Minor Digital Humanities and Social Analytics `2017-2018
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Digital Humanities and Social Analytics in Practice

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<td>Faculteit der Geesteswetenschappen</td>
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<tr>
<td>Coördinator</td>
<td>dr. L.M. Aroyo</td>
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<tr>
<td>Examinator</td>
<td>dr. L.M. Aroyo</td>
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<td>Lesmethode(n)</td>
<td>Werkcollege</td>
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**Doel vak**
The goal of the course is to get acquainted with digital humanities research, by collaborating in current project through an intensive internship of one month. Students learn to put digital theory into practice, applying the knowledge gained from previous minor courses to a real-world project.

**Inhoud vak**
Throughout the Digital Humanities minor, you have learned about the field of digital humanities, you have engaged in critical reflection on the tools and methods used, and explored the way digital techniques influence current research. The goal of the course is to put theory into practice, applying the knowledge gained from the minor to a real-world project. The course is set up as an internship at a current digital humanities project. Students can choose a digital humanities project that is close to their field of study and interest. The projects are housed by cultural heritage institutions, or research labs. You will be guided by one tutor from UvA or VU and one cultural heritage professional. Through these intensive "collaboratories" students learn practical application of digital humanities knowledge, tools and methods.

**Onderwijsvorm**
Project-based learning. Group work, weekly tutor meeting per group, final group presentation.

**Toetsvorm**
Final grade is based on assessment of (1) final report, (2) final presentation, (3) self-assessment, (4) final product.

**Literatuur**
Depending on the chosen project, t.b.a.

**Vereiste voorkennis**
The Digital Humanities minor is an interdisciplinary minor, welcoming both computer science students and humanities students of all disciplines: linguistics, media, communication, history, literature and arts. In order to participate in the course "Digital Humanities in Practice" you have at least completed two courses of the minor, as this course is set up as a practical application of knowledge, tools and methods discussed in the previous courses.
Doelgroep
Minor Digital Humanities, BA Media and Information (UVA), BA specialisation e-humanities

Intekenprocedure
For UvA students: For registering for the VU-courses, you need to enrol as a guest student at VU for the BA History.
Read how to in Dutch: http://www.vu.nl/nl/opleidingen/toelating-en-inschrijving/bijvakken

Overige informatie
This module is taught at the VU. Module registration at the VU is required.

Digitization: from Life to Data (UvA)

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Doel vak
At the end of this course the student is able to:
• understand the complexity and challenges of (global) data developments.
• understand the relevance of data-oriented research for humanities and social sciences.
• apply their knowledge by developing their own research projects.
• apply various computational techniques such as structuring and parsing digital data.
• critically reflect on the implications of the selection, structuring and manipulation of data for the outcome of their work.

Inhoud vak
The humanities and social sciences are confronted with more and more digital material. Digital methods allow researchers to study relations between objects from a different perspective and on a larger scale. How can humanities researchers and social scientists use digital data to support their research? What are the digital tools at their disposal and how can these tools provide new perspectives and research questions? This tutorial looks at the Humanities from a data-oriented perspective; it introduces students to the different stages of data-driven research in the Humanities: how to obtain data (e.g. scraping), extract information (parsing), and find patterns (mining). Students will apply their knowledge of these techniques (and their associated tools) by developing their own research project.

Onderwijsvorm
Tutorial

**Toetsvorm**
Assignments and final paper. For dates and deadlines see the timetable and/or the course manual.

**Literatuur**
All material will be made available via Canvas.

**Doelgroep**
This course is part of the UVA/VU Minor Digital Humanities and Social Analytics

**Intekenprocedure**
Module registration at the UvA is required. Note that registration will take place from 13 juni t/m 27 juni.
For more information see:

**Overige informatie**
This module is taught at the UvA, Capacity group Media Studies, dr. K. Beelen (coördinator)

**Introduction to Information and the Digital (UvA)**

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**Doel vak**
At the end of the course the student is able to:
- identify and discuss the different types and definitions of information
- understand in outline current theories of information and information use;
- determine how information is applied in different contexts within the humanities and creative industries
- identify and describe different institutional implementations of information and information systems
- recognise and discuss the differences between institutionalised information and its use, and public contexts of information and its use.

