" title="Health in Transnistria (page does not exist)">Transnistria</a></li></ul>

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<div class="navbox-styles nomobile"><link href="mw-data:TemplateStyles:r1061467846" rel="mw-deduplicated-inline-style"/></div><div aria-labelledby="List\_of\_hospitals\_in\_Europe" class="navbox" role="navigation" style="padding:3px"><table class="nowraplinks mw-collapsible autocollapse navbox-inner" style="border-spacing:0;background:transparent;color:inherit"><tbody><tr><th class="navbox-title" colspan="2" scope="col"><link href="mw-data:TemplateStyles:r1063604349" rel="mw-deduplicated-inline-style"/><div class="navbar plainlinks hlist navbar-mini"><ul><li class="nv-view"><a href="/wiki/Template:Europe\_topic" title="Template:Europe topic">View this template</a></li><li class="nv-talk"><a href="/wiki/Template\_talk:Europe\_topic" title="Template talk:Europe topic">Discuss this template</a></li><li class="nv-edit"><a class="external text" href="https://en.wikipedia.org/w/index.php?title=Template:Europe\_topic&action=edit" title="Edit this template">Edit</a></li></ul></div><div id="List\_of\_hospitals\_in\_Europe" style="font-size:114%;margin:0 4em"><a class="mw-redirect" href="/wiki/List\_of\_hospitals\_in\_Europe" title="List of hospitals in Europe">List of hospitals in Europe</a></div></td><td class="navbox-list-with-group navbox-list navbox-odd hlist" style="width:100%;padding:0">

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<ul><li><a href="/wiki/List\_of\_hospitals\_in\_Albania" title="List of hospitals in Albania">Albania</a></li>

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<li><a class="mw-redirect" href="/wiki/List\_of\_hospitals\_in\_Vatican\_City" title="List of hospitals in Vatican City">Vatican City</a></li></ul>

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<div class="navbox-styles nomobile"><link href="mw-data:TemplateStyles:r1061467846" rel="mw-deduplicated-inline-style"/></div><div aria-labelledby="Authority\_control:\_National\_libraries\_frameless&#124;text-top&#124;10px&#124;alt=Edit\_this\_at\_Wikidata&#124;link=https&#58;//www.wikidata.org/wiki/Q5691262#identifiers&#124;class=noprint&#124;Edit\_this\_at\_Wikidata" class="navbox authority-control" role="navigation" style="padding:3px"><table class="nowraplinks hlist navbox-inner" style="border-spacing:0;background:transparent;color:inherit"><tbody><tr><th class="navbox-group" id="Authority\_control:\_National\_libraries\_frameless&#124;text-top&#124;10px&#124;alt=Edit\_this\_at\_Wikidata&#124;link=https&#58;//www.wikidata.org/wiki/Q5691262#identifiers&#124;class=noprint&#124;Edit\_this\_at\_Wikidata" scope="row" style="width:1%"><a href="/wiki/Help:Authority\_control" title="Help:Authority control">Authority control: National libraries</a> <a href="https://www.wikidata.org/wiki/Q5691262#identifiers" title="Edit this at Wikidata"></a></th><td class="navbox-list-with-group navbox-list navbox-odd" style="width:100%;padding:0"><div style="padding:0 0.25em"><ul><li><span class="uid"><a class="external text" href="https://id.loc.gov/authorities/subjects/sh2010101166" rel="nofollow">United States</a></span></li></ul></div></td></tr></tbody></table></div>

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NewPP limit report

Parsed by mw2337

Cached time: 20221214174542

Cache expiry: 1814400

Reduced expiry: false

Complications: [vary-revision-sha1, show-toc]

CPU time usage: 0.572 seconds

Real time usage: 0.691 seconds

Preprocessor visited node count: 33511/1000000

Post-expand include size: 125959/2097152 bytes

Template argument size: 18989/2097152 bytes

Highest expansion depth: 15/100

Expensive parser function count: 17/500

Unstrip recursion depth: 1/20

Unstrip post-expand size: 58657/5000000 bytes

Lua time usage: 0.239/10.000 seconds

Lua memory usage: 7477782/52428800 bytes

Number of Wikibase entities loaded: 1/400

-->

<!--

Transclusion expansion time report (%ms,calls,template)

|         |         |                                  |
|---------|---------|----------------------------------|
| 100.00% | 609.218 | 1 -total                         |
| 52.47%  | 319.671 | 3 Template:Navbox                |
| 40.03%  | 243.879 | 147 Template:Iso2country         |
| 31.30%  | 190.703 | 2 Template:Europe_in_topic       |
| 23.19%  | 141.297 | 1 Template:Health_care_in_Europe |
| 22.56%  | 137.430 | 1 Template:Europe_topic          |
| 21.71%  | 132.270 | 1 Template:Reflist               |
| 14.39%  | 87.650  | 9 Template:Cite_web              |
| 11.90%  | 72.505  | 147 Template:Iso2country/data    |
| 6.01%   | 36.602  | 2 Template:Fix                   |

