

```
In [ ]: Crawling + Scrapping
: <a> : 어느 영역(속성, 구조 - 부모,조상)
: Focused Crawling(Depth, Domain, 영역-tag,attributes)
: Response.headers['content-type'] -> text/html, image/*
=> DHTML(AJAX - XHR)
```

```
In [ ]: https://pythonscraping.com/pages/javascript/ajaxDemo.html
```

```
In [1]: from requests import get
resp = get('https://pythonscraping.com/pages/javascript/ajaxDemo.html')
# DOM - Step1
```

```
In [3]: print(resp.text)

<html>
<head>
<title>Some JavaScript-loaded content</title>
<script src="../../js/jquery-2.1.1.min.js"></script>

</head>
<body>
<div id="content">
This is some content that will appear on the page while it's loading. You don't ca
re about scraping this.
</div>

<script>
$.ajax({
    type: "GET",
    url: "loadedContent.php",
    success: function(response){

        setTimeout(function() {
            $('#content').html(response);
        }, 2000);
    }
});

function ajax_delay(str){
    setTimeout("str",2000);
}
</script>
</body>
</html>
```

```
In [4]: from requests import get
resp = get('https://pythonscraping.com/pages/javascript/loadedContent.php')
resp.text
# Data - Step2
```

```
Out[4]: 'Here is some important text you want to retrieve! <p><button id="loadedButton">A
button to click!</button>'
```

```
In [5]: resp = get('https://brunch.co.kr/search', params={'q':'한소희'})
```

```
In [6]: resp.status_code, resp.reason, resp.headers
```

```
Out[6]: (200,
        '',
        {'Date': 'Mon, 20 Mar 2023 00:40:55 GMT', 'Content-Type': 'text/html; charset=utf-8', 'Transfer-Encoding': 'chunked', 'Connection': 'keep-alive', 'Content-Language': 'en-US', 'Strict-Transport-Security': 'max-age=15724800; includeSubDomains'})
```

```
In [7]: from bs4 import BeautifulSoup
dom = BeautifulSoup(resp.text, 'html.parser')
```

```
In [8]: dom.select('#resultArticle')
```

```
Out[8]: [<div class="search_result" id="resultArticle"></div>]
```

```
In [12]: dom.select_one('form').attrs
```

```
Out[12]: {'action': '/search', 'method': 'get'}
```

```
In [18]: for tag in dom.select('form > input[name]'):
        print(tag.attrs['name'], tag.attrs['value'])
```

```
q 한소희
profileId
q 한소희
type article
```

```
In [19]: from urllib.parse import parse_qs
parse_qs('q=%ED%95%9C%EC%86%8C%ED%9D%AC&page=1&pageSize=20&highlighter=y&escape=y&sortBy=accu')
```

```
Out[19]: {'q': ['한소희'],
          'page': ['1'],
          'pageSize': ['20'],
          'highlighter': ['y'],
          'escape': ['y'],
          'sortBy': ['accu']}
```

```
In [31]: from requests.compat import urljoin

headers = {
    'user-agent': 'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.21 Safari/537.36'
}

url = 'https://api.brunch.co.kr/v1/search/article'
params = {
    'q': '한소희',
    'page': '1',
    'pageSize': '20',
    'highlighter': 'y',
    'escape': 'y',
    'sortBy': 'accu'
}
```

```
In [34]: resp = get(url, params=params)
```

```
In [39]: from html import unescape

for li in resp.json()['data']['list']:
    print(unescape(li['title']))
```