**Inhoud vak**
Information is a fundamental constituent of all areas of public and private life. Whether it's in our media, cultural or economic activities of our social or professional lives, never before has information been so omnipresent. This course introduces you to the study of information as a pervasive and foundational part of public and professional
practice, and its social and technical implications. You will be introduced to the concepts of information as data and resource; you will confront both the history and contemporary contexts of archives and digital archivalism; what is the relation of information and data, its assemblage and use; information analysis and visualisation in the humanities; citizen witnessing, social media and ubiquity; and contemporary social contexts of search and discovery.

**Onderwijsvorm**
Lectures, seminars.

**Toetsvorm**
Assignments and final paper. For dates and deadlines see the timetable and/or the course manual.

**Literatuur**
All material will be available via Canvas.

**Doelgroep**
This course is part of the UVA/VU Minor Digital Humanities

**Intekenprocedure**
Module registration at the UvA is required. Note that registration will take place from 13 juni t/m 27 juni.
For more information see:
or: Onderwijsadministratie BG2 +31 20 5254952

**Overige informatie**
This module is taught at the UvA; UVA code 118211006Y.

### Programming for Humanities and Social Sciences

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<td>dr. H.D. van der Vliet</td>
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<tr>
<td>Docent(en)</td>
<td>dr. H.D. van der Vliet, M.C. Postma MA, F. Ilievski, C.M. van Son</td>
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**Doel vak**
Goals of this course:
Get to know the basics of the Python programming language
Become an independent programmer, who is able to find solutions to new problems

Skills you will acquire during this course:
Learn how to deal with unstructured and structured data
Learn how to extract relevant statistics from large amounts of data
Learn how to share your code and results
**Inhoud vak**
As many humanities researchers use textual resources as their primary object of inquiry, you learn how to analyze the growing amount of digital text using the Python programming language. No programming knowledge is required; we believe that anyone can learn how to program.

You will learn how to extract information from text corpora; deal with different file types (plain text, CSV, JSON); deal with large amounts of data; and visualize and share your results. We will focus on readability and understandability of your code, so that you will be able to share it with others, and reuse your code in the future.

This is a practical course, in which you will get a lot of hands-on experience. Due to the nature of this course, active participation is required.

**Onderwijsvorm**
Interactive practical sessions. Although parts of the lectures will be about programming and language processing theory, the focus is on having interactive and practical sessions. Students are expected to actively participate and ask questions.

**Toetsvorm**
Bi-weekly assignments (60%): The assignments are designed to practice your programming and problem solving skills. Moreover, they allow us to keep track of your progress, and identify topics that require more attention in class.

Midterm exam (40%): The midterm exam is designed to test your knowledge of Python. To pass this course, you need a passing grade (at least 5.5) on the midterm.

**Literatuur**
To be announced on Canvas. All materials are freely available online. The course materials for 2016/2017 can be found here: https://github.com/cltl/python-for-text-analysis

**Vereiste voorkennis**
none

**Doelgroep**
Students of the minor Digital Humanities and Social Analytics. Open to all other Bachelor students.

**Overige informatie**
This course is part of the minor Digital Humanities and Social Analytics and open for all interested students. Students are required to attend at least 80% of the classes. Students who fail to do so without a valid reason will be excluded from the course.

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### Text Mining for Digital Humanities

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**Doel vak**

In this course, students are trained in systematic text analysis. In particular, we explore the process of identifying and annotating information in historic and contemporaneous texts such as novels, lyrics, letters, newspaper articles, movie scripts, blogs and other other social media texts using manual and automatic methods. They will learn the implications for the theoretical models and concepts they are familiar with in their own discipline. Students will work on a research project of their choice and annotate them in a interdisciplinary context using different tools and methods. They will apply expert and crowd annotations, develop code-books and compare the results. Finally, they will use a machine-learning program for analyzing text and reflect on the performance of the automatic annotation. We will focus on high-level semantic annotations of, for example, (historic) events, entities and emotions that are of interest to a broader range of humanities and social and computer science students. Students present their findings in a research paper.