-->

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<!-- Saved in parser cache with key enwiki:pcache:idhash:15973120-0!canonical and timestamp 20221214174541 and revision id 1108727875.
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</div><noscript></noscript>
<div class="printfooter" data-nosnippet="">Retrieved from "<a dir="ltr" href="https://en.wikipedia.org/w/index.php?title=Healthcare_in_Europe&oldid=1108727875">https://en.wikipedia.org/w/index.php?title=Healthcare_in_Europe&oldid=1108727875</a>"</div>
<div class="catlinks" data-mw="interface" id="catlinks"><div class="mw-normal-catlinks" id="mw-normal-catlinks">
<a href="/wiki/Help:Category" title="Help:Category">Categories</a>: <ul><li><a href="/wiki/Category:Health_in_Europe" title="Category:Health in Europe">Health in Europe</a></li></ul></div><div class="mw-hidden-catlinks mw-hidden-cats-hidden" id="mw-hidden-catlinks">Hidden categories: <ul><li><a href="/wiki/Category:CS1_maint:_url-status" title="Category:CS1 maint: url-status">CS1 maint: url-status</a></li><li><a href="/wiki/Category:Use_dmy_dates_from_December_2021" title="Category:Use dmy dates from December 2021">Use dmy dates from December 2021</a></li><li><a href="/wiki/Category:All_articles_with_unsourced_statements" title="Category:All articles with unsourced statements">All articles with unsourced statements</a></li><li><a href="/wiki/Category:Articles_with_unsourced_statements_from_January_2021" title="Category:Articles with unsourced statements from January 2021">Articles with unsourced statements from January 2021</a></li><li><a href="/wiki/Category:Articles_with_unsourced_statements_from_September_2022" title="Category:Articles with unsourced statements from September 2022">Articles with unsourced statements from September 2022</a></li><li><a href="/wiki/Category:Articles_with_LCCN_identifiers" title="Category:Articles with LCCN identifiers">Articles with LCCN identifiers</a></li></ul></div></div>
</div>

<div id="mw-navigation">
<h2>Navigation menu</h2>
<div id="mw-head">

<nav aria-labelledby="p-personal-label" class="vector-menu mw-portlet mw-portlet-personal vector-user-menu-legacy" id="p-personal" role="navigation">
<h3 class="vector-menu-heading" id="p-personal-label">
<span class="vector-menu-heading-label">Personal tools</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="mw-list-item" id="pt-anonuserpage"><span title="The user page for the IP address you are editing as">Not logged in</span></li><li class="mw-list-item" id="pt-anontalk"><a accesskey="n" href="/wiki/Special:MyTalk" title="Discussion about edits from this IP address [n]"><span>Talk</span></a></li><li class="mw-list-item" id="pt-anoncontribs"><a accesskey="y" href="/wiki/Special:MyContributions" title="A list of edits made from this IP address [y]"><span>Contributions</span></a></li><li class="mw-list-item" id="pt-createaccount"><a href="/w/index.php?title=Special>CreateAccount&returnto=Healthcare+in+Europe" title="You are encouraged to create an account and log in; however, it is not mandatory"><span>Create account</span></a></li><li class="mw-list-item" id="pt-login"><a accesskey="o" href="/w/index.php?title=Special:UserLogin&returnto=Healthcare+in+Europe" title="You're encouraged to log in; however, it's not mandatory. [o]"><span>Log in</span></a></li></ul>
</div>
</nav>

<div id="left-navigation">

<nav aria-labelledby="p-namespaces-label" class="vector-menu mw-portlet mw-portlet-namespaces vector-menu-tabs vector-menu-tabs-legacy" id="p-namespaces" role="navigation">
<h3 class="vector-menu-heading" id="p-namespaces-label">
<span class="vector-menu-heading-label">Namespaces</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="selected mw-list-item" id="ca-nstab-main"><a accesskey="c" href="/wiki/Healthcare_in_Europe" title="View the content page [c]"><span>Article</span></a></li><li class="mw-list-item" id="ca-talk"><a accesskey="t" href="/wiki/Talk:Healthcare_in_Europe" rel="discussion" title="Discuss improvements to the content page [t]"><span>Talk</span></a></li></ul>
</div>
</nav>

<nav aria-labelledby="p-variants-label" class="vector-menu mw-portlet mw-portlet-variants emptyPortlet vector-menu-dropdown-noicon vector-menu-dropdown" id="p-variants" role="navigation">
<input aria-haspopup="true" aria-labelledby="p-variants-label" class="vector-menu-checkbox" data-event-name="ui.dropdown-p-variants" id="p-variants-checkbox" role="button" type="checkbox"/>
<label aria-label="Change language variant" class="vector-menu-heading" id="p-variants-label">
<span class="vector-menu-heading-label">English</span>
</label>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"></ul>

```

```

        </div>
    </nav>

        </div>
        <div id="right-navigation">

<nav aria-labelledby="p-views-label" class="vector-menu mw-portlet mw-portlet-views vector-menu-tabs vector-menu-tabs-legacy" id="p-views" role="navigation">
    <h3 class="vector-menu-heading" id="p-views-label">
        <span class="vector-menu-heading-label">Views</span>
    </h3>
    <div class="vector-menu-content">

        <ul class="vector-menu-content-list"><li class="selected mw-list-item" id="ca-view"><a href="/wiki/Healthcare_in_Europe">Read</a></li><li class="mw-list-item" id="ca-edit"><a accesskey="e" href="/w/index.php?title=Healthcare_in_Europe&action=edit" title="Edit this page [e]"><span>Edit</span></a></li><li class="mw-list-item" id="ca-history"><a accesskey="h" href="/w/index.php?title=Healthcare_in_Europe&action=history" title="Past revisions of this page [h]"><span>View history</span></a></li></ul>

