

# 11 Markdown in Jupyter, HTML, regularni izrazi

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Današnje predavanje bo imelo dva do tri smotre.

- Osnovni je, da se naučimo pobirati podatke s spletnih strani, ki niso v osnovi namenjene temu, da bi z njih pobirali podatke. To je lahko relativno preprosto ali relativno nemogoče, saj lahko zahteva, da poganjamo JavaScript znotraj spletne strani, da jo poskušamo prepričati, da zahtevki prihajajo iz običajne rabe in ne od programa.
- Drugi je stranski: prejšnjič smo brali XML. HTML je nekoliko podoben, zato bomo ob branju HTML tudi malo utrjevali pristope, ki jih potrebujemo za XML.
- Tretji je splošnejši: mimogrede bomo spoznali regularne izraze, ki jih lahko uporabimo za branje poljubnega besedila. V HTML nam je to na srečo večinoma prihranjeno, ker zanj obstajajo boljše knjižnice. Vseeno pa je regularne izraze koristno poznati, saj bomo nanje naleteli marsikje - v neki obliki celo v Wordu.

## 0.1 Markdown

Markdown je preprost jezik, namenjen osnovnemu oblikovanju besedil: omogoča naštevanje, krepak in poševen tisk, citiranje, vstavljanje naslovov programske kode in slik ter spletne povezave. Uporabljamo ga povsod na spletu (in še kje drugod), kjer bi želeli nekoliko oblikovano besedilo. V markdownu so napisani tile zapiski, vse, kar objavljam na Učilnici, z njim lahko pišete komentarje na različne spletne strani.

Jezika se je trivialno naučiti: kar zapremo med zvezdice, je izpisano *poševno* (ker sem napisal **\*poševno\***), če sta zvezdici dve, pa **krepko** (ker sem napisal **\*\*krepko\*\***). Alineje zapišemo z minusi in se izpišejo

- tako.
- kot
- je treba,

če jih želimo oštevilčiti,

1. pa
2. jih
3. oštevilčimo.

Pred naslove damo en, dva, tri, štiri ali kolikor je treba znakov # (več ko jih je, manj pomemben je naslov).

Povezave zapišemo [tako, da v oglate oklepaje damo besedilo] (<https://ucilnica.fri.uni-lj.si>), v oklepajih pa povemo, kam povezava vodi.

Vse, kar damo v vzvratne narekovaje (*backtick*), se izpiše kot “koda”; zgoraj sem to uporabljal, da se je besedilo med zvezdicami ali v povezavi izpisalo z zvezdicami in oglatimi oklepaji, ne pa spremenilo v poševen in krepak tisk ali v povezavo.

Kdor hoče izvedeti več bo pogledal na [plonkec](#), vendar tudi tam ni kaj več, saj dosti več ne obstaja.

## 0.2 Jupyter

Besedilo znotraj teh zapiskov je napisano v markdownu - znotraj Jupyterovega notebooka. Uporabljam ga že vse leto, z neveliko uvoda na začetku. Po eni strani ga ni težko začeti uporabljati, po drugi pa zna biti frustrirajoč, kadar želiš kaj narediti drugače, kot hoče.

Za tako pomemben in vseprisoten projekt ima fascinantno zanič dokumentacijo za nekoga, ki ni ravno računalnikar. Na uradnih straneh je še najbolj uporabno poglavje [Network basics](#). Vse ostalo, kar sem našel, so bile strani na raznih “content farmih” in spletnih mestih, ki niso dovolj odprta, da bi nanje pošiljal študente.

Toliko o tem v zapiskih. Kdor hoče vedeti več, naj vpraša na predavanjih.

## 0.3 HTML

Spletne strani so zapisane v jeziku HTML. Ta je podoben XML, ki smo ga spoznali prejšnjich.

XML je splošnejši. XML služi zapisu in prenašanju poljubnih podatkov - od zapisov pretečenih ali prekolesarjenih poti v Stravi s standardiziranim formatom GPX do vektorskih slik v formatu SVG. Vsak od njih uporablja svoj specifičen nabor značk, ki jih zapisujemo v `<...>`. Vsak element je potrebno začeti in zaključiti (na primer `<track>` za začetek opisa poti in `</track>` za konec) in biti morajo pravilno gnezdeni. Če je znotraj elementa `<track>` element `<trkpoint>`, je potrebno slednjega zapreti pred prvim.

Tako kot sta GPX in SVG konkretni obliki XMLja, namenjeni zapisovanju poti in vektorskih slik, je tudi HTML oblika XMLja, namenjena opisovanju spletnih strani. Bistvena - in za na žal pomembna - razlika je v tem, da so bralniki za HTML bolj tolerantni glede zapiranja elementov. Če, na primer, nek element zapremo prezgodaj, preden smo zaprli notranje, bo bralnik kar sam od sebe zaprl tudi notranje. Če zapremo element, ki ga sploh nismo odprli, bo bralnik to kar ignoriral. XML mora imeti en sam korenski element, ki vsebuje vse ostale. HTML ga ima samo, če je lepo vzgojen. Če ni, bralnik pač skomigne z rameni in dokument vseeno normalno prebere. Tako so naredili zato, ker so bile v davnini spleta spletne strani pogosto natipkane ročno, kot HTML in tipkali so jih tudi ljudje, ki niti niso računalnikarji, zato smo se jih (računalnikarji) usmilili. Spletno stran je bilo vseeno možno pokazati in če je bila zaradi napak v uporabi značk videti čudno, jo je avtor pač popravil.

Posledično pa HTMLja ni tako preprosto brati s programom. Pravzaprav sta razloga dva.

- En je omenjeni: HTML je pogosto nepravilno oblikovan. To je bilo včasih mučno, danes imamo knjižnice, kot je Beautiful Soup, ki nas rešijo mukotrpnega dela in namesto nas poignorirajo napake in preberejo HTML v drevesno strukturo.
- Drugi problem je, da HTML v osnovi ni namenjen zapisovanju podatkov, temveč besedila. Če to besedilo vsebuje podatke, morda ni oblikovano tako, da bi jih bilo lahko izvleči.

### 0.3.1 Osnove HTML

Da bomo lahko iz HTML karkoli prebrali, moramo vsaj približno razumeti njegovo strukturo.

**Značke** Tule so osnovne značke (osnovne v smislu, da jih bomo potrebovali pri razbiranju podatkov, ne sestavljanju strani).

- `<p>` je odstavek, paragraph. HTML ignorira prazen prostor, vključno s praznimi vrsticami, zato je potrebno odstavke označiti s `P`.
- `<div>` in `<span>` sta enoti znotraj besedila. Kaj pomenita in kakšna je razlika med njima, je za nas nepomembno, omenjamo ju zato, ker bo tisto, kar iščemo, pogosto znotraj `DIV`-ov z določeno oznako.
- `<h1>`, `<h2>`, `<h3>` ... so naslov, podnaslov, podpodnaslov in tako naprej.
- `<a>` je hiperpovezava. Ta nas bo najbrž najbolj zanimala.
- `<img>` je slika.
- `<ul>` in `<ol>` sta oštevilčeni (ordered) in neoštevilčeni (unordered) seznam. Znotraj njiju bodo alineje, zapret v `<LI>`.

**Atributi** Elementi imajo attribute, ti bodo pri iskanju podatkov pomembni, ker ima stran lahko ogromno značk `DIV` ali `A`, nas pa zanimajo tiste, ki so označene z določenim atributom. Tule so najpomembnejši

- `class` določa oblikovanje elementov. Kako to počne, ni pomembno. Pomembno je tole: če imamo spletno stran z naslovi filmov, bodo vsi naslovi verjetno oblikovani enako - enaka pisava, oblika in tako naprej. Naslovi bodo morda v elementih `<div>` in vsi bodo imeli določen, na primer `<div class="movie-title" ...>` ali `<div class="title-of-the-movie" ...>` ali `<div class="ipc-metadata-list-summary-item__t">` ... dokler ne pogledamo, ne moremo vedeti. Če hočemo priti do naslovov filmov, torej poberemo vse `<div>`-e, imajo določen želeni razred. Slike s posterji filmov, ki jih vidimo zraven povezav, so mogoče `img` z razredom `ipc-image` (ampak samo na IMDB). Razredi so kot nekakšne spremenljivke, ki si jih sestavljalki strani izmislijo sami, mi pa jih lahko pogledamo.
- `id` je malo podoben, vendar popolnoma drugačen. :) `Id`-ji so enkratni: na vsaki strani lahko obstaja le en element s takšnim `id`-jem. `Id`-ji lahko določajo tudi obliko, vendar pogosto služijo tudi temu, da program, ki teče znotraj strani, prebira ali spreminja `id`-je. Z `id`-je je lahko označen kak naslov strani (ki morda vsebuje podatek, ki ga želimo prebrati). Primer - če smo ravno na IMDB, je `imdbHeader`, s katerim je označena vrstica na vrhu strani.
- `href` je atribut značke `a` (in še nekaterih, ki nas ne zanimajo). Atribut `href` vsebuje URL, na katerega kaže povezava. To nam bo očitno prišlo prav, če bomo hoteli napisati program, ki prebere vse povezave na določene podstrani in prebere, na kar kažejo te povezave.
- `name` prav tako najdemo ob znački `a`. Ta ne pomeni povezave na spletno stran, temveč označi mesto znotraj te spletne strani, tako da se lahko druge strani sklicujejo nanj. Več o tem spodaj.
- `src` je atribut elementa `img`. Vsebuje povezavo do slike. Če v Pythonu z `urlopen` odpremo (in potem z `read` preberemo) url, zapisan v `href` bomo dobili bajte (upam, da se še spomnimo - to je tisto, kar je podobno nizu, vendar ni sestavljeno iz znakov temveč iz števil), ki jih lahko, recimo, shranimo v datoteko z ustrezno končnico, pa imamo sliko.

Tako atributov kot značk je še na stotine in stotine. Tule smo jih spoznali toliko, da bo dovolj za nekaj osnovnih primerov in vaj.

**URLji** Povedati moramo še nekaj o URLjih. Ti so, podobno kot poti do datotek, lahko absolutni ali relativni in še hujše.

- Če se URL začne s `http://` ali `https://`, vodi na povsem drug strežnik. (Ali na istega, le s predolgim URL-jem.) Sledil bo seveda naslov strežnika, na primer `ucilnica.fri.uni-lj.si`.
- Če se URL začne s `ftp://` ali `mailto://` ali `kajdrugega://`, potem ne vodi na spletno stran temveč na kakšen drugačen strežnik ali kam čisto drugam. Povezava `mailto://`, recimo, povzroči odpiranje programa za pošiljanje pošte.
- Absolutne poti: če se URL začne z `/`, gre, podobno kot pri datotekah za absolutno pot, seveda znotraj obstoječega strežnika. Če na strani `http://primer.com/primer/uporaba.html` naletimo na URL `/nekaj/drugega.html`, bo vodil na stran `http://primer.com/nekaj/drugega.html`. Strežnik, torej, ostane isti, pot pa se zamenja z novo.
- Relativne poti: če se URL ne začne z `/` (ali celo `http://`), predstavlja relativno pot. Če na strani `http://primer.com/primer/uporaba.html` naletimo na URL `/nekaj/drugega.html`, ta *najbrž* vodi na `http://primer.com/primer/nekaj/drugega.html`. Povezava je torej *najbrž* relativna glede na pot, na kateri je trenutna stran. Zakaj *najbrž*? Zato ker lahko spletna stran določi drugače in sicer tako, da znotraj elementa `body` doda element `<base href="neka-druga-pot" />`.
- Naslovi znotraj strani. Če spletna stran `http://primer.com/primer/uporaba.html` vsebuje `<a name="pomembnomesto">`, bo povezava `http://primer.com/primer/uporaba.html#pomembnomesto` vodila na to stran in to na to konkretno mesto - brskalnik bo sam poskrolal stran do tja. Del za `#` lahko dodamo k absolutnim ali relativnim potem, ali celo brez njih. Če znotraj strani postavimo URL `#pomembnomesto`, klik na ta URL ne bo vodil na drugo stran, temveč bo brskalnik le oddrsel na to mesto.

Kot za vse v teh zapiskih, velja tudi za URL: spletni razvijalci niso brez razloga med najboljše plačanimi programerji. Tule zgolj približno (in mestoma narobe) praskamo po površju nečesa, kar zahteva leta treninga.

### 0.3.2 Branje HTML

Za branje HTML bomo uporabili knjižnico Beautiful Soup. Te ne dobimo s Pythonom, temveč si jo moramo namestiti dodatno.

V Jupytru to najlažje storimo tako, da vtipkamo

```
%pip install bs4
```

in po potrebi ponovno poženemo Python (Kernel / Restart).

Zdaj bomo s strani projekta Gutenberg prebrali imena vseh avtorjev, katerih priimek se začne s črko B. Najdemo jih na strani `https://www.gutenberg.org/browse/authors/b`.

```
[1]: from urllib.request import urlopen

html = urlopen("https://www.gutenberg.org/browse/authors/b").read()
```

Kot se, upam, spomnimo, smo dobili bajte - pogledjmo začetek.

```
[2]: html[:100]
```

```
[2]: b'<!DOCTYPE html>\n<html class="client-nojs" lang="en" dir="ltr">\n<head>\n<meta charset="UTF-8"/>\n\n<tit'
```

Videti je kar normalno, kot ASCII, vendar kasneje vsebuje vse mogoče, od portugalski obvijuganih a-jev, pa do kitajščine, zato ga moramo odkodirati kot UTF. (Mimogrede, tudi sam, že v zgoraj napisanem, pove, da je njegov “charset” enak “UTF-8”.)

```
[3]: html = html.decode("utf-8")
```

```
[4]: html[:100]
```

```
[4]: '<!DOCTYPE html>\n<html class="client-nojs" lang="en" dir="ltr">\n<head>\n<meta charset="UTF-8"/>\n\n<tit'
```

**Pozor:** Projekt Gutenberg je spremenil svoje strani ravno dan, dva po pripravi teh zapiskov. Zato bomo tule prebrali stran, kakršna je bila v času zapiskov in jo imamo shranjeno v datoteki.

```
[5]: html = open("authors-b.html").read()
```

In zdaj preberemo HTML v drevo značk, hvala BeautifulSoup.

```
[6]: from bs4 import BeautifulSoup

soup = BeautifulSoup(html)
```

Pa zdaj? Zdaj je potrebno zares pogledati spletno stran, njeno kodo in ugotoviti, v kakšnih značkah so zapisana imena avtorjev.

Gremo na stran in pritisnemo Ctrl-Alt-I na Windows oz. Cmd-Alt-I na macOS; to deluje v Chromu, Firefoxu in Safariju, kdor uporablja kaj, česar nisem poskusil, pa naj poskuša sam. V spodnjem (ali desnem, odvisno od nastavitve) delu okna se pojavi drevo s strukturo HTML, ki ga gledamo v gornjem (ali levem) delu.

Če se zdaj z miško vozimo po elementih drevesa v spodnjem delu, nam osvetljuje pripadajoče elemente v gornjem. In obratno: če izberemo tisti kvadrata s puščico, ki je v vrstici med zgornjim in spodnjim delom okna, lahko klikamo na elemente v gornjem delu in v spodnjem se pokaže ustrezni element drevesa. Če, recimo, kliknem Charlesa Babbagea, se zgodi tole.

Očitno so imena avtorjev znotraj H2, torej kot podnaslovi. Vsebujejo dve znački **a**. Prva nastavi povezavo znotraj strani, **name**, na neko kodo - za Babbagea je to **a556**. To pomeni, da nas povezuje na stran <https://www.gutenberg.org/browse/authors/b#a556> (URL te strani z dodatnim **#556**) namesto na začetek strani postavi na Babbagea. Znotraj te povezave je zapisano njegovo ime in letnici rojstva in smrti. Sledi še en element **a**, ki vsebuje besedilo “¶”. povezava pa kaže na <https://www.gutenberg.org/browse/authors/b#a556>. Če kliknemo ta ¶, se stran ne spremeni, spremeni pa se naslov v brskalniku, tako da ga lahko skopiramo ali shranimo. (Zaradi prvega **a** je tudi ime videti kot povezava, vendar ne naredi ničesar. Take imam res rad.)

Zdaj najbrž vemo, kje poiskati imena avtorjev: poskusili bomo kar vse elemente **a**, ki vsebujejo **name**. Zgodi se lahko troje

- poleg imen avtorjev dobimo še kakšno drugo šaro s strani,

- ne dobimo vseh imen avtorjev
- dobimo vsa imena avtorjev in nič drugega kot vsa imena avtorjev.

