Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Didactics in Chemistry (Middle School) as Didaktikfach with the degree "Erste Staatsprüfung für das Lehramt an Mittelschulen"

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2013

Abbreviations used:
- Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture
- Term: **SS** = summer semester, **WS** = winter semester
- Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed
- Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules
- Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions for the modules in this SFB:
- Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures:
- Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.
- Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.
- Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.
In accordance with the general regulations governing the degree subject described in this module catalogue:

**LASPO2009**

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

**25-Sep-2014 (2014-55)**

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Module title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTS</td>
<td>Duration (in semesters)</td>
</tr>
<tr>
<td>Courses</td>
<td>To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y</td>
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</table>

<table>
<thead>
<tr>
<th>Method of assessment</th>
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<tbody>
<tr>
<td>Only after successful completion of if applicable</td>
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<tr>
<td>Other prerequisites if applicable</td>
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<tr>
<td>Participants and allocation of places if applicable</td>
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<tr>
<td>Additional information if applicable</td>
</tr>
<tr>
<td>Referred to in LPO I if applicable (examination regulations for teaching-degree programmes)</td>
</tr>
</tbody>
</table>
### Compulsory Courses (20 ECTS credits)

Successful completion of modules worth 20 ECTS credits in each subject selected as Didaktikfach (subject studied with a focus on teaching methodology) is a prerequisite for admission to the Erste Staatsprüfung (First State Examination) in the subject Didaktiken einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule).

| Courses | Method of assessment | | | | |
|---|---|---|---|---|
| **Experiments in Chemical Education** | | | | |
| ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| Courses | This module comprises 2 module components. Information on courses will be listed separately for each module component. | | | | | | |
| 08-FD-ExUnt-1-092: Ü (no information on SWS (weekly contact hours) and course language available) | Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. | | | | | | |
| 08-FD-ExUnt-2-092: S (no information on SWS (weekly contact hours) and course language available) | Assessment in module component 08-FD-ExUnt-1-092: Experiments in Chemical Teaching at Primary and Secondary Public Schools | | | | | | |
| | • 4 ECTS, Method of grading: numerical grade | | | | | | |
| | • presentation with demonstration (approx. 30 minutes) | | | | | | |
| | • Language of assessment: German or English | | | | | | |
| | Assessment in module component 08-FD-ExUnt-2-092: Planning of Teaching Units | | | | | | |
| | • 1 ECTS, Method of grading: numerical grade | | | | | | |
| | • presentation (approx. 20 minutes) | | | | | | |
| | • Language of assessment: German or English | | | | | | |
| Referred to in LPO I | § 36 (1) 7. Didaktik der Grundschule Chemie | | | | | | |
| | § 38 (1) 1. Didaktik der Hauptschule Chemie | | | | | | |
| | § 38 (1) 1. Didaktik der Mittelschule Chemie | | | | | | |
| | § 42 Chemie Fachdidaktik | | | | | | |
### Chemistry Education: Educational Theory and Models of Teaching Concepts

<table>
<thead>
<tr>
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<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
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<tbody>
<tr>
<td>5</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
</tbody>
</table>

#### Courses
- **08-FD-Einf-1-092: V** (no information on SWS (weekly contact hours) and course language available)
- **08-FD-Ch-BM-Did-2-092: S** (no information on SWS (weekly contact hours) and course language available)

#### Method of assessment
- Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

- **Assessment in module component 08-FD-Einf-1-092: Introduction in Chemistry Education**
  - 3 ECTS, Method of grading: numerical grade
  - written examination (approx. 90 minutes)
  - Language of assessment: German or English

- **Assessment in module component 08-FD-Ch-BM-Did-2-092: Generation and Utilization of learning Aids**
  - 2 ECTS, Method of grading: (not) successfully completed
  - presentation (approx. 20 minutes)
  - Language of assessment: German or English

#### Referred to in LPO I
- § 36 (1) 7. Didaktik der Grundschule Chemie
- § 38 (1) 1. Didaktik der Hauptschule Chemie
- § 38 (1) 1. Didaktik der Mittelschule Chemie
- § 42 Chemie Fachdidaktik
- § 62 (1) 6. Chemie Didaktik

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### Concepts of Teaching Chemistry

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<tbody>
<tr>
<td>5</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
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</table>

#### Courses
- **08-FD-SchulUms-1-092: S** (no information on SWS (weekly contact hours) and course language available)
- **08-FD-SchulUms-Did-2-092: S** (no information on SWS (weekly contact hours) and course language available)

#### Method of assessment
- Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

- **Assessment in module component 08-FD-SchulUms-1-092: Technical Contents and Practicabilities in Schools**
  - 3 ECTS, Method of grading: numerical grade
  - Testat (exam, approx. 20 minutes)
  - Language of assessment: German or English

- **Assessment in module component 08-FD-SchulUms-Did-2-092: Theoretical Basics of School-Chemistry**
  - 2 ECTS, Method of grading: numerical grade
  - written examination (approx. 45 minutes)
  - Language of assessment: German or English