    </div>
</nav>

<nav aria-labelledby="p-cactions-label" class="vector-menu mw-portlet mw-portlet-cactions emptyPortlet vector-menu-dropdown-noicon vector-menu-dropdown" id="p-cactions" role="navigation" title="More options">
    <input aria-haspopup="true" aria-labelledby="p-cactions-label" class="vector-menu-checkbox" data-event-name="ui.dropdown-p-cactions" id="p-cactions-checkbox" role="button" type="checkbox"/>
    <label class="vector-menu-heading" id="p-cactions-label">
        <span class="vector-menu-heading-label">More</span>
    </label>
    <div class="vector-menu-content">

        <ul class="vector-menu-content-list"></ul>

    </div>
</nav>

<div class="vector-search-box-vue vector-search-box-show-thumbnail vector-search-box-auto-expand-width vector-search-box" id="p-search" role="search">
    <div>
        <form action="/w/index.php" class="vector-search-box-form" id="searchform">
            <div class="vector-search-box-inner" data-search-loc="header-navigation" id="simpleSearch">
                <input accesskey="f" aria-label="Search Wikipedia" autocapitalize="sentences" class="vector-search-box-input" id="searchInput" name="search" placeholder="Search Wikipedia" title="Search Wikipedia [f]" type="search"/>
                <input name="title" type="hidden" value="Special:Search"/>
                <input class="searchButton mw-fallbackSearchButton" id="mw-searchButton" name="fulltext" title="Search Wikipedia for this text" type="submit" value="Search"/>
                <input class="searchButton" id="searchButton" name="go" title="Go to a page with this exact name if it exists" type="submit" value="Go"/>
            </div>
        </form>
    </div>
</div>

    </div>
</div>

<div class="vector-legacy-sidebar" id="mw-panel">
    <div id="p-logo" role="banner">
        <a class="mw-wiki-logo" href="/wiki/Main_Page" title="Visit the main page"></a>
    </div>

<nav aria-labelledby="p-navigation-label" class="vector-menu mw-portlet mw-portlet-navigation vector-menu-portal portal" id="p-navigation" role="navigation">
    <h3 class="vector-menu-heading" id="p-navigation-label">
        <span class="vector-menu-heading-label">Navigation</span>
    </h3>
    <div class="vector-menu-content">

        <ul class="vector-menu-content-list"><li class="mw-list-item" id="n-mainpage-description"><a accesskey="z" href="/wiki/Main_Page" title="Visit the main page [z]"><span>Main page</span></a></li><li class="mw-list-item" id="n-contents"><a href="/wiki/Wikipedia:Contents" title="Guides to browsing Wikipedia"><span>Contents</span></a></li><li class="mw-list-item" id="n-currentevents"><a href="/wiki/Portal:Current_events" title="Articles related to current events"><span>Current events</span></a></li><li class="mw-list-item" id="n-randompage"><a accesskey="x" href="/wiki/Special:Random" title="Visit a randomly selected article [x]"><span>Random article</span></a></li><li class="mw-list-item" id="n-aboutsite"><a href="/wiki/Wikipedia:About" title="Learn about Wikipedia and how it works"><span>About Wikipedia</span></a></li><li class="mw-list-item" id="n-contactpage"><a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to contact Wikipedia"><span>Contact us</span></a></li><li class="mw-list-item" id="n-sitesupport"><a href="https://donate.wikimedia.org/wiki/Special:FundraiserRedirector?utm_source=donate&utm_medium=sidebar&utm_campaign=C13_en.wikipedia.org&utm_lang=en" title="Support us by donating to the Wikimedia Foundation"><span>Donate</span></a></li></ul>

    </div>
</nav>

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```

<nav aria-labelledby="p-interaction-label" class="vector-menu mw-portlet mw-portlet-interaction vector-menu-portal portal" id="p-interaction" role="navigation">
    <h3 class="vector-menu-heading" id="p-interaction-label">
        <span class="vector-menu-heading-label">Contribute</span>
    </h3>
    <div class="vector-menu-content">

        <ul class="vector-menu-content-list"><li class="mw-list-item" id="n-help"><a href="/wiki/Help:Contents" title="Guidance on how to use and edit Wikipedia"><span>Help</span></a></li><li class="mw-list-item" id="n-introduction"><a href="/wiki/Help:Introduction" title="Learn how to edit Wikipedia"><span>Learn to edit</span></a></li><li class="mw-list-item" id="n-portal"><a href="/wiki/Wikipedia:Community_portal" title="The hub for editors"><span>Community portal</span></a></li><li class="mw-list-item" id="n-recentchanges"><a accesskey="r" href="/wiki/Special:RecentChanges" title="A list of recent changes to Wikipedia [r]"><span>Recent changes</span></a></li><li class="mw-list-item" id="n-upload"><a href="/wiki/Wikipedia:File_Upload_Wizard" title="Add images or other media for use on Wikipedia"><span>Upload file</span></a></li></ul>

    </div>
</nav>

<nav aria-labelledby="p-tb-label" class="vector-menu mw-portlet mw-portlet-tb vector-menu-portal portal" id="p-tb" role="navigation">
    <h3 class="vector-menu-heading" id="p-tb-label">
        <span class="vector-menu-heading-label">Tools</span>
    </h3>
    <div class="vector-menu-content">