Seveda je v igri tudi varianta 4, po kateri sicer ne dobimo vseh imen avtorjev, pač pa dobimo dodatno šaro.

Če se bo zgodilo prvo, bomo razmislili, kako biti bolj specifični. Morda bomo rekli, da mora biti ta `a` znotraj `h2`. Če se bo zgodilo drugo, bomo morali pregledati manjkajoče avtorje in razmisliti, kaj je specifičnega zanje, kako jih najti in ali bi lahko na enak način našli tudi druge.

Poslušajmo latince, ki so vedeli povedati, da *audentes fortuna iuvat*. `soup` ima metodo `find_all`, ki kot argument prejme ime elementa in vrne vse elemente s tem imenom.

```
[7]: soup.find_all("a")
```

```
[7]: [<a class="no-hover" href="/" id="main_logo">
  
</a>,
  <a href="/about/">About
    <span class="drop-icon"> </span>
</a>,
  <a href="/about/">About Project Gutenberg</a>,
  <a href="/policy/collection_development.html">Collection Development</a>,
  <a href="/about/contact_information.html">Contact Us</a>,
  <a href="/about/background/">History & Philosophy</a>,
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  <a href="/help/errata.html">Errata, Fixes and Bug Reports</a>,
  <a href="/help/file_formats.html">File Formats</a>,
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  <a href="/help/public_domain_ebook_submission.html">Public Domain eBook
Submission</a>,
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  <a href="/help/mobile.html">Tablets, Phones and eReaders</a>
```

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[Esperanto](/browse/languages/eo "Esperanto (139)"),  
[Finnish](/browse/languages/fi "Finnish (2694)"),  
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[Latin](/browse/languages/la "Latin (135)"),  
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[Swedish](/browse/languages/sv "Swedish (228)"),  
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[Afrikaans](/browse/languages/af "Afrikaans (13)"),  
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[Bulgarian](/browse/languages/bg "Bulgarian (6)"),  
[Caló](/browse/languages/rmr "Caló (1)"),  
[Catalan](/browse/languages/ca "Catalan (34)"),  
[Cebuano](/browse/languages/ceb "Cebuano (3)"),  
[Czech](/browse/languages/cs "Czech (12)"),  
[Estonian](/browse/languages/et "Estonian (1)"),  
[Farsi](/browse/languages/fa "Farsi (1)"),  
[Frisian](/browse/languages/fy "Frisian (4)"),  
[Friulian](/browse/languages/fur "Friulian (7)"),  
[Gaelic,  
Scottish](/browse/languages/gla "Gaelic, Scottish (2)"),  
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\\\\[>Irish</a>,  
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\\\\\\[>Kashubian</a>,  
\\\\\\\[>Khasi</a>,  
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[zh.wikipedia](http://zh.wikipedia.org/wiki/%E7%99%BD%E8%A1%8C%E7%B0%A1)  
[>](/ebooks/24051) [<](/ebooks/24051),  
Baiyundaoren,  
[¶](#a31326 "Link to this author"),  
[>](/ebooks/25422) [<](/ebooks/25422),  
[Beniczyné Bajza, Lenke, 1839-1905](#a36169),  
Baker, A. R.,  
[¶](#a47093 "Link to this author"),  
[The Cleveland Medical Gazette, Vol. 1, No. 3, January](/ebooks/52874)

```

1886</a>,
<a href="/ebooks/52983">The Cleveland Medical Gazette, Vol. 1, No. 4, February
1886</a>,
<a href="/ebooks/53325">The Cleveland Medical Gazette, Vol. 1, No. 5, March
1886</a>,
<a name="a34993">Baker, Arthur Latham, 1853-1934</a>,
<a href="#a34993" title="Link to this author">¶</a>,
<a href="/ebooks/31076">Elliptic Functions: An Elementary Text-Book for
Students of Mathematics</a>,
<a name="a47592">Baker, Benson</a>,
<a href="#a47592" title="Link to this author">¶</a>,
<a href="/ebooks/53877">The Sanitary Condition of the Poor in Relation to
Disease, Poverty, and Crime
<br/>With an appendix on the control and prevention of infectious diseases</a>,
<a name="a25535">Baker, B. Granville (Bernard Granville), 1870-1957</a>,
<a href="#a25535" title="Link to this author">¶</a>,
...]
```

Kar takoj posvarimo: župa se obnaša nenavadno. Če se zatipkamo pri imenu metode, vrne `None` namesto `AttributeError`.

```
[8]: print(soup.tralala)
```

None

To počne zato, ker nam `soup.tralala` ali `soup.kajdruega` vrne (prvo) značko `tralala` oziroma `kajdruega` v dokumentu. Če ne obstaja (točneje: ker ne obstaja), pač vrne `None` namesto napake. To nas tepe, če, recimo, pozabimo `_` v `find_all`.

```
[9]: soup.findall("a")
```

```

-----
TypeError                                Traceback (most recent call last)
Cell In[9], line 1
----> 1 soup.findall("a")

TypeError: 'NoneType' object is not callable

```

`soup.findall` je `None`, zato ga ni mogoče poklicati niti z `"a"` niti s kakimi drugimi argumenti. Oziroma sploh.

No, če smo se že naučili, kako poceni priti do elementa `a`, pograbimo kar prvega, ki pride pod roko.

```
[10]: link = soup.a
```

Kako izvemo, da se v njem ne skriva ime avtorja? Kot smo rekli: elementi z imeni avtorjev. Vse elementi župe imajo attribute `attrs`, ki vsebuje vse attribute. Del HTMLja, ki vsebuje naš `link`, je

```
[11]: link
```

```
[11]: <a class="no-hover" href="/" id="main_logo">
      
      </a>
```

Atributi so `class`, `href` in `id`. Res je:

```
[12]: link.attrs
```

```
[12]: {'id': 'main_logo', 'href': '/', 'class': ['no-hover']}
```

(Atribut `class` je seznam, ker lahko element pripada več razredom. Mimogrede tu vidimo še en primer uporabe `id`-ja: označuje `main_logo`. Najbrž zgolj zaradi oblikovanja: v pravilih za oblikovanje strani so določili, kako naj bo oblikovan element z `id`-jem `main_logo`, namesto elementi v razredu `main_logo`; tako so storili zaradi higiene, saj stvari, ki so edinstvene, niso “razred zase”.)

Zdaj znamo poiskati elemente z avtorji: v slovarju `attrs` morajo imeti `name`. Poiščimo prvega, da se bomo lahko igrali z njim in ugotovili, kako izvleči ime avtorja.

```
[13]: for link in soup.find_all("a"):
      if "name" in link.attrs:
          break
```

```
[14]: link
```

```
[14]: <a name="a32541">Baader, Bernhard</a>
```

Da, vidite je, da smo ujeli človeka. Najbrž res prvega po abecedi med vsemi, na a. :)

Elementi imajo atributa `string` in `strings`.

```
[15]: link.string
```

```
[15]: 'Baader, Bernhard'
```

```
[16]: link.strings
```

```
[16]: <generator object Tag._all_strings at 0x11412e540>
```

Drugi je videti manj privlačno. :)

Pripravimo slovar, katerega ključi bodo avtorji, vrednosti njihove notranje povezave na strani.

```
[17]: authors = {}
      for link in soup.find_all("a"):
          if "name" in link.attrs:
              authors[link.string] = link.attrs["name"]

      authors
```



[17]: {'Baader, Bernhard': 'a32541',  
 'Baadsgaard, Anna, 1865-1954': 'a52090',  
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 'Babbitt, Ellen C.': 'a2498',  
 'Babbitt, George Franklin, 1848-1926': 'a56365',  
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 'Babbitt, Irving, 1865-1933': 'a45766',  
 'Babbitt, Katharine': 'a42830',  
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 'Babcock, Elizabeth Jones, 1887-1963': 'a35898',  
 'Babcock, Kendric Charles, 1864-1932': 'a42489',  
 'Babcock, Retta': 'a7693',  
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 'Bacon, Roger, 1214?-1294': 'a49923',  
 'Bacon, Thomas Rutherford': 'a40959',  
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 1857-1941': 'a2144',  
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...}
```

Odlično: dobili smo samo avtorje in, če na hitro pogledamo, so najbrž vsi.

Ker bi bilo s tem slovarjem zdaj lepo nekaj narediti, ga shranimo v Markdown. :) Ta bo vseboval same alineje: vsaka bo ime avtorja in bo delovala kot povezava na stran avtorjev na B, konkretno na točno tega človeka znotraj strani.

```
[18]: f = open("avtorji-na-b.md", "w")
url = "https://www.gutenberg.org/browse/authors/b"
for auth, aname in authors.items():
    f.write(f"- [{auth}]({url}#{aname})\n")
f.close()
```

Kam s to datoteko? Uporabimo jo pač kje, kjer sprejemajo Markdown. Lahko, recimo, skopiramo nekaj prvih vrstic sem, v celico notebooka.

- [Baader, Bernhard](#)
- [Baadsgaard, Anna, 1865-1954](#)
- [Baarslag, C.](#)
- [Bååth, A. U. \(Albert Ulrik\), 1853-1912](#)
- [Babbage, Charles, 1791-1871](#)
- [Babbitt, Ellen C.](#)
- [Babbitt, George Franklin, 1848-1926](#)

In potem kliknemo povezavo, da vidimo, ali res deluje.

### 0.3.3 Malo preprostejše iskanje

Koda, s katero smo iskali elemente `a`, je bila brez potrebe prezapletena. `find_all` sprejema še več argumentov; med drugim lahko zahtevamo, da ima element določen atribut.

Takole dobimo vse `a`-je, ki imajo določen `id`:

```
[19]: soup.find_all("a", id=True)
```

```
[19]: [<a class="no-hover" href="/" id="main_logo">
      
      </a>]
```

Slučajno je le eden. Takole pa bi dobili a, katerega id je enak main\_logo.

```
[20]: soup.find_all("a", id="main_logo")
```

```
[20]: [<a class="no-hover" href="/" id="main_logo">
      
      </a>]
```

V resnici nas ne briga id. Najti želimo tiste, ki imajo določen name.

```
[21]: soup.find_all("a", name=True)
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[21], line 1
----> 1 soup.find_all("a", name=True)

TypeError: Tag.find_all() got multiple values for argument 'name'
```

Zato sem kot primer uporabil ne prav smiselni id. Problem je v tem, da je name ravno ime prvega argumenta, tistega, ki smo mu dali vrednost a. Python se zato razjezi, da vrednosti argumenta name ne smemo nastaviti dvakrat, enkrat na "a" in potem še na True.

Podobno je s class.

```
[22]: soup.find_all("a", class="no-hover")
```

```
Cell In[22], line 1
      soup.find_all("a", class="no-hover")
      ^
SyntaxError: invalid syntax
```

Beseda class je rezervirana in ne more biti ime spremenljivke ali argumenta. Kadar želimo povpraševati po name ali class, jih moramo podati s slovarjem.