#### Referred to in LPO I
- § 36 (1) 7. Didaktik der Grundschule Chemie
- § 38 (1) 1. Didaktik der Hauptschule Chemie
- § 38 (1) 1. Didaktik der Mittelschule Chemie
- § 42 Chemie Fachdidaktik
Social Forms in Chemistry Learning and Extracurricular Sites

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
</tbody>
</table>

Courses
- 08-FD-HS-Did-1-092: S (no information on SWS (weekly contact hours) and course language available)
- 08-FD-HS-Did-2-092: Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment
Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component 08-FD-HS-Did-1-092: Social Forms in Chemistry Learning at Comprehensive Schools
- 3 ECTS, Method of grading: numerical grade
- presentation (approx. 45 minutes)
- Language of assessment: German or English

Assessment in module component 08-FD-HS-Did-2-092: Extracurricular Sites
- 2 ECTS, Method of grading: (not) successfully completed
- presentation of a field trip to out-of-classroom learning environments (approx. 45 minutes)
- Language of assessment: German or English

Freier Bereich (general as well as subject-specific electives) (0-15 ECTS credits)
Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as subject-specific electives) (Section 9 LASPO (general academic and examination regulations for teaching-degree programmes)). To achieve the required number of ECTS credits, students may take any modules from the areas below.

Freier Bereich -- interdisciplinary: The interdisciplinary additional offer for a teaching degree can be found in the respective Annex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt".

Subject-specific Extra Skills
(Freier Bereich (general as well as subject-specific electives) -- subject specific)

08-PC-GHR-102-m01 Physical Chemistry (teaching degree for secondary schools)

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
</tbody>
</table>

Courses
- V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment
written examination (approx. 60 minutes)

Referred to in LPO I
§ 42 (1) 1. Chemie "Allgemeine und Anorganische Chemie" und "Physikalische und Analytische Chemie"

08-AC2-LAGY-102-m01 Inorganic Chemistry of the Elements (teaching degree for secondary schools)

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
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</table>

Courses
- V (no information on SWS (weekly contact hours) and course language available)

Method of assessment
a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)
- Language of assessment: German or English

Referred to in LPO I
§ 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>ECTS</th>
<th>Duration</th>
<th>Method of Grading</th>
<th>Modul Level</th>
<th>courses</th>
<th>Language of Assessment</th>
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</thead>
<tbody>
<tr>
<td>08-OC-Prakt-GHR-092-m01</td>
<td>Organic Chemistry - laboratory course (teaching degree for secondary schools)</td>
<td>5</td>
<td>1 semester</td>
<td>(not) successfully completed</td>
<td>undergraduate</td>
<td>P (no information on SWS (weekly contact hours) and course language available)</td>
<td>German or English</td>
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<tr>
<td>08-PC-VKM-LA-102-m01</td>
<td>Basic Mathematics (teaching degree)</td>
<td>2</td>
<td>1 semester</td>
<td>(not) successfully completed</td>
<td>undergraduate</td>
<td>V + Ü (no information on SWS (weekly contact hours) and course language available)</td>
<td>German or English</td>
</tr>
<tr>
<td>08-Ch-GH-ÜiV-092-m01</td>
<td>Exercises in Experimental Presentation</td>
<td>6</td>
<td>1 semester</td>
<td>(not) successfully completed</td>
<td>undergraduate</td>
<td>This module comprises 3 module components. Information on courses will be listed separately for each module component.</td>
<td>German or English</td>
</tr>
</tbody>
</table>

**Courses**:
- 08-Ch-LA-ÜiV-1-092: Ü (no information on SWS (weekly contact hours) and course language available)
- 08-Ch-LA-ÜiV-2-092: Ü (no information on SWS (weekly contact hours) and course language available)
- 08-Ch-GH-ÜiV-3-092: Ü (no information on SWS (weekly contact hours) and course language available)

**Method of assessment**:
- Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

**Assessment in module component 08-Ch-LA-ÜiV-1-092**: Exercises in Experimental Presentation (Inorganic Chemistry)
- 2 ECTS, Method of grading: (not) successfully completed
- talk with demonstrations (approx. 45 minutes)
- Assessment offered: once a year, winter semester
- Language of assessment: German or English

**Assessment in module component 08-Ch-LA-ÜiV-2-092**: Exercises in Experimental Presentation (Organic Chemistry)
- 2 ECTS, Method of grading: (not) successfully completed
- talk with demonstrations (approx. 45 minutes)
- Assessment offered: once a year, winter semester
- Language of assessment: German or English

**Assessment in module component 08-Ch-GH-ÜiV-3-092**: Exercises in Experimental Presentation (Physical Chemistry) for Primary School and Secondary Public School Teachers
- 2 ECTS, Method of grading: (not) successfully completed
- talk with demonstrations (approx. 45 minutes)
- Assessment offered: once a year, winter semester
- Language of assessment: German or English