        <ul class="vector-menu-content-list"><li class="mw-list-item" id="t-whatlinkshere"><a accesskey="j" href="/wiki/Special:WhatLinksHere/Healthcare_in_Europe" title="List of all English Wikipedia pages containing links to this page [j]"><span>What links here</span></a></li><li class="mw-list-item" id="t-recentchangeslinked"><a accesskey="k" href="/wiki/Special:RecentChangesLinked/Healthcare_in_Europe" rel="nofollow" title="Recent changes in pages linked from this page [k]"><span>Related changes</span></a></li><li class="mw-list-item" id="t-upload"><a accesskey="u" href="/wiki/Wikipedia:File_Upload_Wizard" title="Upload files [u]"><span>Upload file</span></a></li><li class="mw-list-item" id="t-specialpages"><a accesskey="q" href="/wiki/Special:SpecialPages" title="A list of all special pages [q]"><span>Special pages</span></a></li><li class="mw-list-item" id="t-permalink"><a href="/w/index.php?title=Healthcare_in_Europe&oldid=1108727875" title="Permanent link to this revision of this page"><span>Permanent link</span></a></li><li class="mw-list-item" id="t-info"><a href="/w/index.php?title=Healthcare_in_Europe&action=info" title="More information about this page"><span>Page information</span></a></li><li class="mw-list-item" id="t-cite"><a href="/w/index.php?title=Special:CiteThisPage&page=Healthcare_in_Europe&id=1108727875&wpFormIdentifier=titleform" title="Information on how to cite this page"><span>Cite this page</span></a></li><li class="mw-list-item" id="t-wikibase"><a accesskey="g" href="https://www.wikidata.org/wiki/Special:EntityPage/Q5691262" title="Structured data on this page hosted by Wikidata [g]"><span>Wikidata item</span></a></li></ul>

    </div>
</nav>

<nav aria-labelledby="p-coll-print_export-label" class="vector-menu mw-portlet mw-portlet-coll-print_export vector-menu-portal portal" id="p-coll-print_export" role="navigation">
    <h3 class="vector-menu-heading" id="p-coll-print_export-label">
        <span class="vector-menu-heading-label">Print/export</span>
    </h3>
    <div class="vector-menu-content">

        <ul class="vector-menu-content-list"><li class="mw-list-item" id="coll-download-as-rl"><a href="/w/index.php?title=Special:DownloadAsPdf&page=Healthcare_in_Europe&action=show-download-screen" title="Download this page as a PDF file"><span>Download as PDF</span></a></li><li class="mw-list-item" id="t-print"><a accesskey="p" href="/w/index.php?title=Healthcare_in_Europe&printable=yes" title="Printable version of this page [p]"><span>Printable version</span></a></li></ul>

    </div>
</nav>

<nav aria-labelledby="p-lang-label" class="vector-menu mw-portlet mw-portlet-lang vector-menu-portal portal" id="p-lang" role="navigation">
    <h3 class="vector-menu-heading" id="p-lang-label">
        <span class="vector-menu-heading-label">Languages</span>
    </h3>
    <div class="vector-menu-content">

        <ul class="vector-menu-content-list"><li class="interlanguage-link interwiki-uk mw-list-item"><a class="interlanguage-link-target" href="https://uk.wikipedia.org/wiki/%D0%9E%D1%85%D0%BE%D1%80%D0%BE%D0%BD%D0%B0_%D0%B7%D0%B4%D0%BE%D1%80%D0%BE%D0%B2%D0%80%D0%9F_%D0%B2_%D0%84%D0%B2%D1%80%D0%BE%D0%BF%D1%96" hreflang="uk" lang="uk" title="Охорона здоров'я в Європі - Ukrainian"><span>Українська</span></a></li></ul>

        <div class="after-portlet after-portlet-lang"><span class="wb-langlinks-edit wb-langlinks-link"><a class="wbc-editpage" href="https://www.wikidata.org/wiki/Special:EntityPage/Q5691262#sitelinks-wikipedia" title="Edit interlanguage links">Edit links</a></span></div>
    </div>
</nav>

</div>
</div>

<footer class="mw-footer" id="footer" role="contentinfo">
    <ul id="footer-info">
        <li id="footer-info-lastmod"> This page was last edited on 5 September 2022, at 23:23<span class="anonymous-show"> (UTC)</span></li>
        <li id="footer-info-copyright">Text is available under the <a href="//en.wikipedia.org/wiki/Wikipedia:Text_of_Creative Commons_Attribution-ShareAlike_3.0_Unported_License" rel="license">Creative Commons Attribution-ShareAlike License 3.0</a><a href ="//creativecommons.org/licenses/by-sa/3.0/" rel="license" style="display:none;"></a>; additional terms may apply. By using this site, you agree to the <a href="//foundation.wikimedia.org/wiki/Terms_of_Use">Terms o

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</ul>

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<li id="footer-places-privacy"><a href="https://foundation.wikimedia.org/wiki/Privacy_policy">Privacy policy</a></li>
<li id="footer-places-about"><a href="/wiki/Wikipedia:About">About Wikipedia</a></li>
<li id="footer-places-disclaimers"><a href="/wiki/Wikipedia:General_disclaimer">Disclaimers</a></li>
<li id="footer-places-contact"><a href="//en.wikipedia.org/wiki/Wikipedia>Contact_us">Contact Wikipedia</a></li>
<li id="footer-places-mobileview"><a class="noprint stopMobileRedirectToggle" href="//en.m.wikipedia.org/w/index.php?tit
le=Healthcare_in_Europe&mobileaction=toggle_view_mobile">Mobile view</a></li>
<li id="footer-places-developers"><a href="https://developer.wikimedia.org">Developers</a></li>
<li id="footer-places-statslink"><a href="https://stats.wikimedia.org/#/en.wikipedia.org">Statistics</a></li>
<li id="footer-places-cookiestate"><a href="https://foundation.wikimedia.org/wiki/Cookie_statement">Cookie statement
</a></li>
</ul>