날것의 한소희! - 드라마 <마이네임> 리뷰
 네오 팜파탈의 아우라를 지닌 한소희 - 한소희 said "My Name is Neo Femme Fatale!"
 나의 중고차 판매기 -1 - 왜 헤이딜러는 김혜수, 한소희가 광고할까?
 그래피티, 함께라는 이름으로 - HBAF - 한소희 X 바프 Graffiti by LEODAV
 [명대사]드라마, 알고 있지만. - <송블리의 한 줄 명대사중계> | 송강, 한소희.
 "저기 한소희 씨, 그 차 나이가 더 많아요" - 로터스 에스프리 1988년형
 한소희가 곱슬머리면 좋겠다.
 꼭 그래야만 했습니까? - feat. 한소희 배우의 엄마를 보고
 [하루의기적] 한소희로 시작해서 나로 끝나는 글
 다시 태어난다면 - 전지현도 아니고 한소희도 아니다
 한소희는 연기력을 쌓은 다음 편만한 멜로를 찍는게
 마이 네임 한소희 단발
 [넷플릭스] 마이 네임 (2021) - 이름과 인생을 갖다바친 최후의 복수 (한소희)/안
 보현/넷플릭스 드라마)
 배우 한소희, 옷가게, 고깃집, 호프집까지 알바나선이유 - 배우 한소희,
 옷가게, 고깃집, 호프집까지 얹해 본 알바가 없어요.
 빙그레 따옴 + 한소희 - 2020년 5월 29일 따옴 광고 온에어 (JTBC)
 <송강> 넷플릭스의 아들, 나빌레라의 주인공 - 미래는 한소희의 남자
 '알고있지만' 한소희의 러블리한 매력을 닮은 여름 부케 - 러블리 상큼 향기로운
 여름 부케 추천!
 블랙핑크 지수랑 같은 이름이네요? 나 완전 팬인데! - 런던에서 맥주 따르기 8번째
 3-1. 프랑스 1일차
 요즘 본 OTT 드라마들 - - 요즘 그렇게 드라마를 본다.

In []: # 네이버 자동완성창 가져오기 - 한소희

In [40]: parse_qs('q=%ED%95%9C%E3%85%87&con=1&frm=nv&ans=2&r_format=json&r_enc=UTF-8&r_uni

Out[40]: {'q': ['한^ㅅ'],
 'con': ['1'],
 'frm': ['nv'],
 'ans': ['2'],
 'r_format': ['json'],
 'r_enc': ['UTF-8'],
 'r_unicode': ['0'],
 't_koreng': ['1'],
 'run': ['2'],
 'rev': ['4'],
 'q_enc': ['UTF-8'],
 'st': ['100'],
 '_callback': ['_jsonp_6']}

In [54]: url = 'https://ac.search.naver.com/nx/ac'
 params = {
 'q': '한소희',
 'con': '1',
 'frm': 'nv',
 'ans': '2',
 'r_format': 'json',
 'r_enc': 'UTF-8',
 'r_unicode': '0',
 't_koreng': '1',
 'run': '2',
 'rev': '4',
 'q_enc': 'UTF-8',
 'st': '100'
 }
 params['q'] = '한'
 resp = get(url, params=params)
 resp.json()['items']

```
Out[54]: [[['한소희', '0'],
            ['한블리', '0'],
            ['한 페이지가 될 수 있게', '0'],
            ['한동훈', '0'],
            ['한국사능력검정시험', '1'],
            ['하나은행', '0'],
            ['한자사전', '0'],
            ['하나투어', '0'],
            ['한섬', '0'],
            ['한유진', '0']]]
```

```
In [55]: dom = BeautifulSoup(get('https://www.naver.com').text, 'html.parser')
dom.select('form')
```

```
Out[55]: [<form action="https://search.naver.com/search.naver" id="sform" method="get" name="sform" role="search">
  <fieldset>
  <legend class="blind">검색</legend>
  <input name="where" type="hidden" value="nexearch"/>
  <input id="sm" name="sm" type="hidden" value="top_hy"/>
  <input id="fbm" name="fbm" type="hidden" value="0"/>
  <input disabled="disabled" id="acr" name="acr" type="hidden" value=""/>
  <input disabled="disabled" id="acq" name="acq" type="hidden" value=""/>
  <input disabled="disabled" id="qdt" name="qdt" type="hidden" value=""/>
  <input id="ie" name="ie" type="hidden" value="utf8"/>
  <input disabled="disabled" id="acir" name="acir" type="hidden" value=""/>
  <input disabled="disabled" id="os" name="os" type="hidden" value=""/>
  <input disabled="disabled" id="bid" name="bid" type="hidden" value=""/>
  <input disabled="disabled" id="pkid" name="pkid" type="hidden" value=""/>
  <input disabled="disabled" id="eid" name="eid" type="hidden" value=""/>
  <input disabled="disabled" id="mra" name="mra" type="hidden" value=""/>
  <div class="green_window" style="border-color: #5fc14c;">
  <!-- [AU] data-atcmp-element 에 해당하는 attribute를 추가해주세요. -->
  <input accesskey="s" autocomplete="off" class="input_text" data-atcmp-element=""
id="query" maxlength="255" name="query" onclick="document.getElementById('fbm').va
lue=1;" placeholder="검색어를 입력해 주세요." style="ime-mode:active;" tabindex
="1" title="검색어 입력" type="search" value=""/>
  </div>
  <button class="btn_submit" id="search_btn" onclick="window.nclick(this,'sch.actio
n','',event);" style="background-color: #5fc14c" tabindex="3" title="검색" type
="submit">
  <span class="blind">검색</span>
  <span class="ico_search_submit"></span>
  </button>
  </fieldset>
  </form>]
```

```
In [ ]: https://comic.naver.com/webtoon/list?titleId=648419
        648419 <- JSON
```

```
In [ ]: https://comic.naver.com/webtoon/detail?
        titleId=648419 <= 웹툰(weekday)
        no=377 <= 회차(list?웹툰키값)
```

```
In [72]: # 메타 - 웹툰 고유 ID, 웹툰별 회차 ID
# 요일별 웹툰 목록
url1 = 'https://comic.naver.com/api/webtoon/titlelist/weekday?order=user'
# 각 웹툰의 정보
url2 = 'https://comic.naver.com/api/article/list/info'
# 각 웹툰의 회차
```

```

url3 = 'https://comic.naver.com/api/article/list'
# 각 웹툰의 특정 회차 내용
url4 = 'https://comic.naver.com/webtoon/detail'

params2 = {'titleId':None}
params3 = {'titleId':None, 'page':1}
params4 = {'titleId':None, 'no':None}