```
[23]: soup.find_all("a", {"name": True})
```

```
[23]: [<a name="a32541">Baader, Bernhard</a>,
      <a name="a52090">Baadsgaard, Anna, 1865-1954</a>,
      <a name="a26759">Baarslag, C.</a>,
```

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 <a name="a56365">Babbitt, George Franklin, 1848-1926</a>,  
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 <a name="a45766">Babbitt, Irving, 1865-1933</a>,  
 <a name="a42830">Babbitt, Katharine</a>,  
 <a name="a9252">Babcock, Bernie, 1868-1962</a>,  
 <a name="a9811">Babcock, Charles Almanzo, 1847-1922</a>,  
 <a name="a44576">Babcock, Edwina Stanton</a>,  
 <a name="a35898">Babcock, Elizabeth Jones, 1887-1963</a>,  
 <a name="a42489">Babcock, Kendric Charles, 1864-1932</a>,  
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 <a name="a49911">Babcock, Sidney, 1797?-1884</a>,  
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 <a name="a53184">Babcock, William Henry, 1849-1922</a>,  
 <a name="a46000">Babelon, Ernest, 1854-1924</a>,  
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 <a name="a42588">Babillotte, Arthur, 1887-1916</a>,  
 <a name="a33233">Babinet, M. (Jacques), 1794-1872</a>,  
 <a name="a710">Babington, B. G. (Benjamin Guy), 1794-1866</a>,  
 <a name="a40766">Babits, Mih  ly, 1883-1941</a>,  
 <a name="a24754">Babson, Roger Ward, 1875-1967</a>,  
 <a name="a42838">Babur, Emperor of Hindustan, 1483-1530</a>,  
 <a name="a46034">Bacchi della Lega, Alberto, 1848-1924</a>,  
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 <a name="a26843">Bachaumont, Fran  ois le Coigneux de, 1624-1702</a>,  
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 <a name="a36468">Bachynskyi, Iuliian, 1870-1940</a>,  
 <a name="a50426">Back, E. A. (Ernest Adna), 1880-1959</a>,  
 <a name="a38887">Backscheider, Paula R.</a>,  
 <a name="a46590">B        , Edvard, 1841-1886</a>,  
 <a name="a52647">Backus, Mary</a>,  
 <a name="a45515">B        , J.</a>,  
 <a name="a7826">Bacon, Albion Fellows, 1865-1933</a>,  
 <a name="a35854">Bacon, Alice Mabel, 1858-1918</a>,  
 <a name="a7539">Bacon, Anne Cooke, Lady, 1528?-1610</a>,  
 <a name="a39945">Bacon, Benjamin Wisner, 1860-1932</a>,  
 <a name="a56444">Bacon, David Francis, 1813-1865</a>,  
 <a name="a2389">Bacon, Delia Salter, 1811-1859</a>,



<a name="a49975">Bacon, Edward Denny, Sir, 1860-1938</a>,  
 <a name="a5195">Bacon, Edwin M. (Edwin Monroe), 1844-1916</a>,  
 <a name="a296">Bacon, Francis, 1561-1626</a>,  
 <a name="a36932">Bacon, Frank, 1864-1922</a>,  
 <a name="a39257">Bacon, George B. (George Blagden), 1836-1876</a>,  
 <a name="a48048">Bacon, Gertrude, 1874-1949</a>,  
 <a name="a43442">Bacon, G. W. (George Washington), 1830-1921</a>,  
 <a name="a43515">Bacon, Helen E. (Helen Estelle), 1860-</a>,  
 <a name="a35660">Bacon, H. L.</a>,  
 <a name="a449">Bacon, John M. (John Mackenzie), 1846-1904</a>,  
 <a name="a9246">Bacon, Josephine Daskam, 1876-1961</a>,  
 <a name="a1946">Bacon, Leonard, 1887-1954</a>,  
 <a name="a232">Bacon, Leonard Woolsey, 1830-1907</a>,  
 <a name="a55488">Bacon, Mary Ann (Book editor)</a>,  
 <a name="a36751">Bacon, Mary Applewhite</a>,  
 <a name="a2265">Bacon, Mary Schell Hoke, 1870-1934</a>,  
 <a name="a34368">Bacon, Peggy, 1895-1987</a>,  
 <a name="a33629">Bacon, Robert, 1860-1919</a>,  
 <a name="a49923">Bacon, Roger, 1214?-1294</a>,  
 <a name="a40959">Bacon, Thomas Rutherford</a>,  
 <a name="a28420">Badcock, John, active 1816-1830</a>,  
 <a name="a6089">Baden, Frances Henshaw, -1911</a>,  
 <a name="a33619">Baden-Powell, Agnes, 1858-1945</a>,  
 <a name="a4670">Baden-Powell, B. H. (Baden Henry), 1841-1901</a>,  
 <a name="a2144">Baden-Powell of Gilwell, Robert Stephenson Smyth Baden-Powell,  
 Baron, 1857-1941</a>,  
 <a name="a6350">Bader, Clarisse, 1840-1902</a>,  
 <a name="a50403">Bader, Robert N.</a>,  
 <a name="a34290">Badè, William Frederic, 1871-1936</a>,  
 <a name="a46335">Bade, William L., 1928-2005</a>,  
 <a name="a47784">Badger, George Percy, 1815-1888</a>,  
 <a name="a413">Badger, Jos. E. (Joseph Edward), 1848-1909</a>,  
 <a name="a50180">Badham, David, 1806-1857</a>,  
 <a name="a37555">Badlam, Anna B.</a>,  
 <a name="a5818">Baekelmans, Lode, 1879-1965</a>,  
 <a name="a46683">Baena, Nuno, 1865-1922</a>,  
 <a name="a4824">Baerlein, Henry, 1875-1960</a>,  
 <a name="a55472">Baeta Neves, Lourenço, 1876-1948</a>,  
 <a name="a45180">Bagar, Robert C., 1899-1957</a>,  
 <a name="a52085">Bagby, George William, 1828-1883</a>,  
 <a name="a1461">Bagehot, Walter, 1826-1877</a>,  
 <a name="a33724">Baggally, W. W. (William Wortley)</a>,  
 <a name="a32408">Bagg, Helen</a>,  
 <a name="a54073">Bagg, Lyman Hotchkiss, 1846-1911</a>,  
 <a name="a5901">Baggs, Charles Michael, 1806-1845</a>,  
 <a name="a45296">Bagley, Clarence, 1843-1932</a>,  
 <a name="a7070">Bagley, William C. (William Chandler), 1874-1946</a>,

<a name="a3229">Bagnold, Enid, 1889-1981</a>,  
 <a name="a42680">Bagnyon, Jehan, 1412-</a>,  
 <a name="a47489">Bagot, A. G.</a>,  
 <a name="a43906">Bagot, Richard, 1860-1921</a>,  
 <a name="a51850">Bagshaw, Samuel</a>,  
 <a name="a48364">Baguenault de Puchesse, Gustave, comte, 1843-1922</a>,  
 <a name="a41492">Bagwell, Richard, 1840-1918</a>,  
 <a name="a8579">Bahá'í International Community</a>,  
 <a name="a8576">Baha'i World Centre</a>,  
 <a name="a6767">Bahá'u'lláh, 1817-1892</a>,  
 <a name="a37810">Bahíyyih, Khánúm</a>,  
 <a name="a48060">Bahlmann, Paul, 1857-1937</a>,  
 <a name="a43880">Bahr, Hermann, 1863-1934</a>,  
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 <a name="a25551">Baikie, Constance N.</a>,  
 <a name="a8592">Baikie, James, 1866-1931</a>,  
 <a name="a51867">Bailey, Alfred M. (Alfred Marshall), 1894-1978</a>,  
 <a name="a39435">Bailey, Arthur Low, 1867-</a>,  
 <a name="a1842">Bailey, Arthur Scott, 1877-1949</a>,  
 <a name="a40747">Bailey, Bernadine, 1901-1995</a>,  
 <a name="a8801">Bailey, Carolyn Sherwin, 1875-1961</a>,  
 <a name="a8114">Bailey, Cyril, 1871-1957</a>,  
 <a name="a36387">Bailey, Florence Merriam, 1863-1948</a>,  
 <a name="a50981">Bailey, Fred. D.</a>,  
 <a name="a3131">Bailey, H. C. (Henry Christopher), 1878-1961</a>,  
 <a name="a39499">Bailey, Henry Turner, 1865-1931</a>,  
 <a name="a35942">Bailey, James Blake</a>,  
 <a name="a37943">Bailey, James H. (James Henry), 1919-</a>,  
 <a name="a49907">Bailey, James Napier</a>,  
 <a name="a25233">Bailey, John Cann, 1864-1931</a>,  
 <a name="a3089">Bailey, L. H. (Liberty Hyde), 1858-1954</a>,  
 <a name="a51059">Bailey, Marian Elizabeth</a>,  
 <a name="a36641">Bailey, N. (Nathan), -1742</a>,  
 <a name="a33796">Bailey, Roy Rutherford</a>,  
 <a name="a6704">Bailey, Temple, 1869-1953</a>,  
 <a name="a50797">Bailey, Thomas, 1785-1856</a>,  
 <a name="a39716">Bailey, Vernon Howe, 1874-1953</a>,  
 <a name="a39417">Bailey, Washington, 1831-</a>,  
 <a name="a25435">Bailey, William Francis, 1861-</a>,  
 <a name="a42546">Bailhache, Clement</a>,  
 <a name="a41212">Baillie, Frederick David</a>,  
 <a name="a42216">Baillie-Grohman, F. (Florence)</a>,  
 <a name="a42215">Baillie-Grohman, William A. (William Adolph), 1851-1921</a>,  
 <a name="a5598">Baillie, Joanna, 1762-1851</a>,  
 <a name="a40806">Baillie, Marianne, 1795?-1831</a>,  
 <a name="a47397">Baillot, A. (Amédée)</a>,  
 <a name="a6557">Bailly, C. (Charles), 1800-1862</a>,

<a name="a40502">Baily, H. Lavinia, (Hannah Lavinia), 1837-1921</a>,  
 <a name="a26548">Baily, Peter</a>,  
 <a name="a33344">Baily, Waldron, 1871-1953</a>,  
 <a name="a4709">Bain, Alexander, 1818-1903</a>,  
 <a name="a36523">Baine, Rodney M.</a>,  
 <a name="a36331">Baines, Thomas, 1806-1881</a>,  
 <a name="a43792">Baines, Thomas, 1820-1875</a>,  
 <a name="a31868">Baines, William, 1899-1922</a>,  
 <a name="a1264">Baines, W. P. (William Peter), 1878-</a>,  
 <a name="a3998">Bain, F. W. (Francis William), 1863-1940</a>,  
 <a name="a6975">Bain, George Washington, 1840-</a>,  
 <a name="a49605">Bain, George W. (George William), 1901-</a>,  
 <a name="a5096">Bain, R. Nisbet (Robert Nisbet), 1854-1909</a>,  
 <a name="a52467">Bainville, Jacques, 1879-1936</a>,  
 <a name="a55025">Baird, Edwin, 1886-1957</a>,  
 <a name="a37582">Baird, Frank</a>,  
 <a name="a55702">Baird, George Husband, 1761-1840</a>,  
 <a name="a48229">Baird, G. H.</a>,  
 <a name="a25526">Baird, Henry Martyn, 1832-1906</a>,  
 <a name="a52746">Baird, James B.</a>,  
 <a name="a31884">Baird, Jean K. (Jean Katherine), 1872-1918</a>,  
 <a name="a47114">Baird, Samuel J. (Samuel John), 1817-1893</a>,  
 <a name="a47742">Baird, Spencer Fullerton, 1823-1887</a>,  
 <a name="a53382">Baird, William, F.S.A. Scot.</a>,  
 <a name="a42226">Baird, William, Vicar of Homerton, Middlesex</a>,  
 <a name="a3894">Bairnsfather, Bruce, 1887-1959</a>,  
 <a name="a26200">Bai, Xingjian, 776-826</a>,  
 <a name="a31326">Baiyundaoren</a>,  
 <a name="a47093">Baker, A. R.</a>,  
 <a name="a34993">Baker, Arthur Latham, 1853-1934</a>,  
 <a name="a47592">Baker, Benson</a>,  
 <a name="a25535">Baker, B. Granville (Bernard Granville), 1870-1957</a>,  
 <a name="a51651">Baker, Charles A.</a>,  
 <a name="a24918">Baker, Charles Whiting, 1865-1941</a>,  
 <a name="a37036">Baker, Cornelia, 1855-1930</a>,  
 <a name="a50541">Baker, Daniel W.</a>,  
 <a name="a43676">Baker, Elizabeth, 1876-1962</a>,  
 <a name="a2407">Baker, Emilie K. (Emilie Kip)</a>,  
 <a name="a47203">Baker, Ernest A. (Ernest Albert), 1869-1941</a>,  
 <a name="a50602">Baker, F. Nolan</a>,  
 <a name="a50163">Baker, Francis A. (Francis Aloysius), 1820-1865</a>,  
 <a name="a6660">Baker, Franklin T. (Franklin Thomas), 1864-1949</a>,  
 <a name="a6795">Baker, George Augustus, 1849-1906</a>,  
 <a name="a44486">Baker, George M. (George Melville), 1832-1890</a>,  
 <a name="a38362">Baker, George Pierce, 1866-1935</a>,  
 <a name="a9826">Baker, Henry E. (Henry Edwin), 1859-</a>,  
 <a name="a45557">Baker, Ida Strawn, 1876-</a>,

<a name="a38826">Baker, I. N. (Isaac Newton), 1838-</a>,  
 <a name="a47616">Baker, James L. (James Loring)</a>,  
 <a name="a52974">Baker, Joseph B.</a>,  
 <a name="a52702">Baker, Josephine Turck, 1873-1942</a>,  
 <a name="a6894">Baker, Karle Wilson, 1878-1960</a>,  
 <a name="a39039">Baker, Katharine</a>,  
 <a name="a44553">Baker, La Reine Helen McKenzie, 1882-</a>,  
 <a name="a35662">Baker, Olaf</a>,  
 <a name="a37309">Baker, Ray Stannard, 1870-1946</a>,  
 <a name="a53084">Baker, R. G. (Robert George), 1788-1878</a>,  
 <a name="a34893">Baker, Rollin H. (Rollin Harold), 1916-2007</a>,  
 <a name="a796">Baker, Samuel White, Sir, 1821-1893</a>,  
 <a name="a31338">Baker, Sarah S. (Sarah Schoonmaker), 1824-1906</a>,  
 <a name="a26779">Baker, Sheridan Warner, 1918-</a>,  
 <a name="a35473">Baker, Theodore, 1851-1934</a>,  
 <a name="a51176">Baker, Thomas, 1819-</a>,  
 <a name="a5535">Baker, Thomas, active 1700-1709</a>,  
 <a name="a53268">Baker, Virginia</a>,  
 <a name="a45229">Baker, Wallace E.</a>,  
 <a name="a45556">Baker, Walter Davis</a>,  
 <a name="a2092">Baker, Willard F.</a>,  
 <a name="a34341">Baker, William Jay</a>,  
 <a name="a25849">Bakewell, Esther</a>,  
 <a name="a43112">Bakewell, Frederick C. (Frederick Collier), 1800-1869</a>,  
 <a name="a53091">Baksay, Sándor, 1832-1915</a>,  
 <a name="a49470">Bakst, Léon, 1866-1924</a>,  
 <a name="a9485">Bakunin, Mikhail Aleksandrovich, 1814-1876</a>,  
 <a name="a6106">Balagtas, Francisco, 1788-1862</a>,  
 <a name="a46217">Balassa, Bálint, báró, 1554-1594</a>,  
 <a name="a46394">Balázs, Alexander, 1830-1887</a>,  
 <a name="a8668">Balázs, Béla, 1884-1949</a>,  
 <a name="a53830">Balázs, Sándor, 1830-1887</a>,  
 <a name="a35510">Balbalis, John, 1929-1991</a>,  
 <a name="a8896">Balbo, Cesare, conte, 1789-1853</a>,  
 <a name="a46727">Balch, Edwin Swift, 1856-1927</a>,  
 <a name="a33541">Balch, Frederic Homer, 1861-1891</a>,  
 <a name="a47204">Balch, H. E. (Herbert Ernest)</a>,  
 <a name="a4041">Balch, Thomas, 1821-1877</a>,  
 <a name="a7481">Balch, William Stevens, 1806-1887</a>,  
 <a name="a53098">Balck, W. (William), 1859-1924</a>,  
 <a name="a37482">Baldaque da Silva, Antonio Arthur, 1852-1921?</a>,  
 <a name="a54805">Balde, Jean, 1885-1938</a>,  
 <a name="a6382">Baldridge, Cyrus Leroy, 1889-1977</a>,  
 <a name="a38541">Baldry, A. L. (Alfred Lys), 1858-1939</a>,  
 <a name="a35841">Baldwin, A. C. (Abraham Chittenden), 1804-1887</a>,  
 <a name="a7200">Baldwin, Edward Chauncey, 1870-1940</a>,  
 <a name="a5237">Baldwin, Elihu W. (Elihu Whittlesey), 1789-1840</a>,

<a name="a49939">Baldwin, Elizabeth L.</a>,  
 <a name="a39000">Baldwin, Faith, 1893-1978</a>,  
 <a name="a31753">Baldwin, Gerald</a>,  
 <a name="a1982">Baldwin, James, 1841-1925</a>,  
 <a name="a9355">Baldwin, James Mark, 1861-1934</a>,  
 <a name="a31964">Baldwin, John D. (John Denison), 1809-1883</a>,  
 <a name="a55276">Baldwin, Josephine L.</a>,  
 <a name="a39339">Baldwin, Lida F.</a>,  
 <a name="a39973">Baldwin Locomotive Works</a>,  
 <a name="a9061">Baldwin, May</a>,  
 <a name="a2854">Baldwin, Simeon E. (Simeon Eben), 1840-1927</a>,  
 <a name="a55964">Bale, John, 1495-1563</a>,  