<ul class="noprint" id="footer-icons">
<li id="footer-copyrightico"><a href="https://wikimediafoundation.org/"></a></li>
<li id="footer-poweredbyico"><a href="https://www.mediawiki.org/"></a></li>
</ul>

</footer>

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```

In [10]:

```
#getting required table element from the webpage
table=HCE.find('table', attrs={'class':table_title})
table
```

Out[10]:

```
<table class="wikitable floatright sortable" style="font-size: 90%">
<caption style="font-size:100%">EU countries with the highest life expectancy (2019)<sup class="reference" id="cite_ref-hdr-life
-exp_4-0"><a href="#cite_note-hdr-life-exp-4">[4]</a></sup>
</caption>
<tbody><tr>
<th>World<br/>Rank
</th>
<th>EU<br/>Rank
</th>
<th>Country
</th>
<th colspan="3">Life expectancy<br/>at birth (years)
</th></tr>
<tr>
<td>5.
</td>
<td>1.
</td>
<td><a href="/wiki/Spain" title="Spain">Spain</a>
</td>
<td>83.4
</td></tr>
<tr>
<td>6.
</td>
<td>2.
</td>
<td><a href="/wiki/Italy" title="Italy">Italy</a>
</td>
<td>83.4
</td></tr>
<tr>
<td>11.
</td>
<td>3.
</td>
<td><a href="/wiki/Sweden" title="Sweden">Sweden</a>
</td>
<td>82.7
</td></tr>
<tr>
<td>12.
</td>
<td>4.
</td>
```

```

</td>
<td><a href="/wiki/France" title="France">France</a>
</td>
<td>82.5
</td></tr>
<tr>
<td>13.
</td>
<td>5.
</td>
<td><a href="/wiki/Malta" title="Malta">Malta</a>
</td>
<td>82.4
</td></tr>
<tr>
<td>16.
</td>
<td>6.
</td>
<td><a href="/wiki/Ireland" title="Ireland">Ireland</a>
</td>
<td>82.1
</td></tr>
<tr>
<td>17.
</td>
<td>7.
</td>
<td><a href="/wiki/Netherlands" title="Netherlands">Netherlands</a>
</td>
<td>82.1
</td></tr>
<tr>
<td>19.
</td>
<td>8.
</td>
<td><a href="/wiki/Luxembourg" title="Luxembourg">Luxembourg</a>
</td>
<td>82.1
</td></tr>
<tr>
<td>20.
</td>
<td>9.
</td>
<td><a href="/wiki/Greece" title="Greece">Greece</a>
</td>
<td>82.1
</td></tr>
</tbody></table>

```

In [11]:

```
#getting table headers
table_headers=[x.text for x in table.find_all('th')] # .text gives attribute gives content/value part
table_headers
```

Out[11]: ['WorldRank\n', 'EURank\n', 'Country\n', 'Life expectancy at birth (years)\n']

In [12]:

```
#getting all table rows and data
test1=table.find_all('tr')
test1
```

Out[12]:

```
[<tr>
<th>World<br/>Rank
</th>
<th>EU<br/>Rank
</th>
<th>Country
</th>
<th colspan="3">Life expectancy<br/>at birth (years)
</th></tr>,
<tr>
<td>5.
</td>
<td>1.
</td>
<td><a href="/wiki/Spain" title="Spain">Spain</a>
</td>
<td>83.4
</td></tr>,
<tr>
<td>6.
</td>
<td>2.
</td>
<td><a href="/wiki/Italy" title="Italy">Italy</a>
</td>
<td>83.4
</td></tr>,
<tr>
```

```

<td>11.
</td>
<td>3.
</td>
<td><a href="/wiki/Sweden" title="Sweden">Sweden</a>
</td>
<td>82.7
</td></tr>,
<tr>
<td>12.
</td>
<td>4.
</td>
<td><a href="/wiki/France" title="France">France</a>
</td>
<td>82.5
</td></tr>,
<tr>
<td>13.
</td>
<td>5.
</td>
<td><a href="/wiki/Malta" title="Malta">Malta</a>
</td>
<td>82.4
</td></tr>,
<tr>
<td>16.
</td>
<td>6.
</td>
<td><a href="/wiki/Ireland" title="Ireland">Ireland</a>
</td>
<td>82.1
</td></tr>,
<tr>
<td>17.
</td>
<td>7.
</td>
<td><a href="/wiki/Netherlands" title="Netherlands">Netherlands</a>
</td>
<td>82.1
</td></tr>,
<tr>
<td>19.
</td>
<td>8.
</td>
<td><a href="/wiki/Luxembourg" title="Luxembourg">Luxembourg</a>
</td>
<td>82.1
</td></tr>,
<tr>
<td>20.
</td>
<td>9.
</td>
<td><a href="/wiki/Greece" title="Greece">Greece</a>
</td>
<td>82.1
</td></tr>1

```

In [13]:

```

#creating 2D array of data values
rows=[]
for row in table.find_all('tr'): #iterate over all rows and then process their data
    rows.append([data.text.encode('utf-8').decode() for data in row.find_all('td')]) #encoding is important to ensure accurate rows

```

Out[13]:

```

[[],
['5.\n', '1.\n', 'Spain\n', '83.4\n'],
['6.\n', '2.\n', 'Italy\n', '83.4\n'],
['11.\n', '3.\n', 'Sweden\n', '82.7\n'],
['12.\n', '4.\n', 'France\n', '82.5\n'],
['13.\n', '5.\n', 'Malta\n', '82.4\n'],
['16.\n', '6.\n', 'Ireland\n', '82.1\n'],
['17.\n', '7.\n', 'Netherlands\n', '82.1\n'],
['19.\n', '8.\n', 'Luxembourg\n', '82.1\n'],
['20.\n', '9.\n', 'Greece\n', '82.1\n']]