```

In [57]: resp.headers

Out[57]: {'Content-Type': 'application/json', 'x-content-type-options': 'nosniff', 'x-xss-protection': '1; mode=block', 'Cache-Control': 'no-cache, no-store, max-age=0, must-revalidate', 'Pragma': 'no-cache', 'Expires': '0', 'x-frame-options': 'SAMEORIGIN', 'Content-Encoding': 'gzip', 'referrer-policy': 'unsafe-url', 'Server': 'nfront', 'Date': 'Mon, 20 Mar 2023 01:41:38 GMT', 'Transfer-Encoding': 'chunked', 'Connection': 'keep-alive, Transfer-Encoding', 'Vary': 'Accept-Encoding', 'Set-Cookie': 'XSRF-TOKEN=64b90faf-970f-4766-b91f-256e9e4529c7; Path=/'}

```

In [70]: webtoon = list()
for k, v in resp.json()['titleListMap'].items():
    for li in v:
        webtoon.append((li['titleId'], li['titleName']))

```

In [71]: len(webtoon)

Out[71]: 581

```

In [87]: import re
# 웹툰목록 -> 회차 -> 각 웹툰의 회차
URLs = [url1]
visited = list()

# while URLs:
for _ in range(10):
    seed = URLs.pop(-1) # Stack
    visited.append(seed)

    resp = get(seed, headers=headers)

    # 오류 처리(위 코드 참조)
    if resp.status_code != 200:
        continue

    if re.search('image', resp.headers['content-type']):
        filename = resp.url.split('/')[-1]
        filename = re.sub('[?#!= ]', '', filename)
        ext = re.search('image/(\w+)?',
                        resp.headers['content-type']).group(1)
        with open('./webtoon/'+filename+'.'+ext, 'wb') as fp:
            fp.write(resp.content)
    if re.search('json', resp.headers['content-type']):
        data = resp.json() # Python Dict 객체 변환
        # 영역 제한 - 1 (웹툰 목록)
        if 'titleListMap' in data.keys():
            for k, v in data['titleListMap'].items():
                for li in v: # MONDAY:[li:... li:... ...]
                    nurl = 'https://comic.naver.com/api/article/list?titleId={}&page={}'
                    if nurl not in URLs and\
                       nurl not in visited:
                        URLs.append(nurl)

