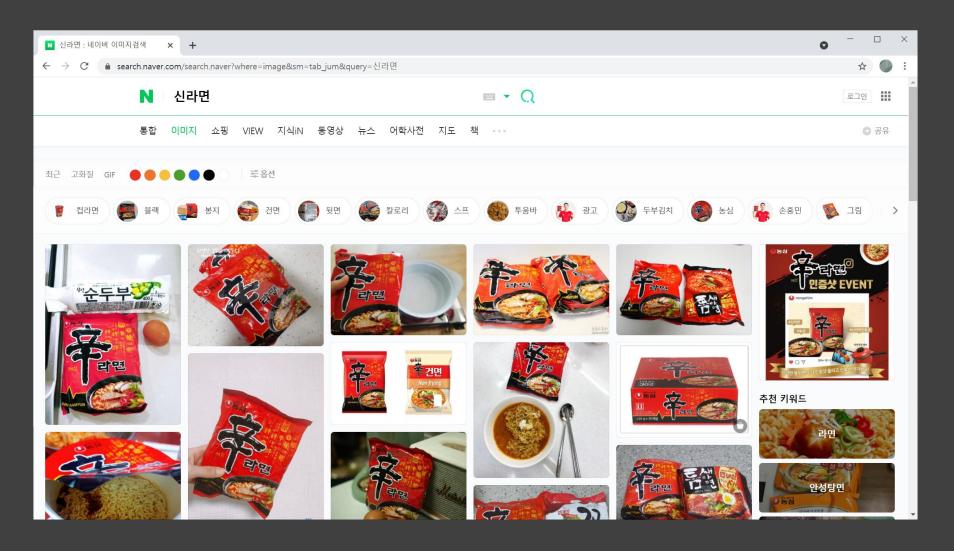
제 14 강 Web Scraping (3)

과업 #3.

• 신라면 이미지 자동 다운로드



```
keyword = '신라면'
url = 'https://search.naver.com/search.naver?where=image&sm=tab_jum&query=' + keyword
p = sync_playwright().start()
browser = p.chromium.launch(headless=False).new_context(
    user_agent='Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/109.0.0.0 Safari/537.36'
page = browser.new_page()
page.goto(url)
soup = BeautifulSoup(page.content(), 'lxml')
elms = soup.select('imq._image._listImage')
for n, e in enumerate(elms):
    print(n, e['src'], e)
```

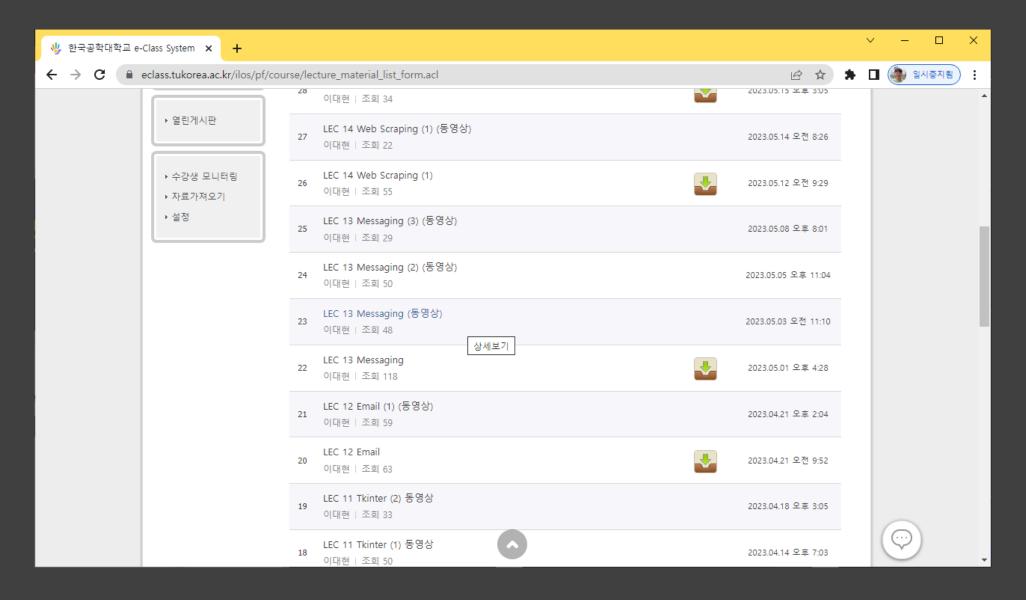
로딩 늦어지는 리소스에 대한 처리

```
for n, e in enumerate(elms):
    caption = e['alt']
    image_url = e.get('data-lazy-src', e['src'])
    print(f'{n} {caption} {image_url}')
```

requests.get 를 이용한 다운로드

```
def download_image(image_url):
    r = requests.get(image_url)
    r.raise_for_status()
    if r.headers['Content-Type'] == 'image/jpeg':
        fname = f'img_{uuid.uuid4().int}.jpg'
        with open(fname, 'wb') as wf:
            print(f'Downloading {fname} .....')
            wf.write(r.content)
for e in elms:
    image_url = e.get('data-lazy-src', e['src'])
    download_image(image_url)
```