```

In [14]:

```

#have got column labels and rows, now we build dataframe
df1=pd.DataFrame(rows,columns=table_headers)
df1

```

Out[14]:

	WorldRank\n	EURank\n	Country\n	Life expectancyat birth (years)\n
0	None	None	None	None
1	5.\n	1.\n	Spain\n	83.4\n

	WorldRank\n	EURank\n	Country\n	Life expectancyat birth (years)\n
2	6.\n	2.\n	Italy\n	83.4\n
3	11.\n	3.\n	Sweden\n	82.7\n
4	12.\n	4.\n	France\n	82.5\n
5	13.\n	5.\n	Malta\n	82.4\n
6	16.\n	6.\n	Ireland\n	82.1\n
7	17.\n	7.\n	Netherlands\n	82.1\n
8	19.\n	8.\n	Luxembourg\n	82.1\n

In [15]:

```
#data cleaning function
def preproc(dat):
    dat.columns=dat.columns.str.replace('\n','')
    dat.dropna(axis=0, how='all', inplace=True)
    dat.replace(['\n'],[],inplace=True,regex=True )
    dat.replace(['\s*\$'],[],inplace=True,regex=True )
    dat.replace(['^\s'],[],inplace=True,regex=True )
    dat.replace([' ',''],[],inplace=True,regex=True )
    dat.replace(r'\b[a-zA-Z]\b', np.nan, inplace=True, regex=True)
    dat=dat.apply(pd.to_numeric, errors='ignore')
    return dat
```

In [16]:

```
#cleaning the df
df1=preproc(df1)
df1
```

Out[16]:

	WorldRank	EURank	Country	Life expectancyat birth (years)
1	5.0	1.0	Spain	83.4
2	6.0	2.0	Italy	83.4
3	11.0	3.0	Sweden	82.7
4	12.0	4.0	France	82.5
5	13.0	5.0	Malta	82.4
6	16.0	6.0	Ireland	82.1
7	17.0	7.0	Netherlands	82.1
8	19.0	8.0	Luxembourg	82.1
9	20.0	9.0	Greece	82.1

In [17]:

```
#chekcing for right datatypes
df1.dtypes
```

Out[17]:

WorldRank	float64
EURank	float64
Country	object
Life expectancyat birth (years)	float64
dtype:	object

In [18]:

```
#cheching for null values
df1.isna().sum(axis=0)
```

Out[18]:

WorldRank	0
EURank	0
Country	0
Life expectancyat birth (years)	0
dtype:	int64

## Getting another data from different table

```
In [19]: #getting table name in html document
url='https://en.wikipedia.org/wiki/List_of_countries_by_total_health_expenditure_per_capita'
res_obj=urllib2.urlopen(url)#returns a response object
htmlpage_as_list=res_obj.readlines()#byteform lines
res_obj.close()
lst=[]
for line in htmlpage_as_list:
    line=str(line).strip()
    if re.search(r'table class',line):
        lst.append(line)
table_title=re.findall(r'"(.*?)"',lst[0] )
table_title=table_title[0]

#extracting table data
res_obj=urllib2.urlopen(url)
HEE=BeautifulSoup(res_obj.read(),'html5lib')
res_obj.close()
table=HEE.find('table',{'class':table_title})
headers=[x.text for x in table.find_all('th')]
rows=[]
for row in table.find_all('tr'):
    rows.append([val.text.encode('utf-8').decode() for val in row.find_all('td')])#very important step
```

```
In [20]: rows
```

```
Out[20]: [[], ['\xa0Australia\u202f*\n', '4,711\n', '4,965\n', '5,187\n'], ['\xa0Austria\u202f*\n', '5,360\n', '5,538\n', '5,851\n'], ['\xa0Belgium\u202f*\n', '5,014\n', '5,103\n', '5,428\n'], ['\xa0Canada\u202f*\n', '5,155\n', '5,287\n', '5,418\n'], ['\xa0Chile\u202f*\n', '2,030\n', '2,126\n', '2,159\n'], ['\xa0Colombia\u202f*\n', '1,156\n', '1,201\n', '1,213\n'], ['\xa0Czech Republic\u202f*\n', '2,891\n', '3,171\n', '3,428\n'], ['\xa0Denmark\u202f*\n', '5,107\n', '5,295\n', '5,568\n'], ['\xa0Estonia\u202f*\n', '2,217\n', '2,368\n', '2,579\n'], ['\xa0Finland\u202f*\n', '4,222\n', '4,331\n', '4,578\n'], ['\xa0France\u202f*\n', '5,057\n', '5,154\n', '5,376\n'], ['\xa0Germany\u202f*\n', '6,011\n', '6,224\n', '6,646\n'], ['\xa0Greece\u202f*\n', '2,239\n', '2,266\n', '2,384\n'], ['\xa0Hungary\u202f*\n', '2,029\n', '2,150\n', '2,222\n'], ['\xa0Iceland\u202f*\n', '4,167\n', '4,420\n', '4,811\n'], ['\xa0Ireland\u202f*\n', '4,743\n', '4,912\n', '5,276\n'], ['\xa0Israel\u202f*\n', '2,715\n', '2,826\n', '2,932\n'], ['\xa0Italy\u202f*\n', '3,399\n', '3,485\n', '3,649\n'], ['\xa0Japan\u202f*\n', '4,393\n', '4,504\n', '4,823\n'], ['\xa0Latvia\u202f*\n', '1,680\n', '1,856\n', '1,973\n'], ['\xa0Lithuania\u202f*\n', '2,236\n', '2,385\n', '2,638\n'], ['\xa0Luxembourg\u202f*\n', '5,013\n', '5,216\n', '5,558\n'], ['\xa0Mexico\u202f*\n', '1,119\n', '1,145\n', '1,154\n'], ['\xa0Netherlands\u202f*\n', '5,264\n', '5,436\n', '5,765\n'], ['\xa0New Zealand\u202f*\n', '3,820\n', '4,025\n', '4,204\n'], ['\xa0Norway\u202f*\n', '6,075\n', '6,283\n', '6,647\n'], ['\xa0Poland\u202f*\n', '2,076\n', '2,114\n', '2,230\n'], ['\xa0Portugal\u202f*\n', '2,922\n', '3,097\n', '3,379\n'], ['\xa0Slovakia\u202f*\n', '2,048\n', '2,142\n', '2,354\n'], ['\xa0Slovenia\u202f*\n', '2,853\n', '3,042\n', '3,224\n'], ['\xa0South Korea\u202f*\n', '2,809\n', '3,085\n', '3,384\n'], ['\xa0Spain\u202f*\n', '3,322\n', '3,430\n', '3,616\n'], ['\xa0Sweden\u202f*\n', '5,318\n', '5,434\n', '5,782\n'], ['\xa0Switzerland\u202f*\n', '7,037\n', '7,280\n', '7,732\n'], ['\xa0Turkey\u202f*\n', '1,188\n', '1,224\n', '1,337\n'], ['\xa0United Kingdom\u202f*\n', '4,126\n', '4,290\n', '4,653\n'], ['\xa0United States\u202f*\n', '10,213\n', '10,637\n', '11,072\n']]
```

```
In [21]: df2=pd.DataFrame(rows,columns=headers)
df2
```