```

```
# URLs.append('https://comic.naver.com/api/article/list?titleId={}&page=1'
#             .format(li['titleId']))
# 영역 제한 - 2 (특정 웹툰의 회차 목록)
if 'articleList' in data.keys():
    for li in data['articleList']: # [li:{no:...} li:{...} li:{...}]
        nurl = 'https://comic.naver.com/webtoon/detail?titleId={}&no={}'.format(
            li['titleId'], li['no'])
        if nurl not in URLs and\
            nurl not in visited:
            URLs.append(nurl)
# URLs.append(f'https://comic.naver.com/webtoon/detail?titleId={}&no={}'
#             .format(data['titleId'], li['no']))
if re.search('html', resp.headers['content-type']):
    dom = BeautifulSoup(resp.text, 'html.parser')
# 영역 제한 - 3 (특정 웹툰의 특정 회차의 이미지 목록)
for img in dom.select('img[id^=content_image_]'):
    nurl = urljoin(seed, img.attrs['src'])
    if nurl not in URLs and\
        nurl not in visited:
        URLs.append(nurl)
```

In [89]: # Cookie, Session ; 데이터 저장 (Expired Date:수명)

```
Client          Server
Req  ----->
Resp <----- HTTP(TCP/IP)

[Login]-----> (ID/PW)
OK <----- (마이 페이지)
              내가 누군지 (Server)

mail ----->
내 메일 <-----
```