 <a name="a38570">Balen, J. Hendrik van, 1851-1921</a>,  
 <a name="a24972">Balen-Klaar, Frederike Swaantje van, 1861-1952</a>,  
 <a name="a54368">Bales, P. G.</a>,  
 <a name="a40601">Balfe, M. W. (Michael William), 1808-1870</a>,  
 <a name="a49596">Balfour, Arthur James, 1848-1930</a>,  
 <a name="a50244">Balfour, David, 1811-1887</a>,  
 <a name="a46398">Balfour, Frances, Lady, 1858-1931</a>,  
 <a name="a41135">Balfour, Francis M. (Francis Maitland), 1851-1882</a>,  
 <a name="a6484">Balfour, Frederic Henry</a>,  
 <a name="a36471">Balfour, Grant</a>,  
 <a name="a44022">Balfour, Henry, 1863-1939</a>,  
 <a name="a51323">Balfour, Isaac Bayley, 1853-1922</a>,  
 <a name="a46125">Balfour, John Hutton, 1808-1884</a>,  
 <a name="a45822">Balg, G. H. (Gerhard Hubert), 1852-1933</a>,  
 <a name="a53974">Bálint, Aladár, 1881-1924</a>,  
 <a name="a53103">Bálint, Jenő, 1889-1945</a>,  
 <a name="a53656">Bálint, Mihály</a>,  
 <a name="a9702">Ball, Alec</a>,  
 <a name="a54431">Ball, Alice A., 1892-1916</a>,  
 <a name="a50673">Ball, Alice Eliza, 1867-1948</a>,  
 <a name="a333">Ballantyne, R. M. (Robert Michael), 1825-1894</a>,  
 <a name="a41711">Ballard, Edward, 1804-1870</a>,  
 <a name="a39021">Ballard, Harlan Hoge, 1853-1934</a>,  
 <a name="a40405">Ballard, Robert</a>,  
 <a name="a54816">Ball, Benjamin West, 1823-1896</a>,  
 <a name="a40810">Ball, Charles, 1781?-</a>,  
 <a name="a41765">Ball, C. J. (Charles James), 1851?-1924</a>,  
 <a name="a41080">Ball, E. A. R., -1928</a>,  
 <a name="a1836">Ball, Eustace Hale, 1881-1931</a>,  
 <a name="a34999">Ball, Francis Kingsley, 1863-1942</a>,  
 <a name="a40488">Ball-Hennings, Emmy, 1885-1948</a>,  
 <a name="a1063">Ball, Hugo, 1886-1927</a>,  
 <a name="a7186">Balliet, Thomas M. (Thomas Minard), 1852-1942</a>,  
 <a name="a36190">Ballinger, Harry Russell, 1892-1993</a>,  
 <a name="a46816">Ballin, I. T.</a>,

<a name="a52455">Ball, James Moores, 1863-1929</a>,  
 <a name="a46903">Ball, John, 1818-1889</a>,  
 <a name="a6886">Ball, Margaret, 1878-1952</a>,  
 <a name="a33662">Ballon, Victorine</a>,  
 <a name="a2707">Ballou, Hosea, 1771-1852</a>,  
 <a name="a1543">Ballou, Maturin M. (Maturin Murray), 1820-1895</a>,  
 <a name="a866">Ball, Robert S. (Robert Stawell), 1840-1913</a>,  
 <a name="a32727">Ball, Thomas Hanly</a>,  
 <a name="a46981">Balluff, George Erhart, 1864-</a>,  
 <a name="a53636">Ball, Wilfrid, 1853-1917</a>,  
 <a name="a32006">Ball, W. P. (William Platt)</a>,  
 <a name="a32266">Ball, W. W. Rouse (Walter William Rouse), 1850-1925</a>,  
 <a name="a36128">Balmer, Clinton</a>,  
 <a name="a36187">Balmer, Edwin, 1883-1959</a>,  
 <a name="a46373">Balmer, Johann Jakob, 1825-1898</a>,  
 <a name="a5162">Balmes, Jaime Luciano, 1810-1848</a>,  
 <a name="a25485">Balsemão, Jayme de, 1891-1947</a>,  
 <a name="a6650">Baltzell, W. J. (Winton James), 1864-1928</a>,  
 <a name="a35946">Baluyut, Violeta D.</a>,  
 <a name="a45226">Balyuzi, H. M., 1908-1980</a>,  
 <a name="a251">Balzac, Honoré de, 1799-1850</a>,  
 <a name="a51741">Balzani, Ugo, 1847-1916</a>,  
 <a name="a37090">Balza, Pedro L.</a>,  
 <a name="a26356">Bamberger, Max</a>,  
 <a name="a1254">Bamford, Mary E. (Mary Ellen), 1857-1946</a>,  
 <a name="a47100">Bampfylde, C. A.</a>,  
 <a name="a40993">Bāṇa</a>,  
 <a name="a26543">Bancks, Gerard W.</a>,  
 <a name="a46149">Bancroft, Caroline</a>,  
 <a name="a51120">Bancroft, Charles</a>,  
 <a name="a1602">Bancroft, Edith</a>,  
 <a name="a756">Bancroft, Elizabeth Davis, 1803-1886</a>,  
 <a name="a32221">Bancroft, George, 1800-1891</a>,  
 <a name="a944">Bancroft, Hubert Howe, 1832-1918</a>,  
 <a name="a9523">Bancroft, Jane M. (Jane Marie), 1847-1932</a>,  
 <a name="a31491">Bancroft, Jessie Hubbell, 1867-</a>,  
 <a name="a3412">Banda de Zapadores de Mexico</a>,  
 <a name="a9403">Bandarra, Gonçalo Anes, 1500?-1556?</a>,  
 <a name="a7940">Bandelier, Adolph Francis Alphonse, 1840-1914</a>,  
 <a name="a2522">Bandini, Helen Elliott, 1854-1911</a>,  
 <a name="a3785">Banerjea, S. B.</a>,  
 <a name="a53484">Bánffy, Miklós, 1874-1950</a>,  
 <a name="a1701">Banfield, E. J. (Edmund James), 1852-1923</a>,  
 <a name="a56031">Banfield, Frank</a>,  
 <a name="a3638">Bang, Herman, 1857-1912</a>,  
 <a name="a979">Bangs, John Kendrick, 1862-1922</a>,  
 <a name="a55749">Bangs, Mary Rogers</a>,

<a name="a47732">Bangs, Nathan, 1778-1862</a>,  
 <a name="a37550">Bangs, Outram, 1862-1932</a>,  
 <a name="a26075">Ban, Gu, 32-92</a>,  
 <a name="a6303">Banim, John, 1798-1842</a>,  
 <a name="a46252">Banister, Manly, 1914-1986</a>,  
 <a name="a39322">Banks, G. Linnaeus (George Linnaeus), Mrs., 1821-1897</a>,  
 <a name="a48715">Banks, Joseph, 1743-1820</a>,  
 <a name="a2197">Banks, Louis Albert, 1855-1933</a>,  
 <a name="a3960">Banks, Nancy Huston, 1849-1934</a>,  
 <a name="a36518">Banks, Nathan, 1868-1953</a>,  
 <a name="a53702">Banks, Raymond E., 1918-1996</a>,  
 <a name="a31424">Banks, William, 1859?-1920</a>,  
 <a name="a35562">Bannerman, A. Islay</a>,  
 <a name="a605">Bannerman, Helen, 1862-1946</a>,  
 <a name="a39950">Bann, Fred</a>,  
 <a name="a25711">Banta, Frank</a>,  
 <a name="a49450">Banting, William, 1797-1878</a>,  
 <a name="a7426">Banville, Théodore Faullain de, 1823-1891</a>,  
 <a name="a32331">Banyunyou</a>,  
 <a name="a26333">Baowenglaoren</a>,  
 <a name="a40644">Baraga, Frederic, 1797-1868</a>,  
 <a name="a54764">Baráibar y Zumárraga, Federico, 1851-1918</a>,  
 <a name="a31173">Barata, António Francisco, 1836-1910</a>,  
 <a name="a5230">Barbara, Charles, 1817-1866</a>,  
 <a name="a3932">Barbarich, Eugenio, 1868-1931</a>,  
 <a name="a5368">Barbault, Mrs. (Anna Letitia), 1743-1825</a>,  
 <a name="a40093">Barbellion, W. N. P., 1889-1919</a>,  
 <a name="a43441">Barbé, Louis A., 1845-1926</a>,  
 <a name="a46947">Barberá, Joaquín</a>,  
 <a name="a51180">Barber Asphalt Paving Co.</a>,  
 <a name="a55257">Barber, Edward, 1841-1914</a>,  
 <a name="a426">Barber, H. (Horatio), 1875-1964</a>,  
 <a name="a53881">Barber, H. L. (Herbert Lee), 1865-1937</a>,  
 <a name="a55920">Barber, Ida, 1842-1931</a>,  
 <a name="a34532">Barberis</a>,  
 <a name="a43420">Barber, James, active 1837-1839</a>,  
 <a name="a38393">Barber, J. T.</a>,  
 <a name="a53704">Barber, Mary D.</a>,  
 <a name="a49922">Barber, Thomas Walter, -1917</a>,  
 <a name="a5245">Barbey d'Aurevilly, J. (Jules), 1808-1889</a>,  
 <a name="a56328">Barbey, Frédéric, 1879-1970</a>,  
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 <a name="a43465">Barbier, Jules, 1825-1901</a>,  
 <a name="a39351">Barbosa, Duarte, 1480?-1521</a>,

<a name="a7206">Barbosa, Inácio de Vilhena, 1811-1890</a>,  
 <a name="a34602">Barbosa, José, 1869-1923</a>,  
 <a name="a8983">Barbosa, Vicente, 1663-1721</a>,  
 <a name="a841">Barbour, A. Maynard (Anna Maynard), -1941</a>,  
 <a name="a24752">Barbour, Harold S., 1889-1961</a>,  
 <a name="a42677">Barbour, John, -1395</a>,  
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 <a name="a1472">Barbusse, Henri, 1873-1935</a>,  
 <a name="a34461">Barce, Elmore, 1872-1945</a>,  
 <a name="a5815">Barcia, Roque, 1823?-1885</a>,  
 <a name="a9130">Barclay, Alexander, 1475?-1552</a>,  
 <a name="a56199">Barclay, Edgar, 1842-1913</a>,  
 <a name="a1253">Barclay, Florence L. (Florence Louisa), 1862-1921</a>,  
 <a name="a50907">Barclay, Harold, 1872-1922</a>,  
 <a name="a34428">Barclay, Hubert, Mrs., 1872-</a>,  
 <a name="a33721">Barclay, Lorne W. (Lorne Webster), 1885-</a>,  
 <a name="a54790">Barclay, McKee, 1869-1947</a>,  
 <a name="a48879">Barclay, Robert, 1648-1690</a>,  
 <a name="a31812">Barclay, Vera C. (Vera Charlesworth), 1893-</a>,  
 <a name="a31238">Barco Centenera, Martín del, 1535-</a>,  
 <a name="a41735">Barcynska, Countess (Hélène), 1894-1964</a>,  
 <a name="a33251">Bardeen, C. W. (Charles William), 1847-1924</a>,  
 <a name="a43072">Barde, Frederick S.</a>,  
 <a name="a41012">Bard, Philip, 1912-1966</a>,  
 <a name="a39939">Bardsley, Charles Wareing Endell, 1843-1898</a>,  
 <a name="a49274">Bardswell, Frances A.</a>,  
 <a name="a49245">Bardwell, George Willis, 1868-1937</a>,  
 <a name="a49260">Bardwell, Harrison, 1881-</a>,  
 <a name="a52629">Barefoot, D. W.</a>,  
 <a name="a34042">Barefoot, Wesley</a>,  
 <a name="a52308">Bareilles, Bertrand, 1859-1933</a>,  
 <a name="a39740">Barff, Frederick Settle, 1823-1886</a>,  
 <a name="a56175">Barfield, Owen, 1898-1997</a>,  
 <a name="a5621">Barfus, E. von (Eginhard), 1825-1909</a>,  
 <a name="a9307">Barham, G. Basil (George Basil)</a>,  
 <a name="a8679">Barhite, Jared</a>,  
 <a name="a34462">Barhydt, Jerome A.</a>,  
 <a name="a33205">Barine, Arvède, 1840-1908</a>,  
 <a name="a1766">Baring-Gould, S. (Sabine), 1834-1924</a>,  
 <a name="a937">Baring, Maurice, 1874-1945</a>,  
 <a name="a7660">Barker, B. (Benjamin)</a>,  
 <a name="a5373">Barker, C. Hélène, 1868-</a>,  
 <a name="a52910">Barker, David Crothers, 1888-1946</a>,  
 <a name="a2796">Barker, Edward Harrison, 1851-1919</a>,  
 <a name="a43247">Barker, Ernest, Sir, 1874-1960</a>,  
 <a name="a53669">Barker, George F. (George Frederick), 1835-1910</a>,  
 <a name="a33793">Barker, James Nelson, 1784-1858</a>,



<a name="a33291">Barker, J. Ellis, 1870-1948</a>,  
 <a name="a31307">Barker, John Marshall, 1849-1928</a>,  
 <a name="a8187">Barker, Joseph, 1806-1875</a>,  
 <a name="a1905">Barker, Lady (Mary Anne), 1831-1911</a>,  
 <a name="a207">Barker, Nettie Garmer</a>,  
 <a name="a47681">Barker, Sale, Mrs., 1841-1892</a>,  
 <a name="a53886">Barker, Shirley, 1911-1965</a>,  
 <a name="a31803">Barker, Thomas, active 1651</a>,  
 <a name="a54029">Barker, W. H. (William Henry), 1882-1929</a>,  
 <a name="a40996">Barkley, Henry C.</a>,  
 <a name="a26138">Barksdale, Lena E.</a>,  
 <a name="a33999">Barksted, William, active 1611</a>,  
 <a name="a48314">Barley, Alfred H.</a>,  
 <a name="a42297">Barlow, A. R. (Albert Rowe)</a>,  
 <a name="a50632">Barlow, Fred, 1888-</a>,  
 <a name="a51795">Barlow, George</a>,  
 <a name="a32127">Barlow, Glyn</a>,  
 <a name="a53479">Barlow, Inigo, 1760?-</a>,  
 <a name="a54314">Barlow, James William, 1826-1913</a>,  
 <a name="a6301">Barlow, Jane, 1856-1917</a>,  
 <a name="a2849">Barlow, Joel, 1754-1812</a>,  
 <a name="a36078">Barlow, Jon C.</a>,  
 <a name="a52756">Barlow, P. W. (Peter William), 1847-1890</a>,  
 <a name="a35857">Barlow, R. H. (Robert Hayward), 1918-1951</a>,  
 <a name="a50431">Barlow, Thomas Lambert</a>,  
 <a name="a52680">Bärlund, Johan, 1870-1938</a>,  
 <a name="a55949">Barmführ, H. (Heinrich), 1867-1937</a>,  
 <a name="a35098">Barnard, Charles, 1838-1920</a>,  
 <a name="a3227">Barnard, Charles Inman, 1850-1942</a>,  
 <a name="a37169">Barnard, Ella K. (Ella Kent), 1853-</a>,  
 <a name="a41534">Barnard, Frederick, 1846-1896</a>,  
 <a name="a55626">Barnard, Guy Christian, 1896-1976</a>,  
 <a name="a42764">Barnard, Henry, 1811-1900</a>,  
 <a name="a34084">Barnard, John</a>,  
 <a name="a39207">Barnard, M. R. (Mordaunt Roger)</a>,  
 <a name="a55399">Barnard, Seymour</a>,  
 <a name="a4995">Barnard, William Francis</a>,  
 <a name="a48235">Barnes, Albert, 1798-1870</a>,  
 <a name="a37255">Barnes, Annie Maria, 1857-</a>,  
 <a name="a55224">Barnes, Arthur K., 1909-1969</a>,  
 <a name="a5246">Barnes, Charles J. (Charles Joseph), 1837-1921</a>,  
 <a name="a56389">Barnes, Charles R.</a>,  
 <a name="a51179">Barnes, Djuna, 1892-1982</a>,  
 <a name="a6199">Barnes, Earl, 1861-1935</a>,  
 <a name="a55231">Barnes, Elmer Tracey</a>,  
 <a name="a44197">Barnes, Frank</a>,  
 <a name="a42682">Barnes, George Foster</a>,

<a name="a44089">Barnes-Grundy, Mabel</a>,  
 <a name="a37771">Barnes, Hiram P. (Hiram Putnam)</a>,  
 <a name="a38095">Barnes, James, 1866-1936</a>,  
 <a name="a43033">Barnes, John S. (John Sanford), 1836-1911</a>,  
 <a name="a55252">Barnes, Nellie</a>,  
 <a name="a38742">Barnes, Orange Perry, 1858-</a>,  
 <a name="a25700">Barnes, Robert, 1840-1895</a>,  
 <a name="a2101">Barnes, Walter, 1880-1969</a>,  
 <a name="a41221">Barnes, Will C. (Will Croft), 1858-1936</a>,  
 <a name="a24887">Barnes, William, 1801-1886</a>,  
 <a name="a42396">Barnes, William H.</a>,  
 <a name="a26607">Barnes, William Horatio</a>,  
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 <a name="a50898">Barnett, Ada</a>,  
 <a name="a41335">Barnett, C. Z. (Charles Zachary)</a>,  
 <a name="a9574">Barnett, Evelyn Snead, -1921</a>,  
 <a name="a38446">Barnett, H. Villiers, 1858-1928</a>,  
 <a name="a42547">Barnett, J. P.</a>,  
 <a name="a25584">Barnett, Lionel D. (Lionel David), 1871-1960</a>,  
 <a name="a52828">Barnett, S. A., Mrs., 1851-1936</a>,  
 <a name="a52827">Barnett, S. A. (Samuel Augustus), 1844-1913</a>,  
 <a name="a2546">Barney, J. Stewart (John Stewart), 1867-1925</a>,  
 <a name="a35429">Barney, Maginel Wright, 1877-1966</a>,  
 <a name="a45595">Barney, Natalie Clifford</a>,  
 <a name="a8950">Barnfield, Richard, 1574-1627</a>,  
 <a name="a46602">Barnitz, David Park, 1878-1901</a>,  
 <a name="a54778">Barnouw, Adriaan Jacob, 1877-1968</a>,  
 <a name="a2816">Barnum, P. T. (Phineas Taylor), 1810-1891</a>,  
 <a name="a3820">Barnum, Richard</a>,  