Referred to in LPO I: § 42 (1) 2. Chemie "Organische und Bioorganische Chemie"
<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
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<tr>
<td>08-OC1-GHR-092-m01</td>
<td>Organic Chemistry 1 (teaching degree for secondary schools)</td>
<td>6</td>
<td>1 semester</td>
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<tr>
<td>Courses</td>
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<td>Method of assessment</td>
<td>a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</td>
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<td>Languages</td>
<td>German or English</td>
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<tr>
<td>Other prerequisites</td>
<td>Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).</td>
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<td>in LPO I</td>
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<tr>
<td>08-OC2-GHR-092-m01</td>
<td>Organic Chemistry 2 (teaching degree for secondary schools)</td>
<td>7</td>
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<td>undergraduate</td>
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<td>Method of assessment</td>
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<td>in LPO I</td>
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<tr>
<td>08-BC-GHR-092-m01</td>
<td>Biochemistry (teaching degree for secondary schools)</td>
<td>4</td>
<td>1 semester</td>
<td>numerical grade</td>
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<tr>
<td>Courses</td>
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<td>Other prerequisites</td>
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<tr>
<td>08-FD-WPF-WA-092-m01</td>
<td>Guidance in Self-reliant Scientific Work</td>
<td>2</td>
<td>1 semester</td>
<td>(not) successfully completed</td>
<td>undergraduate</td>
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<tr>
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<tr>
<td>08-FD-WPF-LLL-092-m01</td>
<td>4</td>
<td>1 semester</td>
<td>(not) successfully completed</td>
<td>undergraduate</td>
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</table>

**Preparation of Exams (Primary and Secondary Public Scholl Teachers)**

**Method of assessment**: written examination (approx. 30 minutes)

**Courses**: S (no information on SWS (weekly contact hours) and course language available)

**Extracurricular Sites**

**Method of assessment**: This module comprises 2 module components. Information on courses will be listed separately for each module component.

- 08-FD-WPF-LLL-1-092: S (no information on SWS (weekly contact hours) and course language available)
- 08-FD-WPF-LLL-2-092: P (no information on SWS (weekly contact hours) and course language available)

**Method of assessment**: Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

**Assessment in module component 08-FD-WPF-LLL-1-092**: Opportunities of Extracurricular Sites

- 2 ECTS, Method of grading: (not) successfully completed
- presentation of a project (approx. 30 minutes)
- Language of assessment: German or English

**Assessment in module component 08-FD-WPF-LLL-2-092**: School Lab

- 2 ECTS, Method of grading: (not) successfully completed
- successful supervision of experiments in learn-teach-lab
- Language of assessment: German or English
Inorganic Chemistry 1 (teaching degree)

<table>
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<td>undergraduate</td>
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</table>

**Courses**

This module comprises 3 module components. Information on courses will be listed separately for each module component.

- 08-AC1-1-102: V + V + Ü (no information on SWS (weekly contact hours) and course language available)
- 08-AC1-LA-2-102: P (no information on SWS (weekly contact hours) and course language available)
- 08-AC1-LA-3-102: V (no information on SWS (weekly contact hours) and course language available)

**Method of assessment**

Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

**Assessment in module component 08-AC1-1-102: Principles of Inorganic Chemistry**

- 10 ECTS, Method of grading: numerical grade
- a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)
- Language of assessment: German or English
- Other prerequisites: Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).

**Assessment in module component 08-AC1-LA-2-102: Inorganic and Analytical Chemistry (lab) (teaching degree)**

- 7 ECTS, Method of grading: (not) successfully completed
- pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 5 to 10 pages)
- Assessment offered: once a year, summer semester
- Language of assessment: German or English

**Assessment in module component 08-AC1-LA-3-102: Inorganic Chemistry 1 (accompanying lecture) (teaching degree)**

- 3 ECTS, Method of grading: numerical grade
- a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)
- Language of assessment: German or English

**other prerequisites**

By way of exception, additional prerequisites are listed in the section on assessments.

**Thesis (10 ECTS credits)**

Preparation of a written Hausarbeit (thesis) in accordance with the provisions of Section 29 LPO I (examination regulations for teaching-degree programmes) is a prerequisite for teaching degree students to be admitted to the Erste Staatsprüfung (First State Examination). In accordance with the provisions of Section 29 LPO I, students studying for a teaching degree Mittelschule may write this thesis in the subject Didaktik einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule),
In the subject they selected as Unterrichtsfach (subject studied with a focus on the scientific discipline) or in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdisciplinary thesis.

<table>
<thead>
<tr>
<th>08-Ch-HA-DF-HS-092-m01</th>
<th><strong>Admission work (Chemistry for Secondary School Teachers)</strong></th>
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<tr>
<td></td>
<td><strong>ECTS</strong></td>
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</tr>
<tr>
<td>Courses</td>
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<tr>
<td>Method of assessment</td>
<td>written thesis (Zulassungsarbeit, approx. 40 pages)</td>
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<td>Language of assessment</td>
<td>German, exceptions in accordance with Section 29 LPO I (examination regulations for teaching degree programmes)</td>
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<tr>
<td>Modules successfully completed</td>
<td>Where applicable, specific modules/module components as specified by supervisor.</td>
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