Out[89]: 'https://comic.naver.com/api/webtoon/titlelist/weekday?order=user'

```
In [95]: url = 'https://pythonscraping.com/pages/cookies/login.html'
resp = get(url)
print(resp.text)
```

```
<h2>Log In Here!</h2>
Warning: Your browser must be able to use cookies in order to view our site!
<form method="post" action="welcome.php">
Username (use anything!): <input type="text" name="username"><br>
Password (try "password"): <input type="password" name="password"><br>
<input type="submit" value="Login">
</form>
```

```
In [96]: dom = BeautifulSoup(resp.text, 'html.parser')
```

```
In [98]: dom.select_one('form').attrs
```

```
Out[98]: {'method': 'post', 'action': 'welcome.php'}
```

```
In [99]: for li in dom.select('form input[name]'):
          print(li.attrs)
```

```
{'type': 'text', 'name': 'username'}
{'type': 'password', 'name': 'password'}
```

```
In [100]: urljoin(url, dom.select_one('form').attrs['action'])
```

```
Out[100]: 'https://pythonscraping.com/pages/cookies/welcome.php'
```

```
In [163... from requests import post, request
from requests.cookies import cookiejar_from_dict
```

```
In [180... cookie = cookiejar_from_dict({'loggedin': '1'})
```

```
In [181... from requests.compat import urlencode
resp = post(urljoin(url, dom.select_one('form').attrs['action']),
            data={'username': 'asdfasdfas', 'password': 'password'},
            cookies=cookie)
```

```
In [182... resp.status_code, resp.request.body
```

```
Out[182]: (200, 'username=asdfasdfas&password=password')
```

```
In [183... resp.headers['set-cookie']
```

```
Out[183]: 'loggedin=1, username=asdfasdfas'
```

```
In [184... print(resp.text)
```

```
<h2>Welcome to the Website!</h2>
You have logged in successfully! <br><a href="profile.php">Check out your profile!
</a>
```

```
In [122... from requests.sessions import Session
```

```
In [129... session = Session()
```

```
In [185... session.cookies.set('loggedin', '1')
session.cookies.set('username', 'asdfasdfas')
```

```
Out[185]: Cookie(version=0, name='username', value='asdfasdfas', port=None, port_specified=False, domain='', domain_specified=False, domain_initial_dot=False, path='/', path_specified=True, secure=False, expires=None, discard=True, comment=None, comment_url=None, rest={'HttpOnly': None}, rfc2109=False)
```

```
In [186... # resp = session.post(urljoin(url, dom.select_one('form').attrs['action']))
resp = post(urljoin(url, dom.select_one('form').attrs['action']),
            data={'username': 'asdfasdfas', 'password': 'password'},
            cookies=cookie)
```

```
In [195... resp = session.post(urljoin(url, dom.select_one('form').attrs['action']),
                    data={'username': 'asdfasdfas', 'password': 'password'})
```

```
In [196... session.get(urljoin(url, dom.select_one('form').attrs['action'])).text
```

```
Out[196]: '\n<h2>Welcome to the Website!</h2>\nYou have logged in successfully! <br><a href="profile.php">Check out your profile!</a>'
```

```
In [197... session.cookies
```

```
Out[197]: <RequestsCookieJar[Cookie(version=0, name='loggedin', value='1', port=None, port_specified=False, domain='pythonscraping.com', domain_specified=False, domain_initial_dot=False, path='/pages/cookies', path_specified=False, secure=False, expires=None, discard=True, comment=None, comment_url=None, rest={}, rfc2109=False), Cookie(version=0, name='username', value='asdfasdfas', port=None, port_specified=False, domain='pythonscraping.com', domain_specified=False, domain_initial_dot=False, path='/pages/cookies', path_specified=False, secure=False, expires=None, discard=True, comment=None, comment_url=None, rest={}, rfc2109=False)]>
```

```
In [190... get(urljoin(url, dom.select_one('form').attrs['action'])).text
```

```
Out[190]: '\n<h2>Welcome to the Website!</h2>\nWhoops! You logged in wrong. Try again with any username, and the password "password"<br><a href="login.html">Log in here</a>'
```

```
In [191... get(urljoin(url, dom.select_one('form').attrs['action']),
        cookies=session.cookies).text
```

```
Out[191]: '\n<h2>Welcome to the Website!</h2>\nYou have logged in successfully! <br><a href="profile.php">Check out your profile!</a>'
```

```
In [ ]: session 객체 get, post, .....
        차이점 . headers[set-cookie] => Cookie Jar 객체
        session.get(cookies=쿠키) => 로그인 OK
        get() => 로그인 X, get(cookies=session.cookie) => 로그인 O
```

```
In [140... type(session.cookies)
```

```
Out[140]: requests.cookies.RequestsCookieJar
```

```
In [143... session.cookies.set('test', '234234312')
```

```
Out[143]: Cookie(version=0, name='test', value='234234312', port=None, port_specified=False, domain='', domain_specified=False, domain_initial_dot=False, path='/', path_specified=True, secure=False, expires=None, discard=True, comment=None, comment_url=None, rest={'HttpOnly': None}, rfc2109=False)
```

```
In [144... session.cookies.get_dict()
```

```
Out[144]: {'test': '234234312', 'loggedin': '1', 'username': 'asdfasdfas'}
```

```
In [ ]: c = '''
        브라우저 - Application - Naver - 쿠키 목록 전부
        ...

        [l.split()[2:] for l in c.splitlines() if len(l) > 1]
```

```
In [193... session.cookies.clear()
```

```