	Location	2017	2018	2019\n
<b>0</b>	None	None	None	None
<b>1</b>	Australia*\n	4,711\n	4,965\n	5,187\n
<b>2</b>	Austria*\n	5,360\n	5,538\n	5,851\n
<b>3</b>	Belgium*\n	5,014\n	5,103\n	5,428\n
<b>4</b>	Canada*\n	5,155\n	5,287\n	5,418\n
<b>5</b>	Chile*\n	2,030\n	2,126\n	2,159\n
<b>6</b>	Colombia*\n	1,156\n	1,201\n	1,213\n
<b>7</b>	Czech Republic*\n	2,891\n	3,171\n	3,428\n
<b>8</b>	Denmark*\n	5,107\n	5,295\n	5,568\n
<b>9</b>	Estonia*\n	2,217\n	2,368\n	2,579\n
<b>10</b>	Finland*\n	4,222\n	4,331\n	4,578\n

	Location	2017	2018	2019\n
11	France *\n	5,057\n	5,154\n	5,376\n
12	Germany *\n	6,011\n	6,224\n	6,646\n
13	Greece *\n	2,239\n	2,266\n	2,384\n
14	Hungary *\n	2,029\n	2,150\n	2,222\n
15	Iceland *\n	4,167\n	4,420\n	4,811\n
16	Ireland *\n	4,743\n	4,912\n	5,276\n
17	Israel *\n	2,715\n	2,826\n	2,932\n
18	Italy *\n	3,399\n	3,485\n	3,649\n
19	Japan *\n	4,393\n	4,504\n	4,823\n
20	Latvia *\n	1,680\n	1,856\n	1,973\n
21	Lithuania *\n	2,236\n	2,385\n	2,638\n
22	Luxembourg *\n	5,013\n	5,216\n	5,558\n
23	Mexico *\n	1,119\n	1,145\n	1,154\n
24	Netherlands *\n	5,264\n	5,436\n	5,765\n
25	New Zealand *\n	3,820\n	4,025\n	4,204\n
26	Norway *\n	6,075\n	6,283\n	6,647\n
27	Poland *\n	2,076\n	2,114\n	2,230\n
28	Portugal *\n	2,922\n	3,097\n	3,379\n
29	Slovakia *\n	2,048\n	2,142\n	2,354\n
30	Slovenia *\n	2,853\n	3,042\n	3,224\n
31	South Korea *\n	2,809\n	3,085\n	3,384\n
32	Spain *\n	3,322\n	3,430\n	3,616\n
33	Sweden *\n	5,318\n	5,434\n	5,782\n
34	Switzerland *\n	7,037\n	7,280\n	7,732\n
35	Turkey *\n	1,188\n	1,224\n	1,337\n
36	United Kingdom *\n	4,126\n	4,290\n	4,653\n

In [22]:

```
df2=preproc(df2)
df2
```

Out[22]:

	Location	2017	2018	2019
1	Australia	4711	4965	5187
2	Austria	5360	5538	5851
3	Belgium	5014	5103	5428
4	Canada	5155	5287	5418
5	Chile	2030	2126	2159
6	Colombia	1156	1201	1213
7	Czech Republic	2891	3171	3428
8	Denmark	5107	5295	5568
9	Estonia	2217	2368	2579
10	Finland	4222	4331	4578
11	France	5057	5154	5376
12	Germany	6011	6224	6646
13	Greece	2239	2266	2384
14	Hungary	2029	2150	2222
15	Iceland	4167	4420	4811
16	Ireland	4743	4912	5276
17	Israel	2715	2826	2932
18	Italy	3399	3485	3649
19	Japan	4393	4504	4823
20	Latvia	1680	1856	1973
21	Lithuania	2236	2385	2638
22	Luxembourg	5013	5216	5558