**Inhoud vak**

This module addresses the process of systematic text analysis through human and automatic annotation. Annotations make information that is implicit in data explicit allowing researchers to search their data systematically. This kind of research forces Humanities scholars and social scientists to represent their Interpretation of texts in a data structure. Computer science students will learn about how text mining technologies can be applied in Humanities and Social Sciences. Annotation requires the use of some type of interpretation model and it results in an analysis that can be compared across annotators. As such, annotation can be seen as an important step towards the formalization of humanities and social science as a discipline. The degree to which annotators agree or disagree (the so-called Inter Annotator Agreement) tells us something about the reproducibility of the interpretation process, the matureness of theoretical notions and the criteria used to apply them to real data. Different backgrounds of annotators will lead to different types of annotations. Linguists, (cultural-)historians, social-scientists, and literature-scientists will consider sources and data differently and consequently come to different annotations of the same source/data. The same holds for experts and non-experts. The former are traditionally involved in assigning metadata to sources, the latter do the same in crowd-sourcing initiatives. Finally, annotated data can be used to train machines to do the same. How does this work? Can a machine do better than humans? How do you evaluate this?

**Onderwijsvorm**

Lecture, Seminar (2 hrs a week each)
Visualizing Humanities and Social Analytics

- Students will become familiar with the concepts of data visualization in Digital Humanities and Social Analytics, and acquire practical skills in data visualization techniques such as graphs and digital maps.
- Practical skills will include: processing of spatial data and creating appealing map visualizations in Google Earth, QGIS, ESRI Story Maps and other map services; and the quantitative analysis of textual data (e.g. (social) media data) through AmCAT and R.
- Students will learn to critically reflect on the implications of the selection, structuring and manipulation of data as well as the choice of visualization techniques to present the outcomes of research projects.
- Students will learn to position their own work in the field of Digital Humanities and Social Analytics.
- Students will learn to apply their knowledge by developing their own research projects around a given dataset.
- Students will learn to collaborate in an interdisciplinary group, manage group processes, and communicate their results to an audience of peers and teachers.

Inhoud vak
This course will offer practical training in digital visualization techniques, placed in the broader scope of Digital Humanities and Social Analytics. Visualization of data plays an important role in exploring and analysing quantitative data deriving from large and complex datasets, such as relational databases and text corpora varying from 17th century literature to newspaper archives to tweets. Visualizations can be used both to present the end results of research projects as well as to support all phases of the hermeneutic cycle of questioning, searching, aggregating and analysing data. They may reveal patterns and provide leads for new research questions. In this course students will become familiar with a number of visualization tools and learn to reflect critically on the way they can be used.

An important part of the classes will entail practical training in the processing of spatial and textual data. This course invites you to choose a personal research topic and will teach you basic practical skills in digital mapping and other visualisations to use in your own research. Digital mapping is a powerful visualization tool for both social science and humanities students who study events in space and time. The visualization of textual data will help you to manage and analyse large corpora of texts. You will define and investigate a research question, learn how to create and structure data and how to uncover patterns in your data through visualization. At the end of the course you will be able to use attractive visualizations to present your research results in both oral and written communications.

**Onderwijsvorm**
Seminar, 2x2

**Toetsvorm**
Participation, assignments and presentation (40%), research paper (60%)

**Literatuur**
T.B.A.

**Aanbevolen voorkennis**
This course is designed for students who study the minor Digital Humanities and Social Analytics. For other students it would be helpful to familiarize with the basics of digital data in advance. Please contact the instructors for more information and advice.

**Doelgroep**
Students of the UvA & VU faculty of Humanities and Social Sciences, international exchange students as well as students of Informatics (UvA) and Computer Science (VU).

**Intekenprocedure**
This course is part of the joined UvA/VU Minor Digital Humanities and Social Analytics. This module is taught at the VU. Module registration at the VU is required for UvA students.

**Overige informatie**
This course is part of the minor Digital Humanities and Social Analytics. This module is taught at the VU. Module registration at the VU is required.