 <a name="a3584">Barnum, Vance</a>,  
 <a name="a2669">Baroja, Pio, 1872-1956</a>,  
 <a name="a31998">Baron, Albert Heyem Nachmen, 1883-</a>,  
 <a name="a39585">Baron, David</a>,  
 <a name="a1585">Baron, Monsieur (Michel), 1653-1729</a>,  
 <a name="a50935">Baró, Teodoro, 1842-1916</a>,  
 <a name="a34952">Barraclough, Wm. H. (William H.), 1865-1926</a>,  
 <a name="a2199">Barr, Amelia E., 1831-1919</a>,  
 <a name="a31510">Barranco, Mariano, 1850-</a>,  
 <a name="a53735">Barratt, Reginald, 1861-1917</a>,  
 <a name="a39750">Barraud, George</a>,  
 <a name="a45832">Barrère, Albert</a>,  
 <a name="a6948">Barrès, Maurice, 1862-1923</a>,  
 <a name="a54309">Barreto, Lima, 1881-1922</a>,  
 <a name="a35186">Barreto, Moniz, 1865-1894</a>,  
 <a name="a47320">Barrets, J. L.</a>,  
 <a name="a52885">Barrett, Charles, 1879-1959</a>,  
 <a name="a9359">Barrett, Charles Raymond, 1874-</a>,

<a name="a46973">Barrett, C. R. B. (Charles Raymond Booth), 1850-1918</a>,  
 <a name="a42007">Barrett, Eaton Stannard, 1786-1820</a>,  
 <a name="a5283">Barrett, Florence Elizabeth, 1867-1945</a>,  
 <a name="a54901">Barrett, Francis</a>,  
 <a name="a3653">Barrett, Frank, 1848-1926</a>,  
 <a name="a31869">Barrett, James Francis, 1888-1934</a>,  
 <a name="a41422">Barrett, James W. (James William), Sir, 1862-1945</a>,  
 <a name="a52810">Barrett, John</a>,  
 <a name="a45450">Barrett, John, 1866-1938</a>,  
 <a name="a35026">Barrett, Katharine Ellis, 1879-</a>,  
 <a name="a49681">Barrett, M.</a>,  
 <a name="a7397">Barrett, Michael, 1848-</a>,  
 <a name="a37301">Barrett, Orvey S.</a>,  
 <a name="a46770">Barrett, Philip, 1838-1900</a>,  
 <a name="a38473">Barrett, Robert Emmet</a>,  
 <a name="a41962">Barrett, S. A. (Samuel Alfred), 1879-1965</a>,  
 <a name="a35148">Barrett, S. M. (Stephen Melvil), 1865-1948</a>,  
 <a name="a44600">Barrett, William, Sir, 1844-1925</a>,  
 <a name="a32805">Barr, George, 1937-</a>,  
 <a name="a10">Barrie, J. M. (James Matthew), 1860-1937</a>,  
 <a name="a4872">Barrière, Théodore, 1825-1877</a>,  
 <a name="a4056">Barrili, Anton Giulio, 1836-1908</a>,  
 <a name="a8868">Barrillon, François-Guillaume, 1804-1885</a>,  
 <a name="a45545">Barrington, Jonah, Sir</a>,  
 <a name="a53366">Barrington, Richard Manliffe, 1849-1915</a>,  
 <a name="a38118">Barrington, Russell, Mrs., -1933</a>,  
 <a name="a51291">Barrin, Jean, 1640?-1718</a>,  
 <a name="a45554">Barr, James, Captain</a>,  
 <a name="a42925">Barr, James Smith</a>,  
 <a name="a44037">Barr, John, 1887-1971</a>,  
 <a name="a7821">Barron, Clarence W. (Clarence Walker), 1855-1928</a>,  
 <a name="a43652">Barron, Edward, 1874-</a>,  
 <a name="a36998">Barron, James, 1769-1851</a>,  
 <a name="a45926">Barron, S. B. (Samuel Benton), 1834-</a>,  
 <a name="a25297">Barroso, Carlos</a>,  
 <a name="a3430">Barrow, Isaac, 1630-1677</a>,  
 <a name="a5518">Barrow, John, Sir, 1764-1848</a>,  
 <a name="a2701">Barrow, Katherine Mary</a>,  
 <a name="a34018">Barrow, Sarah L.</a>,  
 <a name="a33413">Barrows, David P., 1873-1954</a>,  
 <a name="a7259">Barrows, E. P. (Elijah Porter), 1807-1888</a>,  
 <a name="a40003">Barrows, John Henry, 1847-1902</a>,  
 <a name="a54491">Barrow, Thomas</a>,  
 <a name="a1616">Barr, Robert, 1850-1912</a>,  
 <a name="a46361">Barr, Stephen</a>,  
 <a name="a53989">Barrucand, Victor, 1864-1934</a>,  
 <a name="a2085">Barrus, Clara, 1864-1931</a>,

<a name="a56318">Barry, Alfred, 1826-1910</a>,  
 <a name="a6348">Barry, Etheldred B. (Etheldred Breeze), 1870-1967</a>,  
 <a name="a33234">Barry, Fanny</a>,  
 <a name="a54988">Barry, Florence V. (Florence Valentine)</a>,  
 <a name="a50878">Barry, Iris, 1895-1969</a>,  
 <a name="a4461">Barry, J. G. H. (Joseph Gayle Hurd), 1858-1931</a>,  
 <a name="a50974">Barry, John Arthur, 1851-1911</a>,  
 <a name="a1117">Barry, John D. (John Daniel), 1866-1942</a>,  
 <a name="a37694">Barry, Joseph, 1828?-1905</a>,  
 <a name="a48638">Barry, Richard, 1881-</a>,  
 <a name="a50587">Barschdorff, Fritz</a>,  
 <a name="a32770">Bársony, István, 1855-1928</a>,  
 <a name="a32655">Barstow, Beatrice</a>,  
 <a name="a43824">Barstow, Charles L. (Charles Lester), 1867-</a>,  
 <a name="a49160">Bartell, Edmund</a>,  
 <a name="a45740">Barth, Christian Gottlob, 1799-1862</a>,  
 <a name="a45638">Barthélemy, Edmond, 1868-1934</a>,  
 <a name="a34043">Barth, Ernie</a>,  
 <a name="a6702">Bartholdt, Richard, 1855-1932</a>,  
 <a name="a40149">Bartholomaeus, Anglicus, active 13th century</a>,  
 <a name="a26218">Bartholomew, A. T. (Augustus Theodore), 1882-1933</a>,  
 <a name="a52860">Bartholomew, Charles Lewis, 1869-1949</a>,  
 <a name="a52830">Bartholomew, Fred. R.</a>,  
 <a name="a40889">Bartholomew, J. G. (John George), 1860-1920</a>,  
 <a name="a34734">Bartholomew, Stephen</a>,  
 <a name="a31547">Bartimeus, 1886-1967</a>,  
 <a name="a42485">Bartlett, Alden Eugene, 1873-</a>,  
 <a name="a54432">Bartlett, Alice E. (Alice Elinor), 1848-1920</a>,  
 <a name="a7039">Bartlett, D. W. (David W.), 1828-1912</a>,  
 <a name="a49768">Bartlett, Elizabeth, 1911-1994</a>,  
 <a name="a55101">Bartlett, Frances</a>,  
 <a name="a9294">Bartlett, Frederick Orin, 1876-1945</a>,  
 <a name="a45842">Bartlett, George Willard, 1857-</a>,  
 <a name="a6896">Bartlett, John, 1820-1905</a>,  
 <a name="a37548">Bartlett, John Russell, 1805-1886</a>,  
 <a name="a40002">Bartlett, Paul Alexander, 1909-1990</a>,  
 <a name="a42993">Bartlett, Steven J., 1945-</a>,  
 <a name="a31361">Bartlett, Vernon, 1894-1983</a>,  
 <a name="a40049">Bartlett, W. C. (William Chauncey), 1818-1907</a>,  
 <a name="a37284">Bartlett, W. H. (William Henry), 1809-1854</a>,  
 <a name="a6898">Bartley, James Avis, 1830-</a>,  
 <a name="a34131">Bartley, Nalbro, 1888-1952</a>,  
 <a name="a31653">Bartol, C. A. (Cyrus Augustus), 1813-1900</a>,  
 <a name="a42809">Bartoli, Adolfo, 1833-1894</a>,  
 <a name="a53472">Bartolozzi, Francesco, 1727-1815</a>,  
 <a name="a54194">Barton, Ardelia Maria Cotton, 1843-</a>,  
 <a name="a34455">Barton, Clara, 1821-1912</a>,

<a name="a45270">Bartonek, James C.</a>,  
 <a name="a43889">Barton, Frank Townend, 1869?-1948</a>,  
 <a name="a45761">Barton, George, 1866-1940</a>,  
 <a name="a49199">Barton, George A. (George Aaron), 1859-1942</a>,  
 <a name="a54927">Barton, Helen M.</a>,  
 <a name="a51500">Barton, James L. (James Levi), 1855-1936</a>,  
 <a name="a55482">Barton, J. E.</a>,  
 <a name="a41773">Barton, Ralph, 1891-1931</a>,  
 <a name="a40828">Barton, Roy Franklin, 1883-1947</a>,  
 <a name="a6665">Barton, William E. (William Eleazar), 1861-1930</a>,  
 <a name="a52554">Bartram, William, 1739-1823</a>,  
 <a name="a35099">Bartrum, Edward, 1833-1905</a>,  
 <a name="a45625">Bartsch, Rudolf Hans, 1873-1952</a>,  
 <a name="a37265">Barué, Sulpice</a>,  
 <a name="a31142">Barzilai, Salvatore</a>,  
 <a name="a7372">Barzini, Luigi, 1874-1947</a>,  
 <a name="a45055">Bascom, Caroline Crowninshield</a>,  
 <a name="a54146">Bascome, Edward</a>,  
 <a name="a45269">Baserga, Renato, 1925-</a>,  
 <a name="a37411">Bashford, H. H. (Henry Howarth), Sir, 1880-1961</a>,  
 <a name="a5287">Bashkirtseff, Marie, 1860?-1884</a>,  
 <a name="a7631">Basile, Domenico, active 17th century</a>,  
 <a name="a855">Basile, Giambattista, 1575?-1632</a>,  
 <a name="a31925">Basilus Valentinus</a>,  
 <a name="a41238">Baskerville, Beatrice C., 1878-1955</a>,  
 <a name="a5327">Baskervill, William Malone, 1850-1899</a>,  
 <a name="a46689">Bass, Cora C.</a>,  
 <a name="a54914">Bassell, Burr</a>,  
 <a name="a4756">Basset, René, 1855-1924</a>,  
 <a name="a46581">Bassett, John Spencer, 1867-1928</a>,  
 <a name="a2534">Bassett, Sara Ware, 1872-1968</a>,  
 <a name="a9489">Bassewitz, Gerdt von, 1878-1923</a>,  
 <a name="a39308">Bass, George, 1771-1803</a>,  
 <a name="a8253">Bassnett, Thomas, 1808-</a>,  
 <a name="a37714">Bass, William Wallace, 1848-1933</a>,  
 <a name="a8299">Bastard, Algernon</a>,  
 <a name="a5972">Bastiaanse, Frans, 1868-1947</a>,  
 <a name="a43952">Bastianelli, Giannotto, 1883-1927</a>,  
 <a name="a45297">Bastian, H. Charlton, 1837-1915</a>,  
 <a name="a6395">Bastiat, Frédéric, 1801-1850</a>,  
 <a name="a39126">Bastide, Charles, 1875-</a>,  
 <a name="a43173">Bastin, S. Leonard</a>,  
 <a name="a26682">Bastos, Teixeira, 1857-1902</a>,  
 <a name="a55043">Batalha Reis, Jaime, 1847-1935</a>,  
 <a name="a52682">Batcheller, Birney C. (Birney Clark), 1865-1950</a>,  
 <a name="a32411">Bate, Henry</a>,  
 <a name="a35021">Bate, John</a>,

<a name="a54964">Batěk, Alexandr, 1874-1944</a>,  
 <a name="a40148">Bateman, Frederick, Sir, 1824-1904</a>,  
 <a name="a38858">Bateman, George W.</a>,  
 <a name="a40105">Bateman, H. M. (Henry Mayo), 1887-1970</a>,  
 <a name="a43697">Bateman, Jas. (James), 1811-1897</a>,  
 <a name="a48265">Bateman, May</a>,  
 <a name="a50680">Bateman, Reginald, 1884?-1918</a>,  
 <a name="a2784">Bates, Arlo, 1850-1918</a>,  
 <a name="a39299">Bates, Bertha Corson Day, 1875-1968</a>,  
 <a name="a26558">Bates, Clara Doty, 1838-1895</a>,  
 <a name="a45675">Bates, Cornelia Frances, 1826-1908</a>,  
 <a name="a9689">Bates, E. Katherine (Emily Katherine)</a>,  
 <a name="a44869">Bates, E. S. (Ernest Stuart), 1876-1944</a>,  
 <a name="a33755">Bates, Harry, 1900-1981</a>,  
 <a name="a910">Bates, Henry Walter, 1825-1892</a>,  
 <a name="a25106">Bates, Joseph, 1792-1872</a>,  
 <a name="a2578">Bates, Katharine Lee, 1859-1929</a>,  
 <a name="a54472">Bates, Lizzie</a>,  
 <a name="a36863">Bates, Lois</a>,  
 <a name="a33456">Bateson, William, 1861-1926</a>,  
 <a name="a48590">Bates, Oric, 1883-1918</a>,  
 <a name="a53460">Bates, Walter</a>,  
 <a name="a44498">Bath, W. Harcourt (William Harcourt)</a>,  
 <a name="a52775">Batka, Richard, 1868-1922</a>,  
 <a name="a43172">Batres Jáuregui, Antonio</a>,  
 <a name="a41086">Battell, Andrew, 1560-1613</a>,  
 <a name="a36575">Batten, Charles</a>,  
 <a name="a6327">Batten, John Dickson, 1860-1932</a>,  
 <a name="a31565">Batten, John M. (John Mullin), 1837-1916</a>,  
 <a name="a2426">Battersby, H. S. (Hannah S.), -1887?</a>,  
 <a name="a42242">Battershall, Jesse P. (Jesse Park), 1851-1891</a>,  
 <a name="a53774">Batthyány, Gyula, gróf, 1887-1959</a>,  
 <a name="a34256">Battison, Edwin A.</a>,  
 <a name="a41004">Batz-Trenquelléon, Charles de, 1835-1914</a>,  
 <a name="a40008">Baucher, François, 1796-1873</a>,  
 <a name="a1947">Baudelaire, Charles, 1821-1867</a>,  
 <a name="a43543">Baudesson, Henry</a>,  
 <a name="a9486">Baudiš, Josef, 1883-</a>,  
 <a name="a53889">Baudissin, Eva Gräfin von, 1869-1943</a>,  
 <a name="a43937">Baudissin, Wolf Ernst Hugo Emil, Graf von, 1867-1926</a>,  
 <a name="a40530">Bauditz, Sophus, 1850-1915</a>,  
 <a name="a53954">Baudot, Victor, 1844-1922</a>,  
 <a name="a55858">Baudouin, Charles, 1893-1963</a>,  
 <a name="a39994">Bauer, E. B.</a>,  
 <a name="a40152">Bauer, Juliette</a>,  
 <a name="a44629">Bauer, Max, 1861-1932</a>,  
 <a name="a52344">Bauer, W. W. (William Waldo), 1892-1967</a>,

<a name="a46381">Baughan, Edward Algernon, 1865-1938</a>,  
 <a name="a41914">Baughan, Rosa</a>,  
 <a name="a33011">Baukhage, Hilmar R. (Hilmar Robert), 1889-</a>,  
 <a name="a33037">Bauman, G. A.</a>,  
 <a name="a54854">Baumann, Emile, 1868-1942</a>,  
 <a name="a54584">Baumann, Oskar, 1864-1899</a>,  
 <a name="a35758">Baumbach, Rudolf, 1840-1905</a>,  
 <a name="a31813">Baumer, Lewis Christopher Edward, 1870-1963</a>,  
 <a name="a42361">Baumgärtner, P.</a>,  
 <a name="a51306">Baum, Henry Clay, 1859-1916</a>,  
 <a name="a42450">Baumhoff, Martin A.</a>,  
 <a name="a42">Baum, L. Frank (Lyman Frank), 1856-1919</a>,  
 <a name="a39563">Baum, M. Louise, 1867-</a>,  
 <a name="a43984">Baum, Oskar, 1883-1941</a>,  
 <a name="a9868">Baum, Paull F. (Paull Franklin), 1886-1964</a>,  
 <a name="a45535">Baur, Erwin, 1875-1933</a>,  
 <a name="a55449">Baur, Theodor, 1835-1894</a>,  
 <a name="a54405">Baus, Georg, 1889-1971</a>,  
 <a name="a5846">Bausman, Benjamin, 1824-1909</a>,  
 <a name="a41605">Bavinck, Herman, 1854-1921</a>,  
 <a name="a42120">Bax, Clifford, 1886-1962</a>,  
 <a name="a9310">Bax, Ernest Belfort, 1854-1926</a>,  
 <a name="a7416">Baxter, Beverley, 1891-1964</a>,  
 <a name="a42787">Baxter, Leon H.</a>,  
 <a name="a41274">Baxter, Richard, 1615-1691</a>,  
 <a name="a7533">Bayard, Émile Antoine, 1837-1891</a>,  
 <a name="a48439">Bayard, Jean-François-Alfred, 1796-1853</a>,  
 <a name="a46037">Bayersdorfer, Adolph, 1842-1901</a>,  
 <a name="a32391">Bayes, Alfred Walter, 1832-1909</a>,  
 <a name="a55492">Bayha, Edwin F., 1880-1937</a>,  
 <a name="a53329">Bayle, Pierre, 1647-1706</a>,  
 <a name="a42649">Bayles, W. Harrison (William Harrison), 1841-</a>,  
 <a name="a39645">Bayley, Abner</a>,  
 <a name="a46866">Bayley, Emilius, Sir, 1823-1917</a>,  
 <a name="a41363">Bayley, Harold</a>,  
 <a name="a53152">Bayley, Solomon</a>,  
 <a name="a4751">Bayliss, Clara Kern, 1848-</a>,  
 <a name="a32378">Bayliss, W. D.</a>,  
 <a name="a37334">Bayly, A. Eric</a>,  
 <a name="a49774">Bayly, Mrs. (Mary)</a>,  
 <a name="a42819">Bayne, A. D.</a>,  
 <a name="a35376">Bayne, Mary Addams</a>,  