과업 #4. eclass 에서 강의 자료 일괄 다운로드



로그인

```
from playwright.sync_api import sync_playwright
import time
url = 'https://eclass.tukorea.ac.kr/ilos/main/member/login_form.acl'
p = sync_playwright().start()
browser = p.chromium.launch(headless=False).new_context(
    viewport={'width': 1920, 'height': 1024}
page = browser.new_page()
page.goto(url)
page.locator('input[name="usr_id"]').fill('*******)
page.locator('input[name="usr_pwd"]').fill('*******)
page.locator('#login_btn').click()
```

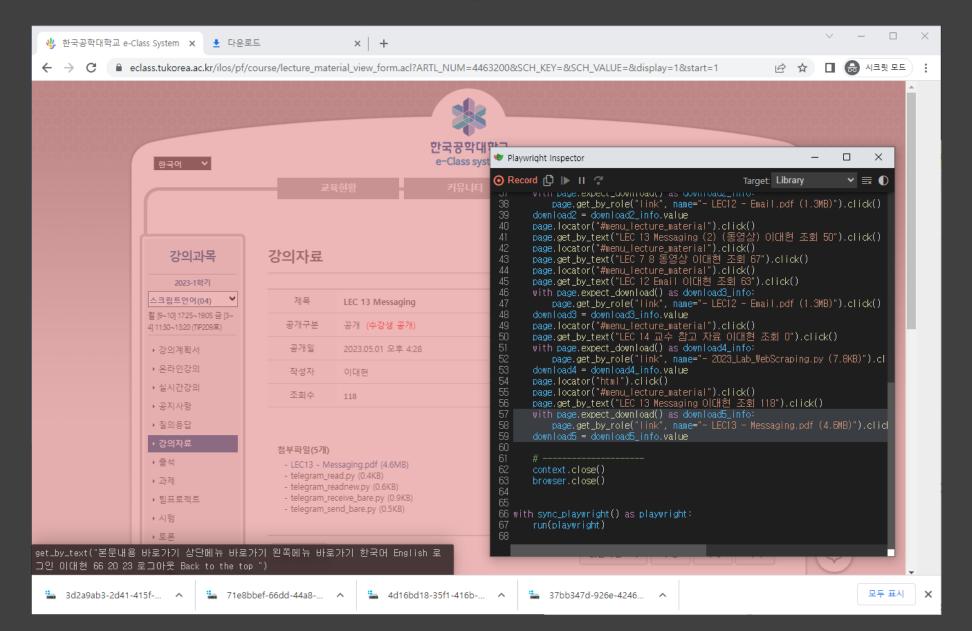
강의 자료 페이지 이동

```
page.locator('em[title="스크립트언어"]').click()
page.locator('#menu_lecture_material').click()
page.reload()
```

개별 게시물 이동

```
elms = page.locator('a.site-link').all()
text_list = [e.text_content() for e in elms]
for t in text_list[:3]: # 상위 3개만
    page.get_by_text(t).click()
    time.sleep(1)
    page.goto('https://eclass.tukorea.ac.kr/ilos/pf/course/lecture_material_list_form.acl')
```

자동화 추출: playwrite codegen



파일 다운로드

```
elms = page.locator('a.site-link').all()
text_list = [e.text_content() for e in elms]
for t in text_list[:3]: # 상위 3개만
    page.get_by_text(t).click()
    for l in page.locator('a.site-link').all():
        with page.expect_download() as download_info:
            l.click()
        download = download_info.value
        download.save_as(download.suggested_filename)
    time.sleep(1)
    page.goto('https://eclass.tukorea.ac.kr/ilos/pf/course/lecture_material_list_form.acl')
```

네이버 로그인

```
from playwright.sync_api import sync_playwright
import time
url = 'https://nid.naver.com/nidlogin.login?mode=form&url=https://www.naver.com/'
p = sync_playwright().start()
browser = p.chromium.launch(headless=False).new_context(
    viewport={'width': 1920, 'height': 1024}
page = browser.new_page()
page.goto(url)
print(page.title())
page.get_by_role('textbox', name='아이디').fill('******)
page.get_by_role('textbox', name='비밀번호').fill('******)
page.get_by_role('button', name='로그인').click()
page.get_by_text('등록', exact=True).click()
```