	Location	2017	2018	2019
23	Mexico	1119	1145	1154
24	Netherlands	5264	5436	5765
25	New Zealand	3820	4025	4204
26	Norway	6075	6283	6647
27	Poland	2076	2114	2230
28	Portugal	2922	3097	3379
29	Slovakia	2048	2142	2354
30	Slovenia	2853	3042	3224
31	South Korea	2809	3085	3384
32	Spain	3322	3430	3616
33	Sweden	5318	5434	5782
34	Switzerland	7037	7280	7732
35	Turkey	1188	1224	1337
36	United Kingdom	4126	4290	4653

```
In [23]: df2.rename(columns={'Location': 'Country'}, inplace=True)
df2
```

	Country	2017	2018	2019
1	Australia	4711	4965	5187
2	Austria	5360	5538	5851
3	Belgium	5014	5103	5428
4	Canada	5155	5287	5418
5	Chile	2030	2126	2159
6	Colombia	1156	1201	1213
7	Czech Republic	2891	3171	3428
8	Denmark	5107	5295	5568
9	Estonia	2217	2368	2579
10	Finland	4222	4331	4578
11	France	5057	5154	5376
12	Germany	6011	6224	6646
13	Greece	2239	2266	2384
14	Hungary	2029	2150	2222
15	Iceland	4167	4420	4811
16	Ireland	4743	4912	5276
17	Israel	2715	2826	2932
18	Italy	3399	3485	3649
19	Japan	4393	4504	4823
20	Latvia	1680	1856	1973
21	Lithuania	2236	2385	2638
22	Luxembourg	5013	5216	5558
23	Mexico	1119	1145	1154
24	Netherlands	5264	5436	5765
25	New Zealand	3820	4025	4204
26	Norway	6075	6283	6647
27	Poland	2076	2114	2230
28	Portugal	2922	3097	3379
29	Slovakia	2048	2142	2354
30	Slovenia	2853	3042	3224
31	South Korea	2809	3085	3384
32	Spain	3322	3430	3616
33	Sweden	5318	5434	5782
34	Switzerland	7037	7280	7732

```
Country 2017 2018 2019
35 Turkey 1188 1224 1337
36 United Kingdom 4126 4290 4653
```

```
In [24]: df2.isna().sum(axis=0)
```

```
Out[24]: Country 0
2017 0
2018 0
2019 0
dtype: int64
```

```
In [25]: df2.dtypes
```

```
Out[25]: Country object
2017 int64
2018 int64
2019 int64
dtype: object
```

```
In [26]: from IPython.display import IFrame
url='https://en.wikipedia.org/wiki/Healthcare_in_Europe'
IFrame(url, width=800, height=400)
```

```
Out[26]:
```

```
In [27]: url='https://en.wikipedia.org/wiki/List_of_countries_by_total_health_expenditure_per_capita'
IFrame(url, width=800, height=1200)
```

```
Out[27]:
```

After we have successfully gathered the data we can cross verify with the webpage data

---

## Merging two dataframes

```
In [28]:
```

```
#Life Expectancy and Expenditure per Capita
merged_df=pd.merge(df1, df2, how='left', on='Country')
merged_df
```

```
Out[28]:    WorldRank  EURank      Country  Life expectancy at birth (years)  2017  2018  2019
```

	WorldRank	EURank	Country	Life expectancyat birth (years)	2017	2018	2019
0	5.0	1.0	Spain		83.4	3322.0	3430.0
1	6.0	2.0	Italy		83.4	3399.0	3485.0
2	11.0	3.0	Sweden		82.7	5318.0	5434.0
3	12.0	4.0	France		82.5	5057.0	5154.0
4	13.0	5.0	Malta		82.4	NaN	NaN
5	16.0	6.0	Ireland		82.1	4743.0	4912.0
6	17.0	7.0	Netherlands		82.1	5264.0	5436.0
7	19.0	8.0	Luxembourg		82.1	5013.0	5216.0

In [29]:

```
#renaming for final dataframe columns
merged_df.rename(columns={'Life expectancyat birth (years)':'Life_Expect','2017':'Exp_2017','2018':'Exp_2018','2019':'Exp_2019'}
merged_df
```

Out[29]:

	WorldRank	EURank	Country	Life_Expect	Exp_2017	Exp_2018	Exp_2019
0	5.0	1.0	Spain	83.4	3322.0	3430.0	3616.0
1	6.0	2.0	Italy	83.4	3399.0	3485.0	3649.0
2	11.0	3.0	Sweden	82.7	5318.0	5434.0	5782.0
3	12.0	4.0	France	82.5	5057.0	5154.0	5376.0
4	13.0	5.0	Malta	82.4	NaN	NaN	NaN
5	16.0	6.0	Ireland	82.1	4743.0	4912.0	5276.0
6	17.0	7.0	Netherlands	82.1	5264.0	5436.0	5765.0
7	19.0	8.0	Luxembourg	82.1	5013.0	5216.0	5558.0
8	20.0	9.0	Greece	82.1	2239.0	2266.0	2384.0

In [30]:

```
merged_df.dtypes
```

Out[30]:

WorldRank	float64
EURank	float64
Country	object
Life_Expect	float64
Exp_2017	float64
Exp_2018	float64
Exp_2019	float64
dtype:	object

---

We have successfully seen how data can be scrapped from webpages using BeautifulSoup, we have structured the data, cleansed it and validated it from source.