 <a name="a42211">Bayne, Ronald, Rev., 1859-1922</a>,  
 <a name="a25120">Bayne, Samuel G. (Samuel Gamble), 1844-1924</a>,  
 <a name="a53572">Baynes, Ernest Harold, 1868-1925</a>,  
 <a name="a46916">Baynes, Philip</a>,  
 <a name="a1692">Bayne, Thomas, 1845-1931</a>,

<a name="a53730">Bayo, Ciro, 1860-1939</a>,  
 <a name="a44500">Bazalgette, Léon, 1873-1928</a>,  
 <a name="a43605">Bazancourt, César Lecat, baron de, 1810-1865</a>,  
 <a name="a1348">Bazin, René, 1853-1932</a>,  
 <a name="a3110">Bazzero, Ambrogio, 1851-1882</a>,  
 <a name="a32453">Bazzoni, Giambattista, 1803-1850</a>,  
 <a name="a41585">Beach, Belle</a>,  
 <a name="a2050">Beach, Charles Amory</a>,  
 <a name="a40573">Beach, Edward L. (Edward Latimer), 1867-1943</a>,  
 <a name="a37689">Beach, Lewis, 1891-</a>,  
 <a name="a4000">Beach, Rex, 1877-1949</a>,  
 <a name="a31434">Beach, Seth Curtis, 1837-1932</a>,  
 <a name="a25107">Beadle, Charles</a>,  
 <a name="a48948">Beadle, Delos W. (Delos White), 1823-1905</a>,  
 <a name="a49281">Beadnell, H. J. L. (Hugh John Llewellyn), 1874-1944</a>,  
 <a name="a35185">Bealby, J. T. (John Thomas), 1858-</a>,  
 <a name="a5997">Beale, Anne, 1816-1900</a>,  
 <a name="a2684">Beale, Charles Willing, 1845-1932</a>,  
 <a name="a53438">Beale, Dorothea, 1831-1906</a>,  
 <a name="a56092">Beale, Joseph Henry, 1861-1943</a>,  
 <a name="a40353">Beale, Sophia, 1837-1920</a>,  
 <a name="a36716">Beal, F. E. L. (Foster Ellenborough Lascelles), 1840-1917</a>,  
 <a name="a50298">Beal, Merrill D., 1898-1990</a>,  
 <a name="a35288">Beal, Samuel, 1825-1889</a>,  
 <a name="a43169">Beals, Christine</a>,  
 <a name="a31834">Beal, W. J. (William James), 1833-1924</a>,  
 <a name="a56066">Beames, John, 1781?-1853</a>,  
 <a name="a2207">Beames, John, 1837-1902</a>,  
 <a name="a6609">Beamish, Richard Joseph, 1869-1945</a>,  
 <a name="a7994">Bean, C. E. W. (Charles Edwin Woodrow), 1879-1968</a>,  
 <a name="a54974">Bean, Florence O. (Florence Ordway)</a>,  
 <a name="a8087">Beard, Adelia B. (Adelia Belle), 1857-1920</a>,  
 <a name="a43287">Beard, Alice, 1867-1949</a>,  
 <a name="a9326">Beard, Charles, 1827-1888</a>,  
 <a name="a7052">Beard, Charles A. (Charles Austin), 1874-1948</a>,  
 <a name="a8612">Beard, Daniel Carter, 1850-1941</a>,  
 <a name="a43263">Beard, Frank, 1842-1905</a>,  
 <a name="a25511">Beard, Harry</a>,  
 <a name="a35110">Beard, James Carter, 1837-1913</a>,  
 <a name="a34854">Beard, James Franklin, 1919-1989</a>,  
 <a name="a36334">Beard, James Melville</a>,  
 <a name="a48410">Beard, J. C.</a>,  
 <a name="a8086">Beard, Lina, -1933</a>,  
 <a name="a7053">Beard, Mary Ritter, 1876-1958</a>,  
 <a name="a45443">Beard, Patten</a>,  
 <a name="a42492">Beard, Sidney Hartnoll, 1862-1938</a>,  
 <a name="a39547">Beardslee, Clark S. (Clark Smith), 1850-1914</a>,



<a name="a41820">Beardsley, Aubrey, 1872-1898</a>,  
 <a name="a48067">Beardsley, Henry Mahan, 1858-1938</a>,  
 <a name="a45681">Bearne, Edward H.</a>,  
 <a name="a45680">Bearne, Mrs. (Catherine Mary Charlton), -1923</a>,  
 <a name="a55833">Bearse, Clarkson P.</a>,  
 <a name="a38575">Beasley, Frederic W., 1808-1878</a>,  
 <a name="a1521">Beasley, T. D. (Thomas Dykes)</a>,  
 <a name="a43698">Beatson, A. M.</a>,  
 <a name="a32553">Beattie, James, 1735-1803</a>,  
 <a name="a52274">Beattie, William, 1793-1875</a>,  
 <a name="a41322">Beatty, Erkuries, 1759-1823</a>,  
 <a name="a32032">Beatty, Ethel</a>,  
 <a name="a9309">Beatty, John, 1828-1914</a>,  
 <a name="a47392">Beatty, John W. (John Wesley), 1851-1924</a>,  
 <a name="a47702">Beatty, Kenneth James, Sir, 1878-</a>,  
 <a name="a5934">Beatty, William, 1773-1842</a>,  
 <a name="a42346">Beaucé, Jean-Adolphe, 1818-1875</a>,  
 <a name="a40468">Beauchesne, A. de (Alcide), 1804-1873</a>,  
 <a name="a37376">Beaufort d'Hautpoul, Anne Marie, comtesse de, 1763-1837</a>,  
 <a name="a38878">Beaufort, H. L. de (Henri Louis), 1880-1960</a>,  
 <a name="a5567">Beaugrand, Honoré, 1849-1906</a>,  
 <a name="a7962">Beaumarchais, Pierre Augustin Caron de, 1732-1799</a>,  
 <a name="a41881">Beaume, Georges, 1861-</a>,  
 <a name="a36061">Beaumont, Charles, 1929-1967</a>,  
 <a name="a46962">Beaumont, Edouard de, 1821-1888</a>,  
 <a name="a3603">Beaumont, Francis, 1584-1616</a>,  
 <a name="a9921">Beaumont, Grace</a>,  
 <a name="a48205">Beaumont, Greg, 1943-</a>,  
 <a name="a6076">Beaumont, Gustave de, 1802-1866</a>,  
 <a name="a6243">Beaumont, Mary</a>,  
 <a name="a55467">Beaumont, W. M. (William Mardon), 1851-1928</a>,  
 <a name="a46270">Beaunier, André, 1869-1925</a>,  
 <a name="a24974">Beauregard, Gérard de, 1865-</a>,  
 <a name="a9823">Beauregard, G. T. (Gustave Toutant), 1818-1893</a>,  
 <a name="a53122">Beauvilliers, A. B. (Antoine B.), 1754-1817</a>,  
 <a name="a28361">Beauvoir, Roger de, 1806-1866</a>,  
 <a name="a48515">Beavan, Arthur H. (Arthur Henry), 1844-1907</a>,  
 <a name="a4495">Beavan, F. (Frederick), Mrs., 1818-1897</a>,  
 <a name="a55542">Beavan, Hugh J. C.</a>,  
 <a name="a49203">Beaven, James, 1801-1875</a>,  
 <a name="a5943">Beaverbrook, Max Aitken, Baron, 1879-1964</a>,  
 <a name="a8233">Beazley, C. Raymond (Charles Raymond), 1868-1955</a>,  
 <a name="a4288">Bebel, August, 1840-1913</a>,  
 <a name="a34091">Bechdolt, Frederick R. (Frederick Ritchie), 1874-1950</a>,  
 <a name="a31735">Becher, Arthur E., 1877-1960</a>,  
 <a name="a38841">Becher, Johannes Robert, 1891-1958</a>,  
 <a name="a40393">Bechstein, Johann Matthäus, 1757-1822</a>,

<a name="a26033">Bechstein, Ludwig, 1801-1860</a>,  
 <a name="a1617">Bechtel, John Hendricks, 1841-</a>,  
 <a name="a56107">Beck, Amanda K. (Amanda Kathryn), 1870-1937</a>,  
 <a name="a26097">Beck, C. C. (Charles Clarence), 1910-1989</a>,  
 <a name="a48897">Beck, Charles</a>,  
 <a name="a53033">Beck, Clyde, 1912-1986</a>,  
 <a name="a1317">Becke, Louis, 1855-1913</a>,  
 <a name="a53180">Becker</a>,  
 <a name="a26480">Becker, Arthur C.</a>,  
 <a name="a8512">Becker, Bernard Henry, 1833-</a>,  
 <a name="a3877">Becker, Carl Heinrich, 1876-1933</a>,  
 <a name="a1111">Becker, Carl L. (Carl Lotus), 1873-1945</a>,  
 <a name="a40325">Bécker, Jerónimo, 1857-1925</a>,  
 <a name="a46728">Becker, Julius Maria, 1887-1949</a>,  
 <a name="a50608">Becker, Karl Friedrich, 1777-1806</a>,  
 <a name="a53856">Beckerman, Bernard, 1921-1985</a>,  
 <a name="a45100">Becker, Tracy Chatfield, 1855-</a>,  
 <a name="a47154">Beckett, William, 1684-1738</a>,  
 <a name="a53090">Beckford, Peter, 1740-1811</a>,  
 <a name="a806">Beckford, William, 1760-1844</a>,  
 <a name="a44512">Beckingham, Mr. (Charles), 1699-1731</a>,  
 <a name="a3290">Beck, James M. (James Montgomery), 1861-1936</a>,  
 <a name="a52202">Beck, John B. (John Brodhead), 1794-1851</a>,  
 <a name="a726">Beck, L. Adams (Lily Adams), 1862-1931</a>,  
 <a name="a44648">Beckmann, Johann, 1739-1811</a>,  
 <a name="a53753">Beck, Paul W. (Paul Ward), 1876-1922</a>,  
 <a name="a9554">Beckwith, Martha Warren, 1871-1959</a>,  
 <a name="a36490">Becon, Thomas, 1512-1567</a>,  
 <a name="a4395">Becq de Fouquières, L. (Louis), 1831-1887</a>,  
 <a name="a3696">Bécquer, Gustavo Adolfo, 1836-1870</a>,  
 <a name="a42155">Beddard, Frank E. (Frank Evers), 1858-1925</a>,  
 <a name="a9825">Beddoes, Thomas Lovell, 1803-1849</a>,  
 <a name="a1528">Bede, Cuthbert, 1827-1889</a>,  
 <a name="a49319">Bedell, Gregory T. (Gregory Townsend), 1793-1834</a>,  
 <a name="a39416">Bede, the Venerable, Saint, 673-735</a>,  
 <a name="a32158">Bedford, F. D., 1864-1954</a>,  
 <a name="a9263">Bedford, H. Louisa</a>,  
 <a name="a34930">Bedford-Jones, H. (Henry), 1887-1949</a>,  
 <a name="a5429">Bédier, Joseph, 1864-1938</a>,  
 <a name="a36260">Bedini, Silvio A., 1917-2007</a>,  
 <a name="a32224">Bedwell, William, 1561?-1632</a>,  
 <a name="a52231">Bedworth, Thomas, 1764-1815</a>,  
 <a name="a38321">Beebe, Henry S.</a>,  
 <a name="a44555">Beebe, Iola</a>,  
 <a name="a38365">Beebe, Mabel Borton</a>,  
 <a name="a44410">Beebe, Robb, 1891-</a>,  
 <a name="a31644">Beebe, William, 1877-1962</a>,

<a name="a38706">Beecham, John Charles</a>,  
 <a name="a34284">Beecham, Tom, 1926-2000</a>,  
 <a name="a2109">Beecher, Catharine Esther, 1800-1878</a>,  
 <a name="a5208">Beecher, Edward, 1803-1895</a>,  
 <a name="a31487">Beecher, Henry Ward, 1813-1887</a>,  
 <a name="a49735">Beecher, H. W., Mrs., 1813-1897</a>,  
 <a name="a48283">Beecher, William Constantine, 1849-</a>,  
 <a name="a56173">Beechey, Frederick William, 1796-1856</a>,  
 <a name="a56174">Beechey, H. W. (Henry William), 1789?-1862</a>,  
 <a name="a9012">Beech, Franklin</a>,  
 <a name="a24881">Beeching, H. C. (Henry Charles), 1859-1919</a>,  
 <a name="a26482">Beeckman, Ross</a>,  
 <a name="a5916">Beede, Clara Frances McKee</a>,  
 <a name="a42833">Beedham, R. J.</a>,  
 <a name="a55473">Beeg, Marie, 1855-1927</a>,  
 <a name="a36963">Bee, James W.</a>,  
 <a name="a39463">Beekman, A. A. (Anton Albert), 1854-1947</a>,  
 <a name="a37570">Beeks, James C.</a>,  
 <a name="a47958">Beeley, Arthur L. (Arthur Lawton), 1890-</a>,  
 <a name="a44283">Beeman, Herbert</a>,  
 <a name="a46115">Beem, Frances, 1881-1971</a>,  
 <a name="a47860">Been, Johannes Hendrik, 1859-1930</a>,  
 <a name="a42290">Beerbohm, Julius, 1854-1906</a>,  
 <a name="a397">Beerbohm, Max, Sir, 1872-1956</a>,  
 <a name="a7890">Beer-Hofmann, Richard, 1866-1945</a>,  
 <a name="a44158">Beer, Margrieta</a>,  
 <a name="a38750">Beer, Max, 1864-1943</a>,  
 <a name="a4150">Beers, Clifford Whittingham, 1876-1943</a>,  
 <a name="a6329">Beers, Fannie A.</a>,  
 <a name="a4050">Beers, Henry A. (Henry Augustin), 1847-1926</a>,  
 <a name="a38476">Beers, R. W., 1860-</a>,  
 <a name="a34796">Beer, Thomas, 1889-1940</a>,  
 <a name="a51098">Beery, Ray Coppock, 1892-</a>,  
 <a name="a2146">Beesley, Lawrence, 1877-1967</a>,  
 <a name="a3725">Beesly, A. H. (Augustus Henry), 1839-1909</a>,  
 <a name="a46180">Beesly, Edward Spencer, 1831-1915</a>,  
 <a name="a6365">Beeston, Joseph Lievesley, 1859-1921</a>,  
 <a name="a75">Beethoven, Ludwig van, 1770-1827</a>,  
 <a name="a3324">Beeton, Mrs. (Isabella Mary), 1836-1865</a>,  
 <a name="a53445">Beeton, Samuel Orchart, 1831-1877</a>,  
 <a name="a25503">Beets, Adriaan, 1860-1937</a>,  
 <a name="a39628">Beever, Susanna, -1893</a>,  
 <a name="a5055">Begbie, Harold, 1871-1929</a>,  
 <a name="a54091">Beggs, Thomas, 1808-1896</a>,  
 <a name="a37592">Bégis, A. (Alfred), 1829-1904</a>,  
 <a name="a2728">Behn, Aphra, 1640-1689</a>,  
 <a name="a34877">Behnke, Emil, 1836-1892</a>,

<a name="a42589">Behnke, Emil, Mrs., -1920</a>,  
 <a name="a8209">Behnsch, Ottomar, 1813-1869</a>,  
 <a name="a9007">Behrend, Arthur C.</a>,  
 <a name="a55616">Behring, Emil von, 1854-1917</a>,  
 <a name="a44895">Behrmann, A.</a>,  
 <a name="a26278">Beibitz, J. H. (Joseph Hugh), 1868-1936</a>,  
 <a name="a52823">Beijnen, Laurens Reinhart Koolemans, 1852-1879</a>,  
 <a name="a31211">Bein, Alex, 1903-1988</a>,  
 <a name="a25340">Beirão, Mário Pires Gomes, 1890-1965</a>,  
 <a name="a48681">Beirne, Francis F., 1890-</a>,  
 <a name="a6497">Beirt Fhear</a>,  
 <a name="a47821">Béjot, Eugène, 1867-1931</a>,  
 <a name="a52822">Beke, Charles T. (Charles Tilstone), 1800-1874</a>,  
 <a name="a6582">Bekker, Paul, 1882-1937</a>,  
 <a name="a4953">Béland, Henri, 1869-1935</a>,  
 <a name="a6401">Belasco, David, 1853-1931</a>,  
 <a name="a31726">Belcher, Edward, Sir, 1799-1877</a>,  
 <a name="a46610">Belcher, George Frederick Arthur, 1875-1947</a>,  
 <a name="a42605">Belcher, Joseph, 1794-1859</a>,  
 <a name="a35855">Belch, William</a>,  
 <a name="a28363">Belcourt, N. A. (Napoléon-Antoine), 1860-1932</a>,  
 <a name="a46047">Belding, David Lawrence, 1884-1970</a>,  
 <a name="a31239">Belgioioso, Cristina, 1808-1871</a>,  
 <a name="a49856">Belgioioso, Carlo, 1815-1881</a>,  
 <a name="a47351">Belgium. Commission d'enquête sur la violation des règles du droit des gens, des lois et des coutumes de la guerre</a>,  
 <a name="a38951">Belgrave, Dalrymple J.</a>,  
 <a name="a26622">Belisle, D. W. (David W.)</a>,  
 <a name="a40245">Belknap, Helen Olive</a>,  
 <a name="a48508">Bell, Alexander Graham, 1847-1922</a>,  
 <a name="a327">Bellamy, Edward, 1850-1898</a>,  
 <a name="a50472">Bellamy, Elizabeth W. (Elizabeth Whitfield), 1837-1900</a>,  
 <a name="a40406">Bellamy, Thomas, of Guernsey</a>,  
 <a name="a45258">Bell, Arthur George, 1849-1916</a>,  
 <a name="a31994">Bellasis, Edward, 1852-1922</a>,  
 <a name="a48677">Bellasis, E. S. (Edward Skelton), 1855-1945</a>,  
 <a name="a33309">Bell, Aubrey F. G. (Aubrey Fitz Gerald), 1882-1950</a>,  
 <a name="a1801">Bell, Clara, 1834-1927</a>,  
 <a name="a5034">Bell, Clive, 1881-1964</a>,  
 <a name="a45330">Bell, Edward, 1844-1926</a>,  
 <a name="a34410">Bell, Edward Allen, 1884-1959</a>,  
 <a name="a47993">Bellenger, Georges</a>,  
 <a name="a39551">Bell, Ernest, 1851-1933</a>,  
 <a name="a31783">Bell, Ernest A. (Ernest Albert), 1865-1928</a>,  
 <a name="a52782">Bellett, George</a>,  
 <a name="a40487">Bellett, J. G. (John Gifford), 1795-1864</a>,  
 <a name="a56074">Bellew, Francis John, 1799-1868</a>,

```

<a name="a40543">Bellew, Frank, 1828-1888</a>,
<a name="a37778">Bellew, Molly K.</a>,
<a name="a26738">Bell, Florence Eveleen Eleanore Olliffe, Lady, 1851-1930</a>,
<a name="a43707">Bell, F. McKelvey (Frederick McKelvey), 1878-1931</a>,
<a name="a48455">Bell, Frank, 1905-2002</a>,
<a name="a9248">Bell, George, 1814-1890</a>,
<a name="a44418">Bell, George W. (George William), 1840?-1907</a>,
<a name="a46514">Bell, Gertrude Lowthian, 1868-1926</a>,
<a name="a3166">Bell, Henry, Captain</a>,
<a name="a38621">Bell, Henry Glassford, 1803-1874</a>,
<a name="a7425">Bellinger, Martha Idell Fletcher, 1870-1960</a>,
<a name="a55958">Bellings, Richard, -1677</a>,
...]
```

Pogojnega stavka pri sestavljanju slovarja se lahko znebimo.

```

[24]: authors = {}
      for link in soup.find_all("a", {"name": True}):
          authors[link.string] = link.attrs["name"]
```

Ali pa napišemo kar

```

[25]: authors = {link.string: link.attrs["name"] for link in soup.find_all("a",
    ↪ {"name": True})}
```

Pridobivanje podatkov s spletnih strani je lahko enostavno, če znamo in če so prijazno sestavljene...

### 0.3.4 Še malo branja

Zdaj si zadajmo težjo nalogo. Dobimo avtorja ali, da bo preprosteje, kar njegovo interno oznako - za Babbaga, recimo a556. Naloga je poiskati vsa njegova dela, objavljena na Gutenbergu.

Če jih vidimo na spletni strani, so očitno v dokumentu, le do njih moramo znati priti. Vrnemo se v brskalnik, v spodnjem delu odpremo elemente pod h2.

Vidimo strukturo? Začnemo pri a. Njegov oče je h2. Brat h2-ja je ul. ul-jevi otroci vsebujejo posamična dela.

Najprej torej zgrabimo Babbaga. Ker vemo, da je na strani le en a, katerega name je enak a556, namesto find\_all (čez katerega bi morali z zanko), pokličemo kar find, ki vrne prvi - in v tem primeru edini - element, ki ustreza podanim argumentom.

```

[26]: link = soup.find("a", {"name": "a556"})

link
```

```

[26]: <a name="a556">Babbage, Charles, 1791-1871</a>
```

Njegov oče je shranjen v parent.

```
[27]: link.parent
```

```
[27]: <h2><a name="a556">Babbage, Charles, 1791-1871</a> <a href="#a556" title="Link  
to this author">¶</a></h2>
```

Njegov brat je `next_sibling`.

```
[28]: link.parent.next_sibling
```

```
[28]: '\n'
```

Eh. Ker je v HTMLju tu vmes znak za prazno vrstico (isto smo videvali tudi v XML, nismo?), je brat ta prazna vrstica. Najbrž bi bilo potrebno vzeti naslednjega brata?

```
[29]: link.parent.next_sibling.next_sibling
```

```
[29]: <ul>  
<li class="pgdbxlink"><a  
href="https://en.wikipedia.org/wiki/Charles_Babbage">en.wikipedia</a></li>  
<li class="pgdbetext"><a href="/ebooks/71292">The calculating engine</a>  
(English) (as Author)</li>  
<li class="pgdbetext"><a href="/ebooks/4238">On the Economy of Machinery and  
Manufactures</a> (English) (as Author)</li>  
<li class="pgdbetext"><a href="/ebooks/57532">Passages from the Life of a  
Philosopher</a> (English) (as Author)</li>  
<li class="pgdbetext"><a href="/ebooks/1216">Reflections on the Decline of  
Science in England, and on Some of Its Causes</a> (English) (as Author)</li>  
</ul>
```

Da. Lahko pa smo previdni in se premaknemo za toliko bratov, dokler ne pridemo do `ul`.

```
[30]: ul = link.parent.next_sibling  
while ul.name != "ul":  
    ul = ul.next_sibling
```

Tako smo mimogrede spoznali še en atribut: `name`. Vsak element ima `name`, ki vsebuje ime značke. `link`, recimo, je `a`.

```
[31]: link.name
```

```
[31]: 'a'
```

Tu gremo naprej po bratih, dokler ne pridemo do `ul`. (Če bi šlo zares, bi bil vaš izkušeni profesor, ki je doživel že veliko hudega s stranih postavljalcev spletnih strani še malo bolj previden in bi, za začetek, preverjal, da `ul.name` slučajno ni že `h2`, kar bi pomenilo, da smo že pri naslednjem avtorju in da ta, ki ga preiskujemo, nima objavljenih nobenih del.)

Sicer pa je iskanje najbližjega brata z določeno značko pogosta reč, zato lahko gornjo zanko nadomestimo s preprostim klicem `find_next_sibling`:

```
[32]: ul = link.parent.find_next_sibling("ul")
      ul
```

```
[32]: <ul>
      <li class="pgdbxlink"><a
      href="https://en.wikipedia.org/wiki/Charles_Babbage">en.wikipedia</a></li>
      <li class="pgdbetext"><a href="/ebooks/71292">The calculating engine</a>
      (English) (as Author)</li>
      <li class="pgdbetext"><a href="/ebooks/4238">On the Economy of Machinery and
      Manufactures</a> (English) (as Author)</li>
      <li class="pgdbetext"><a href="/ebooks/57532">Passages from the Life of a
      Philosopher</a> (English) (as Author)</li>
      <li class="pgdbetext"><a href="/ebooks/1216">Reflections on the Decline of
      Science in England, and on Some of Its Causes</a> (English) (as Author)</li>
      </ul>
```

Če želimo iskati nazaj, po prejšnjih bratih, kličemo `find_prev_sibling`.

Po tej ali po oni poti torej pridemo do `ul` z deli Babbagea.

Dela so znotraj elementov `li`. `li` vsebuje `a` in nizi znotraj tega so dela tega avtorja.

```
[33]: for li in ul.find_all("li"):
      print(li.find("a").string)
```

```
en.wikipedia
The calculating engine
On the Economy of Machinery and Manufactures
Passages from the Life of a Philosopher
Reflections on the Decline of Science in England, and on Some of Its Causes
```

### 0.3.5 HTML v resnici

Tole je bil, jasno, šolski primer. Gutenbergove strani so prijazno preproste. V resnici imamo lahko z branjem veliko več zafrkavanja. Idejo pa smo videli.

## 0.4 Regularni izrazi

Imena avtorjev vsebujejo tudi letnici rojstva in smrti. Vendar ne vsa. Kako izvleči letnico, da bi jo imeli shranjeno in bi z njo kaj koristnega počeli? Ali pa jo, recimo, izpustili ob izpisu.

Verjetno bi se dalo kaj načarati s `split`-om, vendar bomo tu pokazali drug, močnejši pristop. Letnica ima določeno obliko, vzorec, ki ga je preprosto opisati: vsebuje nekaj števk, nato minus in še nekaj števk. "Nekaj" je lahko tudi 0, če letnica ni znana. Če bi bil natančni, bi dodali še, da so številke največ štiri, vendar ta omejitev najbrž ne bo potrebna.

Da bi bil primer primerno zahteven, lahko števkom sledi še vprašaj, če glede letnice nismo prepričani in je bil možakar (ali možakarica) morda ojen ali umrl tudi kdaj prej ali kasneje.

Vzorec te oblike opišemo z regularnim izrazom `\d*\??-\d*\??`.

Res. Takole iz "Tannenbaum, Samuel A. (Samuel Aaron), 1874?-1948" izvlečemo, kdaj se je rodil in umrl Tannenbaum

```
[34]: import re

re.search(r"\d*??-\d*??", "Tannenbaum, Samuel A. (Samuel Aaron), 1874?-1948").
    ↪group()
```

```
[34]: '1874?-1948'
```

Če čmo, pa lahko dobimo tudi vsako številko posebej.

```
[35]: rojstvo, smrt = re.search(r"(\d*)??-(\d*)??", "Tannenbaum, Samuel A. (Samuel_
    ↪Aaron), 1874?-1948").groups()
```

```
[36]: rojstvo
```

```
[36]: '1874'
```

```
[37]: smrt
```

```
[37]: '1948'
```

Je bil *teaser* v redu? Nas zanima? Potemtakem moramo najprej spoznati sintakso regularnih izrazov, potem pa še funkcije v Pythonu za delo z njimi.

#### 0.4.1 Sintaksa regularnih izrazov

Kar se bomo naučili tu, velja v splošnem, ne le v Pythonu. Regularni izraz so jezik za opis vzorcev, ki ga poznajo vsi splošno uporabni programski jeziki, z regularnimi izrazi pa lahko iščemo tudi po besedilih v urejevalnikih besedil.

Regularni izrazi so sestavljeni iz znakov, ki jih želimo poiskati (v gornjem primeru je bil to samo -) in znakov s posebnim pomenom. Tule je (nepopoln) seznam:

- `.`: katerikoli znak
- `\w`: katerakoli črka ali številka
- `\d`: katerakoli številka
- `\s`: bel prostor (presledek, tabulator, nova vrstica)
- `^`: začetek niza
- `$`: konec niza.

Znaki imajo tudi negacije: `\W` je karkoli, kar ni črka ali številka, `\D` je karkoli, kar ni številka in `\S` je karkoli, kar ni prazen prostor.

Poglejmo nekaj preprostih primerov

- `1.pa` je lahko `1ipa` ali `1opa`, lahko pa tudi `1rpa`, ali tudi `11pa`, `1)pa` ali `1 pa`. Pika je lahko karkoli.
- `1\wpa` je podoben, vendar izloči nealfanumerične znake - med gornjimi primeri prepove `1)pa` ali `1 pa`.



- $\sim 1 \backslash wpa$  bo ujel isto, vendar dodatno zahteva še, da se podniz, ki se ujema z iskanim vzorcem,  $1 \backslash wpa$  nahaja na začetku preiskovanega niza.
- $1.p.$  je  $lipa$ ,  $lipe$ ,  $lipi$ ,  $lipo$ , pa tudi  $lopa$ ,  $lope$ ,  $lopi$ ,  $lopo$  in, seveda, tudi  $lipr$ ,  $lrpr$  ter celo  $1(p)$ ,  $1)p^{\sim}$  in  $1-p$ .
- $1 \dots$  je vse, kar se začne z  $1$ .
- $\dots$  je vsako zaporedje štirih znakov.

Očitno sta tako  $\sim$  kot  $\backslash w$  preveč liberalna: dobro bi bilo, če bi lahko našteli znake, ki jih dovolimo. Za  $1.pa$  bi lahko dovolili  $e$ ,  $i$ ,  $o$  in  $u$ . Kadar želimo naštetih dovoljene znake, jih zapremo v oglate oklepaje:

- $1[eiou]pa$  je lahko  $lepa$ ,  $lipa$ ,  $lopa$  ali  $lupa$ . In nič drugega.
- $1[eiou]p[aeio]$  pa je vse gornje v prvih štirih sklonih.

Če bi takoj za  $[$  dali znak  $\sim$ , bi regularni izraz lovil vse **razen** znakov v oklepajih. Torej črke in številke, ki niso samoglasniki.

Kaj pa,  $lip$ ? Lahko povemo, da je nek znak lahko prisoten ali pa tudi ne?

- $*$  dovoli, da se reč pred zvezdico poljubnokrat ponovi.
- $+$  prav tako, vendar hoče, da se pojavi vsaj enkrat.
- $?$  pravi, da se sme pojaviti največ enkrat.

Par primerov:

- $1e+pa$  je  $lepa$ ,  $leepa$ ,  $leeepa$ ,  $leeeepa$  ali še bolj  $lepa$ .
- $1e*pa$  je lahko vse gornje, pa še  $lpa$  zraven.
- $1epa?$  pa je lahko  $lepa$  ali  $lep$ .

Vsi trije,  $*$ ,  $+$  in  $?$  se ne nanašajo nujno pa črko.

- $1[eiou]+pa$  je lahko tudi  $1eieoieoieoeiioiepa$
- $1.+pa$  je lahko  $18umv9 jv \&BT G\#)GUJI pa$ . Važno je, da se začne z  $1$  in konča s  $pa$ , vmes pa je lahko čisto karkoli - mora pa biti vsaj ena reč.

Z okroglimi oklepaji lahko združujemo dele regularnega izraza v skupine.

- $1(ep)*a$  je  $la$ ,  $lepa$ ,  $lepepa$ ,  $lepepepa$  ...
- $1([eiou]p)*a$  je lahko, recimo  $lepapapipopopopupa$ .

Kaj pa, kadar želimo, da izraz vsebuje piko? Torej zares piko, ne karkoli. Kako povemo, da s piko mislimo piko? Ali z vprašajem vprašaj? Z oklepajem oklepaj? Preden postavimo vzvratno poševnico.

- $1.p \backslash.$  je  $lep.$ ,  $lop.$ ,  $1)p.$  ... Pika na koncu je zares pika.

Kaj pa, če želimo vzvratno poševnico? V tem primeru napišemo dve poševnici. To že obvladamo - enako je bilo, če je kak trmoglav uporabnik Windowsov na vsak način hotel uporabljati vzvratne poševnice v opisih poti.

Zdaj se lahko vrnemo k regularnemu izrazu za letnice:  $\backslash d* \backslash ?? - \backslash d* \backslash ??$ .

- $\backslash d$  hoče števko
- $\backslash d*$  pravi, da je števk lahko tudi več. Morda celo nobena.
- $\backslash d* \backslash ?$  pravi, da mora slediti vprašaj (zaresen, dobesedni vprašaj, saj smo predenj postavili  $\backslash$ )

- `\d*\\??` postavi vprašaj pod vprašaj: vprašaj lahko je, lahko pa ga tudi ni.
- `\d*\\??-`: kot je rekel Freud, je cigara včasih samo cigara; minus je tu samo minus.
- `\d*\\??-\\d\\??`: doda še vzorec za letnico smrti.

## 0.4.2 Regularni izrazi v Pythonu

`findall` Začnimo z nizom.

```
[38]: s = "Pred lipo je stala lepa lopa. Z lupo bi lahko iskal lepotne napake, a še  
      ↪tak lopov jih zlepa ne bi našel."
```

Vse lope bi se lahko lotili iskati z

```
[39]: import re

      re.findall("lop.", s)
```

```
[39]: ['lopa', 'lopo']
```

Lahko bi iskali tudi lepa (lepo, lepi...).

```
[40]: re.findall("lep.", s)
```

```
[40]: ['lepa', 'lepo', 'lepa']
```

‘`re.findall`’ preprosto vrne vse podnize, ki ustrezajo regularnemu izrazu. Ta del se nam je posrečil. Vzorec - manj. Lopa je omenjena le enkrat; tisti "lopo" je od "lopova". Prav tako je zadnji "lepa" od "zlepa".

Če želimo dobiti le cele besede, bomo zapovedali, da spredaj in zadaj ne sme biti ne-črk.

```
[41]: re.findall("\\Wlop\\.\\W", s)
```

```
[41]: [' lopa. ']
```

```
[42]: re.findall("\\Wlep\\.\\W", s)
```

```
[42]: [' lepa ']
```

Znebili smo se lopova, dobili pa neke presledke in pike. Pike? A ni mišljeno, da pika ni pika, temveč ... Ja, brez skrbi. Tista pika v vzorcu se je ujela z a-jem. `\\W` pa s piko v nizu. Tako kot presledka. Ker smo rekli, da mora vzorec vsebovati tudi kaj, kar ni črka, smo pač dobili še to.

Zdaj nas čaka kup detajlov. Prvi: **bojte se vzvratnih poševnic**. Vzvratne poševnice imajo svoj pomen. Vemo, `\\n` je znak za novo vrstico. `\\W` na našo srečo nima posebnega pomena, sicer že gornje ne bi delalo.

Vsakič, ko v nizu v Pythonu uporabljamo vzvratne poševnice in hočemo dobiti le vzvratne poševnice, jih moramo podvojiti. Torej ne `\\Wlep\\.\\W` temveč `\\Wlep\\.\\W`. V regularnih izrazih to postane zoprno, ker moramo včasih napisati dvojne poševnice v izrazu (glej zgoraj) in ko vsako podvojimo, dobimo četverne poševnice. Zato bomo regularne izraze raje pisali z r-nizi. Če pred

narekovaj dopišemo `r`, bodo vzvratne poševnice samo vzvratne poševnice. (Črka `r` tu ne pomeni *regular expression* temveč *raw string*; takšne nize lahko uporabljamo tudi drugje, ne le v regularnih izrazih.) Pravilno je torej

```
[43]: re.findall(r"\Wlep.\W", s)
```

```
[43]: [' lepa ']
```

Tu ni razlike, v splošnem pa bo.

Kaj pa bomo storili s presledki? Preden se jih lotimo, opozorimo še na nekaj:

```
[44]: s2 = "Lepa lopa je stala pod lipo."
      re.findall(r"\Wlep.\W", s2)
```

```
[44]: []
```

Besede "Lepa" na začetku ni ujel, najprej, zato, ker je napisana z veliko začetnico. Funkciji `re.findall` lahko dodamo *zastavice*, s katerimi spremenimo njeno delovanje in ena od njih je `re.IGNORECASE`.

```
[45]: re.findall(r"^Wlep.\W", s2, re.IGNORECASE)
```

```
[45]: []
```

Še vedno ni Lepa. Zdaj, očitno, zato, ker pred besedo ni nečesa, kar ni črka - preprosto zato, ker pred njo sploh ni ničesar. Vzorec bo potrebno preoblikovati tako, da bomo dovolili, da je pred besedo bodisi nečrka bodisi začetek niza.

Da ne doktoriramo iz vzorcev, preprosto prilepimo presledek na začetek in konec niza.

```
[46]: re.findall(r"\Wlep.\W", " " + s2 + " ", re.IGNORECASE)
```

```
[46]: [' Lepa ']
```

Zdaj pa se znebimo presledkov v najdenem nizu: če vzorec vsebuje skupino, `findall` ne bo vrnil celotnega podniza temveč le, kar je v skupini.

```
[47]: re.findall(r"W(lep.)\W", s)
```

```
[47]: ['lepa']
```

Za konec polovimo še vse, kar je lepo lupa ali lupa.

```
[48]: re.findall(r"W(l[eiou]p[aieo])\W", s)
```

```
[48]: ['lipo', 'lepa', 'lupo']
```

Zdaj pa poskusimo tole: radi bi vse besede, ki se začnejo z lep-, lip-, lop- ali lup-.

```
[49]: re.findall(r"\W(l[eiou]p\w*)", s)
```

```
[49]: ['lipo', 'lepa', 'lopa', 'lupo', 'lepotne', 'lopov']
```

Vzorec je zdaj takšen, da se mora začeti z nečem, kar ni črka (vendar to ni del skupine), sledi l, nato e, i, o ali u, potem p in potem poljubno število (lahko tudi 0) črk.

Kaj pa besede, ki vsebujejo l[eiou]p, spredaj in zadaj pa so lahko poljubne druge črke?

```
[50]: re.findall(r"\w*l[eiou]p\w*", s)
```

```
[50]: ['lipo', 'lepa', 'lopa', 'lupo', 'lepotne', 'lopov', 'zlepa']
```

**Požrešni operatorji** Glede tega vas je potrebno posvariti: kaj vrne l.\*pa? Nepričakovano, tole: POVEJ za \*?

```
[51]: re.findall(r"l.*pa", s)
```

```
[51]: ['lipo je stala lepa lopa. Z lupo bi lahko iskal lepotne napake, a še tak lopov  
jih zlepa']
```

Python ima prav. Gre za niz, ki se začne z l in konča s pa. Najbrž pa smo pričakovali krajšega, ne?

Operatorja \* in + sta požrešna: vzameta, kolikor je mogoče - vendar seveda tako, da je na konec še vedno mogoče dodati pa (ali karkoli že). Pogosto si predstavljamo, da bosta vzela *najkrajši* možni niz. To dosežemo tako, da za \* oziroma + dodamo vprašaj. \*? in +? sta torej nepožrešni različici zvezdice in plusa.

```
[52]: re.findall(r"l.*?pa", s)
```

```
[52]: ['lipo je stala lepa',  
      'lopa',  
      'lupo bi lahko iskal lepotne napa',  
      'lopov jih zlepa']
```

To seveda spet ni skladno s pričakovanji, vendar vidimo razliko: začne pri l in potem doda, kolikor je treba, da prida do naslednjega pa. Rezultat je sicer neželen, vendar vsaj zabaven. :)

Gornjemu bi se seveda izognili, če bi .\*? zamenjali z \w\*:

```
[53]: re.findall(r"l\w*pa", s)
```

```
[53]: ['lepa', 'lopa', 'lepa']
```

Mimogrede pokažimo še, kako iz besedila izvlečemo vse besede (nekaj takega, vendar na bolj zapleten način, je zahtevala domača naloga Miklavževa pisma).

```
[54]: print(re.findall(r"\w+", s))
```

```
['Pred', 'lipo', 'je', 'stala', 'lepa', 'lopa', 'Z', 'lupo', 'bi', 'lahko',  
'iskal', 'lepotne', 'napake', 'a', 'še', 'tak', 'lopov', 'jih', 'zlepa', 'ne',  
'bi', 'našel']
```

Regularni izrazi imajo še veliko različnih opcij in trikov, zapletov in rešitev. V tem kratkem uvodu pač ne moremo naštetih vseh; to bi v teoriji zahtevalo več predavanj, v praksi pa predvsem veliko izkušenj.

**search in match (in finditer)** Doslej smo se ukvarjali le z vzorci in iskanjem podnizov, ki jim ustrezajo. Z regularni izrazi v Pythonu je možno početi še veliko več. Vzorci bodo pogosto sestavljeni iz več delov, skupin, in običajno nas bo zanimala njihova vsebina.

Spomnimo se izraza, s katerim smo iskali letnice rojstev in smrti, `\d*\??-\d*\??`. Ta ima očitno dva dela, letnico rojstva in letnico smrti. Lahko ju tudi uradno označimo kot skupini.

```
[55]: author = "Tannenbaum, Samuel A. (Samuel Aaron), 1874?-1948"  
  
re.findall(r"(\d*)(\??)-(\d*)(\??)", author)
```

```
[55]: [('1874', '?', '1948', '')]
```

Če vzorec vsebuje več skupin, `findall` ne vrne seznama nizov temveč seznam terk. To bi bilo dovolj, da bi lahko razbrali letnico rojstva in smrti in - ker smo zvito zaprli v svojo skupino še vprašaj, namesto da bi ga pridružili števkom - imamo še ločen indikator, ki pove, ali je letnica zanesljiva ali ne.

Kaj, če bi hoteli spremeniti izpis - recimo odstraniti letnice iz imena avtorja? `findall` nam žal pove le, *kaj* je našel, ne pa tudi *kje*. Po drugi strani pa: `findall` vrne seznam, čeprav tule prav dobro vemo, da bo ta seznam vseboval kvečjemu en element.

Za take primere sta uporabnejši metodi `search` in `match`.

```
[56]: re.search(r"(\d*)(\??)-(\d*)(\??)", author)
```

```
[56]: <re.Match object; span=(38, 48), match='1874?-1948'>
```

```
[57]: re.match(r"(\d*)(\??)-(\d*)(\??)", author)
```

Tule, očitno, bolj `search`. :) Razlika je v tem, da `match` zahteva, da se vzorec pojavi na začetku niza, `search` pa ne.

Rezultat, ki ga vrne `search`, je `re.Match`: objekt, ki vsebuje več podatkov o tem, kaj je ujel vzorec.

```
[58]: mo = re.search(r"(\d*)(\??)-(\d*)(\??)", author)
```

Najprej: `re.search` lahko vrne `None`, če ne najde ničesar. Klicu funkcije bo zato tipično sledil `if`, ki bo poskrbel za ta scenarij.

Metoda `group` vrne vsebino posamezne skupine.

```
[59]: mo.group(1)
```

[59]: '1874'

```
[60]: mo.group(3)
```

[60]: '1948'

Ali več skupin.

```
[61]: mo.group(1, 3)
```

[61]: ('1874', '1948')

Skupine začnemo šteti z 1, ker 0 predstavlja celoten ujeti podniz.

```
[62]: mo.group(0)
```

[62]: '1874?-1948'

Ker je to natančno tisto, kar običajno potrebujemo, je 0 tudi privzeta vrednost. Celoten niz torej dobimo z

```
[63]: mo.group()
```

[63]: '1874?-1948'

Vse podskupine - tisto, kar bi vrnil `findall` - pa dobimo z `groups`.

```
[64]: mo.groups()
```

[64]: ('1874', '?', '1948', '')

Ker je skupin lahko veliko in jih je zoprno šteti, jih lahko tudi poimenujemo. To sicer zaplete izraz, a poenostavi delo z njim. Skupine namreč poimenujemo tako, da (...) zamenjamo z (?P<ime>...).

```
[65]: mo = re.search(r"(?P<born>\d*)(?P<bcertain>\??)-(?P<died>\d*)(?P<dcertain>\??  
↪)", author)
```

Zdaj lahko skupine naslavljamo z imeni, ne le indeksi.

```
[66]: mo.group("born")
```

[66]: '1874'

```
[67]: mo.group("died")
```

[67]: '1948'

Ali pa dobimo kar slovar skupin.

```
[68]: mo.groupdict()
```

```
[68]: {'born': '1874', 'bcertain': '?', 'died': '1948', 'dcertain': ''}
```

Za skupino lahko izvemo, kje v izvirnem nizu se začne oziroma konča. Ali oboje.

```
[69]: mo.start()
```

```
[69]: 38
```

```
[70]: mo.end()
```

```
[70]: 48
```

```
[71]: mo.span()
```

```
[71]: (38, 48)
```

Dodamo lahko indeks ali ime skupine.

```
[72]: mo.span("born")
```

```
[72]: (38, 42)
```

Vzemimo zdaj našega Tannenbauma, shranimo letnici njegovega rojstva in smrti v ločeni spremenljivki ter ju odstranimo iz niza, tako da bo v njem ostalo le ime avtorja.

```
[73]: author = "Tannenbaum, Samuel A. (Samuel Aaron), 1874?-1948"

mo = re.search(r", (?P<born>\d*)(?P<bcertain>\??)-(?P<died>\d*)(?P<dcertain>\??\r\n)", author)

if mo:
    born, died = mo.group("born", "died")
    author = author[:mo.start()]
else:
    born = died = ""

author
```

```
[73]: 'Tannenbaum, Samuel A. (Samuel Aaron)'
```

```
[74]: born
```

```
[74]: '1874'
```

```
[75]: died
```

```
[75]: '1948'
```

**sub in split** Nizi imajo metodo **replace**, s katero zamenjamo določen podniz z drugim. Regularnih izrazi imajo metodo **sub**, ki počne isto, le da niz, ki ga je potrebno zamenjati, podamo z regularnim izrazom.

```
[76]: s
```

```
[76]: 'Pred lipo je stala lepa lopa. Z lupo bi lahko iskal lepotne napake, a še tak  
lopov jih zlepa ne bi našel.'
```

```
[77]: re.sub("l.p.", "hišo", s)
```

```
[77]: 'Pred hišo je stala hišo hišo. Z hišo bi lahko iskal hišotne napake, a še tak  
hišov jih zhišo ne bi našel.'
```

To je seveda narobe. Lipo zamenjajmo s hišo, lepa pa bi bilo treba očitno zamenjati s heša. Storimo tako.

```
[78]: re.sub("l(.)p(.)", r"h\g<1>š\g<2>", s)
```

```
[78]: 'Pred hišo je stala heša hoša. Z hušo bi lahko iskal hešotne napake, a še tak  
hošov jih zheša ne bi našel.'
```

Preprosto: v vzorcu smo označili skupine in se v zamenjavi sklicali nanje.

Kaj pa tole: imamo niz, ki vsebuje neka števila in vsa bi radi povečali za 1. To zahteva nekaj računanja, zato bo potrebno napisati funkcijo.

```
[79]: def increase1(mo):  
      return str(int(mo.group()) + 1)
```

```
[80]: re.sub(r"\d+", increase1, "Vzamemo 5 jajc in 6 litrov vode, pomešamo in dodamo  
↪200 g sladkorja.")
```

```
[80]: 'Vzamemo 6 jajc in 7 litrov vode, pomešamo in dodamo 201 g sladkorja.'
```

In za konec še **split**. Niz ima metodo **split**, ki prejme ločilo, po katerem naj deli niz. Ločilo je vedno le niz. Regularni izrazi imajo metodo **split**, ki prejme regularni izraz. Razbijmo besedo glede na samoglasnike.

```
[81]: re.split("[aeiou]", "samoglasniki")
```

```
[81]: ['s', 'm', 'gl', 'sn', 'k', '']
```

```
[82]: re.split("(?:[aeiou])", "samoglasniki")
```

```
[82]: ['s', 'm', 'gl', 'sn', 'k', '']
```

(Medklic: če hočemo dobiti zloge - v smislu kombinacij črk, ki se končajo s samoglasnikom, potem to ni **split** temveč **findall**:



```
[83]: re.findall("[^aeiou]*[aeiou]", "samoglasniki")
```

```
[83]: ['sa', 'mo', 'gla', 'sni', 'ki']
```

Konec medklica.)

## 0.5 Zajem podatkov iz besedil

Na tem predavanju smo se bežno dotaknili teme, ki zahteva veliko znanja in izkušenj ter še več potrpljenja: pridobivanja podatkov iz dokumentov, ki v osnovi niso bili namenjeni temu, da bi iz njih (avtomatsko) pridobivali podatke. HTML so v osnovi namenjeni branju, prosta besedila pa sploh. Ker so strani HTML navadno oblikovane in ker so pogosto sestavljene avtomatsko (sploh, če podatki prihajajo iz baze), smemo upati, da bo oblikovanje dovolj pregledno in konsistentno, da bo mogoče na podlagi značk prepoznati dele, ki vsebujejo podatke, ki jih iščemo. Znotraj njih si bomo pogosto lahko pomagali z regularnimi izrazi.

Stran, ki smo jo videli tu, je preprosta. V praksi ne bo vedno tako. In, še huje, v praksi se strani spreminjajo in če bomo mukoma pripravili program za zajem podatkov z neke strani, nam nihče ne garantira, da bo že prihodnji teden vse drugače in začeti bo potrebno znova. Kadar je mogoče priti do podatkov v berljivi obliki na kak drug način, je to vedno boljša opcija. Sicer pa - veliko sreče. :)