

WueCampus API

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Wie lädt man am besten OpenColloq Vorträge herunter?

- Per Hand
 - Nicht Automatisiert
- Selenium
 - Langsam
 - Sensibel gegenüber Layoutänderungen
- API

Welche API?

Access API (access), Data manipulation API (dml), File API (files), Form API (form), Logging API (log), Navigation API (navigation), Page API (page), Output API (output), String API (string), Upgrade API (upgrade), Moodlelib API (core), Admin settings API (admin), Admin presets API (adminpresets), Analytics API (analytics), Availability API (availability), Backup API (backup), Cache API (cache), Calendar API (calendar), Check API (check), Comment API (comment), Competency API (competency), Data definition API (ddl), Editor API, Enrolment API (enrol), Events API (event), Hooks API, Experience API (xAPI), External functions API (external), Favourites API, H5P API (h5p), Lock API (lock), Message API (message), Media API (media), My profile API, OAuth 2 API (oauth2), Payment API (payment), Preference API (preference), Portfolio API (portfolio), Privacy API (privacy), Rating API (rating), Report builder API (reportbuilder), RSS API (rss), Search API (search), Tag API (tag), Task API (task), Time API (time), Testing API (test), User-related APIs (user), **Web services API (webservice)**, Badges API (badges), Custom fields API (customfield), Activity completion API (completion), Advanced grading API (grading), Conditional activities API (condition), Groups API (group), Gradebook API (grade), Plagiarism API (plagiarism), Question API (question)

Wie sieht die Anfrage aus?

```
https://wuecampus.uni-wuerzburg.de/moodle/webservice/rest/server.php?  
wstoken=...&wsfunction=...&moodlewsrestformat=json&PARAMETER
```

Token

```
https://wuecampus.uni-wuerzburg.de/moodle/login/token.php?  
username=...&password=...&service=moodle_mobile_app
```

```
token: "4f70656e436f6c6c6f71"  
privatetoken: "QXVjaCBhbSBQcm9rcmFzdGluaWVyZW4/"
```

Function

```
https://docs.moodle.org/dev/Web_service_API_functions
```

Was sind die Parameter?

- Trial-and-Error
- GitHub durchforsten
- Vollständige API Dokumentation
 1. Als Administrator einloggen
 - WueCampus-Admin werden
 - Eigenes Moodle installieren
 - Moodle Sandbox
 2. Navigieren zu
Site administration > Server :

Beispiel: Herunterladen von "3D Gaussian Splatting"

1. Kursinhalte abrufen

```
https://wuecampus.uni-wuerzburg.de/moodle/webservice/rest/server.php?  
wstoken=4f70656e436f6c6c6f71&wsfunction=core_course_get_contents  
&moodlewsrestformat=json&courseid=21049
```

2. Datei-URL finden

```
https://wuecampus.uni-wuerzburg.de/moodle/webservice/pluginfile.php/  
4503676/mod_resource/content/1/3dgaussiansplatting.pdf?forcedownload=1
```

3. Datei herunterladen

```
https://wuecampus.uni-wuerzburg.de/moodle/webservice/pluginfile.php/  
4503676/mod_resource/content/1/3dgaussiansplatting.pdf?forcedownload=1  
&token=4f70656e436f6c6c6f71
```

Links

- Anfrage + Token:

https://docs.moodle.org/dev/Creating_a_web_service_client

- Funktionen:

https://docs.moodle.org/dev/Web_service_API_functions

- Vollständige Dokumentation:

<https://sandbox.moodledemo.net/admin/webservice/documentation.php>