In [151... for kv in [l.split()[2:] for l in c.splitlines() if len(l) > 1]:
        session.cookies.set(kv[0], kv[1])
```

```
In [156... resp = get('https://mail.naver.com') # 로그인 하라고 나옴
```

```
In [157... print(resp.text)
```



```

<!DOCTYPE html>
<html lang="ko">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge, chrome=1">
  <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-
scale=1.0, user-scalable=no">
  <meta property="og:type" content="website">
  <meta property="og:title" content="네이버">
  <meta property="og:description" content="네이버에 로그인 하고 나를 위한 다양한
서비스를 이용해 보세요">
  <meta property="og:image" content="https://ssl.pstatic.net/static/nid/account/
naver_og_image.png">
  <meta property="og:image:type" content="image/png">
  <meta property="og:image:width" content="1200">
  <meta property="og:image:height" content="630">
  <title>네이버 : 로그인</title>
  <link rel="stylesheet" type="text/css" href="/login/css/global/desktop/w_20220
216.css?20210812">
</head>
<body>
<div id="wrap" class="wrap">
  <div class="u_skip"><a href="https://www.naver.com">본문 바로가기</a></div>
  <header class="header" role="banner" >
    <div class="header_inner">
      <a href="https://www.naver.com" class="logo">
        <h1 class="blind">NAVER</h1>
      </a>
      <div class="lang" id="show_locale_switch">
        <select id="locale_switch" name="locale_switch" title="언어선택" c
lass="sel">
          <option value="ko_KR">한국어</option>
          <option value="en_US">English</option>
          <option value="zh-Hans_CN">中文(简体)</option>
          <option value="zh-Hant_TW">中文(台灣)</option>
        </select>
      </div>
    </div>
  </header>

  <div id="container" class="container">
    <!-- content -->
    <div class="content">
      <div class="login_wrap">
        <ul class="menu_wrap" role="tablist">
          <li class="menu_item" role="presentation">
            <!--[주] 탭메뉴 활성화시(=선택시) "on"을 추가해주세요. 접근
성: aria-selected는 탭 선택시 true, 미선택시 false로 적용-->
            <!--[주:접근성] 탭메뉴의 id 값과 탭내용의 aria-controls를
연결하고 있습니다. -->
            <a href="#none" id="loinid" class="menu_id on" role="tab"
aria-selected="true">
              <span class="menu_text"><span class="text">ID 로그인</
span></span>
            </a>
          </li>
          <li class="menu_item" role="presentation">
            <a href="#none" id="ones" class="menu_ones" role="tab" ari
a-selected="false">
              <span class="menu_text"><span class="text">일회용 번호
</span></span>

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        </a>
    </li>
    <li class="menu_item" role="presentation">
        <a href="#none" id="qrcode" class="menu_qr" role="tab" aria-selected="false">
            <span class="menu_text"><span class="text">QR코드</span></span>
        </a>
        <!--넛지배너-->
        <div class="nudge_banner" id="nudge_tooltip">
            <span class="nudge_text">PC방 등 공용PC라면 QR코드 로
그인이 더 안전해요.</span>
            <button type="button" id="nudge_close" class="nudge_close"><span
                class="icon_nudge_close"></span></button>
        </div>
    </li>
</ul>
<form id="frmNIDLogin" name="frmNIDLogin" target="_top" AUTOCOMPLE
TE="off"
        action="https://nid.naver.com/nidlogin.login" method="POST">
        <input type="hidden" id="localechange" name="localechange" value="">
        <input type="hidden" name="dynamicKey" id="dynamicKey" value="Ond_y6Iv2jjMEQW-3GlZHoenMaN0vzTDZZzfk4EHBnu9jXMvIDEP1TUJef6rv1T2pXra8nB_BMe4MFmJlK3yxuHIm3JYv8OcxgqXvSpq1n0">
        <input type="hidden" name="encpw" id="encpw" value="">
        <input type="hidden" name="enctp" id="enctp" value="1">
        <input type="hidden" name="svctype" id="svctype" value="1">
        <input type="hidden" name="smart_LEVEL" id="smart_LEVEL" value="1">
        <input type="hidden" name="bvsd" id="bvsd" value="">
        <input type="hidden" name="encnm" id="encnm" value="">
        <input type="hidden" name="locale" id="locale" value="ko_KR">
        <input type="hidden" name="url" id="url" value="https://mail.naver.com/">

        <ul class="panel_wrap">
            <li class="panel_item" style="display: block;">
                <div class="panel_inner" role="tabpanel" aria-controls="loinid">
                    <div class="id_pw_wrap">
                        <div class="input_row" id="id_line">
                            <div class="icon_cell" id="id_cell">
                                <span class="icon_id">
                                    <span class="blind">아이디</span>
                                </span>
                            </div>
                            <input type="text" id="id" name="id" placeholder="아이디" title="아이디"
                                class="input_text" maxlength="41" value="">
                            <span role="button" class="btn_delete" id="id_clear" style="display: none;">
                                <span class="icon_delete">
                                    <span class="blind">삭제</span>
                                </span>
                            </span>
                        </div>
                        <div class="input_row" id="pw_line">
                            <div class="icon_cell" id="pw_cell">

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>
    <span class="icon_pw">
        <span class="blind">비밀 번호</span>
    </span>
</div>
<input type="password" id="pw" name="pw" p
laceholder="비밀 번호" title="비밀 번호"
class="input_text" maxlength="16">
<span role="button" class="btn_delete" id
="pw_clear" style="display: none;">
    <span class="icon_delete">
        <span class="blind">삭제</span>
    </span>
</div>
</div>
<div class="login_keep_wrap" id="login_keep_wrap">
    <div class="keep_check">
        <input type="checkbox" id="keep" name="nv1
ong"
class="input_keep" value="off">
        <label for="keep" class="keep_text">로그인
상태 유지</label>
    </div>
    <div class="ip_check">
        <a href="/login/ext/help_ip3.html" target
="_blank" id="ipguide" title="IP보안"><span class="ip_text">IP보안</span></a>
        <span class="switch">
            <input type="checkbox" id="switch"
class="switch_checkbox" value
="off">
            <label for="switch" class="switch_bt
n">
                <span class="blind" id="switch_bli
nd">OFF</span>
            </label>
        </span>
    </div>
</div>
<div class="login_error_wrap" id="err_capslock" st
yle="display: none;">
    <div class="error_message">
        <strong>CapsLock</strong>이 켜져 있습니다.
    </div>
</div>
<div class="login_error_wrap" id="err_empty_id" st
yle="display: none;">
    <div class="error_message">
        <strong>아이디</strong>를 입력해 주세요.
    </div>
</div>
<div class="login_error_wrap" id="err_empty_pw" st
yle="display: none;">
    <div class="error_message">
        <strong>비밀 번호</strong>를 입력해 주세요.
    </div>
</div>
<div class="login_error_wrap" id="err_common" sty

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```

le="display:none;">

        <div class="error_message"
            style="width:90%">

        </div>
    </div>
    <div class="btn_login_wrap">

        <button type="submit" class="btn_login" id="lo
g.login">

            <span class="btn_text">로그인</span>
        </button>

    </div>
</div>
</li>
</ul>
</form>
</div>
<ul class="find_wrap" id="find_wrap">

    <li><a target="_blank" href="https://nid.naver.com/user2/api/rout
e?m=routePwInquiry&lang=ko_KR"
        class="find_text">비밀번호 찾기</a></li>
    <li><a target="_blank" href="https://nid.naver.com/user2/api/rout
e?m=routeIdInquiry&lang=ko_KR"
        class="find_text">아이디 찾기</a></li>
    <li><a target="_blank" href="https://nid.naver.com/user2/V2Join?m=
agree&lang=ko_KR" class="find_text">회원가입</a>
    </li>

</ul>
<!--배너-->
<div id="gladbanner" class="banner_wrap">
    &nbsp;
</div>
</div>
<!-- //content -->
</div>

<!-- footer -->
<div class="footer">
    <div class="footer_inner">
        <!-- [주]고객센터,제휴문의,서비스안내-->
        <ul class="footer_link" id="footer_link">
            <li><a target="_blank" class="footer_item" href="http://www.naver.
com/rules/service.html"
                id="fot.agreement"><span class="text">이용약관</span></a></
li>
            <li><a target="_blank" class="footer_item" href="http://www.naver.
com/rules/privacy.html"
                id="fot.privacy"><span class="text"><strong>개인정보처리방
침</strong></span></a></li>
            <li><a target="_blank" class="footer_item" href="http://www.naver.
com/rules/disclaimer.html"
                id="fot.disclaimer"><span class="text">책임의 한계와 법적고
지</span></a></li>
            <li><a target="_blank" class="footer_item"
                href="https://help.naver.com/support/service/main.nhn?servi
ceNo=532" id="fot.help"><span
                class="text">회원정보 고객센터</span></a></li>

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```

    </ul>
    <div class="footer_copy">
      <a id="fot.naver" target="_blank" href="https://www.navercorp.co
m">
        <span class="footer_logo"><span class="blind">네이버</span></s
pan>
        </a>
        <span class="text">Copyright</span>
        <span class="corp">© NAVER Corp.</span>
        <span class="text">All Rights Reserved.</span>
      </div>
    </div>
  </div>

  </div>
  <input type="hidden" id="nclicks_nsc" name="nclicks_nsc" value="nid.login_kr">
  <input type="hidden" id="nid_buk" name="nid_buk" value="none">
  <input type="hidden" id="removeLink" name="removeLink" value="">
  <input type="hidden" id="hide_util" name="hide_util" value="">
  <input type="hidden" id="ncaptchaSplit" name="ncaptchaSplit" value="none">
  <input type="hidden" id="id_error_msg" name="id_error_msg" value="<strong>아이디</
strong>를 입력해주세요.">
  <input type="hidden" id="pw_error_msg" name="pw_error_msg" value="<strong>비밀번호
</strong>를 입력해주세요.">
  <input type="hidden" id="locale" name="locale" value="ko_KR">
  <input type="hidden" id="adult_surl_v2" name="adult_surl_v2" value="">
  <input type="hidden" id="ispopup" name="ispopup" value="false">
  <script type="text/javascript" src="/login/js/bvsd.1.3.9.min.js"></script>
  <script type="text/javascript" async src="https://ssl.pstatic.net/tveta/libs/glad/
prod/gfp-core.js"></script>
  <script type="text/javascript" src="/login/js/v2/default/common_202201.js?v=202302
17"></script>
  <script type="text/javascript" src="/login/js/v2/default/default_202105.js?v=20230
217"></script>
  <div id="nv_stat" style="display:none;">20</div>
</body>
</html>

```

In [158...

```
print(session.get('https://mail.naver.com').text) # 다른 내용
```

```

<!doctype html><html><head lang="ko"><meta charset="UTF-8"/><meta name="viewport"
content="width=device-width,initial-scale=1,maximum-scale=1,minimum-scale=1,viewpo
rt-fit=cover"/><title>메일</title><link rel="shortcut icon" sizes="192x192" href
="https://ssl.pstatic.net/static/pwe/naver_mail/xxxhpd_192x192.png"><link rel="ap
ple-touch-icon-precomposed" sizes="72x72" href="https://ssl.pstatic.net/static/pw
e/naver_mail/hdpi_72x72.png"><link rel="apple-touch-icon-precomposed" sizes="96x9
6" href="https://ssl.pstatic.net/static/pwe/naver_mail/xhdpi_96x96.png"><link rel
="apple-touch-icon-precomposed" sizes="144x144" href="https://ssl.pstatic.net/stat
ic/pwe/naver_mail/xxxhpd_144x144.png"><link rel="apple-touch-icon-precomposed" siz
es="192x192" href="https://ssl.pstatic.net/static/pwe/naver_mail/xxxhpd_192x192.p
ng"><script>window.nhn = {};
    window.gnb_option = {
        gnb_service: "mail",
        gnb_template: "gnb_utf8",
        gnb_logout: "https://www.naver.com",
        gnb_one_naver: 1,
        gnb_item_hide_option: 8,
        gnb_one_flat: 1,
        gnb_one_pwe: 1
    };</script><script src="https://ssl.pstatic.net/tveta/libs/glad/prod/gfp-cor
e.js"></script><script>window.gladsdk = window.gladsdk || { cmd: [] };</script><sc
ript async src="/builds/v2/libs/jindo.js"></script><script src="/builds/v2/libs/es
6-shim.js"></script><script src="/builds/v2/libs/lcslog_v0.14.0.js"></script><scri
pt async src="/builds/v2/libs/site-translator_v3.0.6.js"></script><script async sr
c="/builds/v2/libs/ncl_k_v0.8.1.js"></script><script id="postData">try {
    var __ONEWEB_POST_DATA__ = (POST_DATA);
} catch (e) {
    if (typeof __ONEWEB_POST_DATA__ === 'undefined') {
        var postDataEl = document.querySelector('#postData');
        postDataEl.parentNode.removeChild(postDataEl);
    }
}
</script><link rel="stylesheet" href="/builds/v2/css/index.c597651.css"/><li
nk rel="icon" href="/builds/v2/favicon.ico"><script defer="defer" src="/builds/v
2/js/runtime.c597651.js"></script><script defer="defer" src="/builds/v2/js/vendor.
c597651.js"></script><script defer="defer" src="/builds/v2/js/app.c597651.js"></sc
ript></head><body><div id="u_skip"><a href="#content">본문으로 바로가기</a></div><
div id="root"></div><div id="layer"></div><div id="toast"></div></body></html>

```

In []:

In []:

In []:

In []:

In []:

In []: