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Päivitetty 25.11.2017 MYA

MarvinSketch

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KEMIAN JA MATEMATIIKAN LEHTORI

HELSINGIN YLIOPISTON VIIKIN NORMAALIKOULU

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https://peda.net/p/myllyviita/marvinsketch

Sisältö

1. Lataaminen
2. Asentaminen
3. Lisenssikuvio
4. Ohjeet
5. Ohjelman käyttö

KYSELY:
https://peda.net/p/myllyviita/marvinsketch/tutkimus

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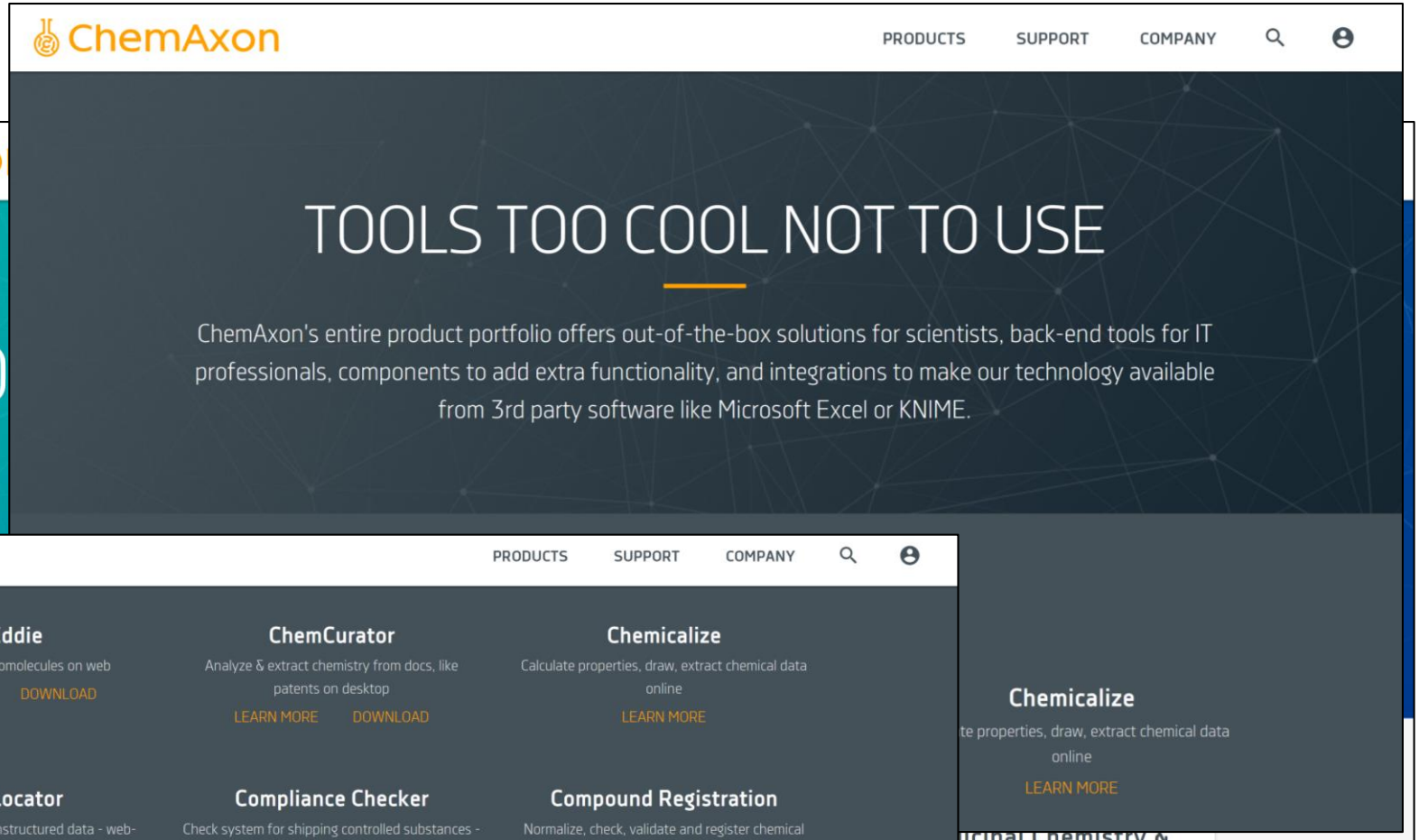
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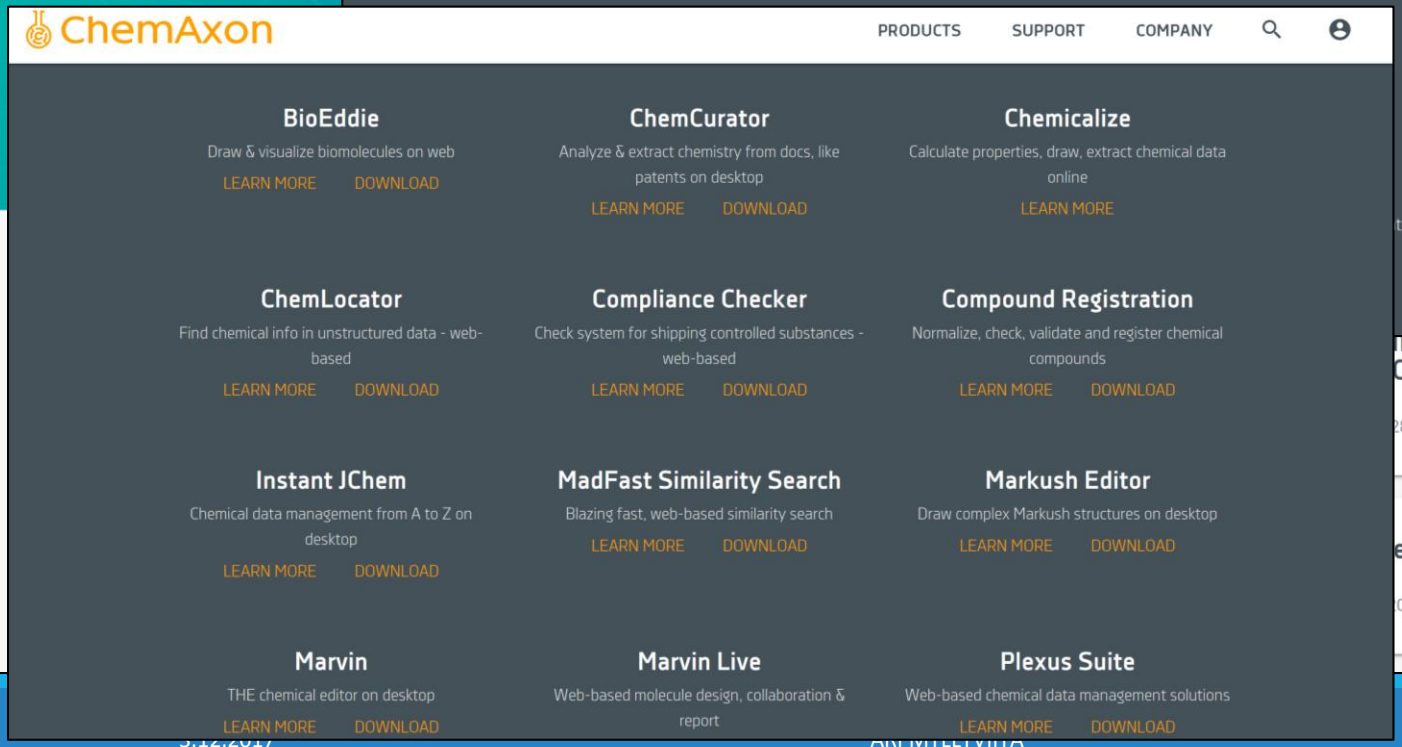
ChemAxon's entire product portfolio offers out-of-the-box solutions for scientists, back-end tools for IT professionals, components to add extra functionality, and integrations to make our technology available from 3rd party software like Microsoft Excel or KNIME.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Lataaminen

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Lataaminen

- Ohjelman voi **ladata osoitteesta**: https://www.chemaxon.com/products/marvin/marvinsketch/
  - **Opettaja:** Akateeminen lisenssi, opettajien kannattaa rekisteöityä ja hakea oppilaitos-lisenssin (tsekkaus vie muutaman päivän)
  - **Kaikki:** Varmista, toimiiko laitteessa 64-bittinen vai 32-bittinen versio (jos 64-versio ei toimi, kokeile 32-versiota)
- **Marvin Sketch** on koneelle asennettava ohjelma, **Marvin JS** on selaimessa toimiva ohjelma (kuten MolView), kyseisen työkalu on upotettu useaan palveluun, sen voi asentaa jopa omille www-sivuille

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PRODUCTS SUPPORT COMPANY LOG IN

Marvin

A full featured chemical editor for making science accessible

Marvin runs smoothly on desktops allowing you to import, draw, edit and publish your daily chemistry workflows. Marvin allows users to quickly draw molecules with the interface and advanced functionalities, such as: sprout drawing, customisable shortcuts, abbreviated groups, default and user-defined templates and context-sensitive popup menus.

PLAY VIDEO

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Create and Design

Marvin features an extensive set of functionalities to enable fast and accurate drawing of discrete chemical compounds, Markush structures, reactions and query molecules. Furthermore, these functionalities have built-in structure and valence checkers to provide guidance, and integrated property calculators to pull live instant results - upon your request. Not only is Marvin capable of drawing general organic

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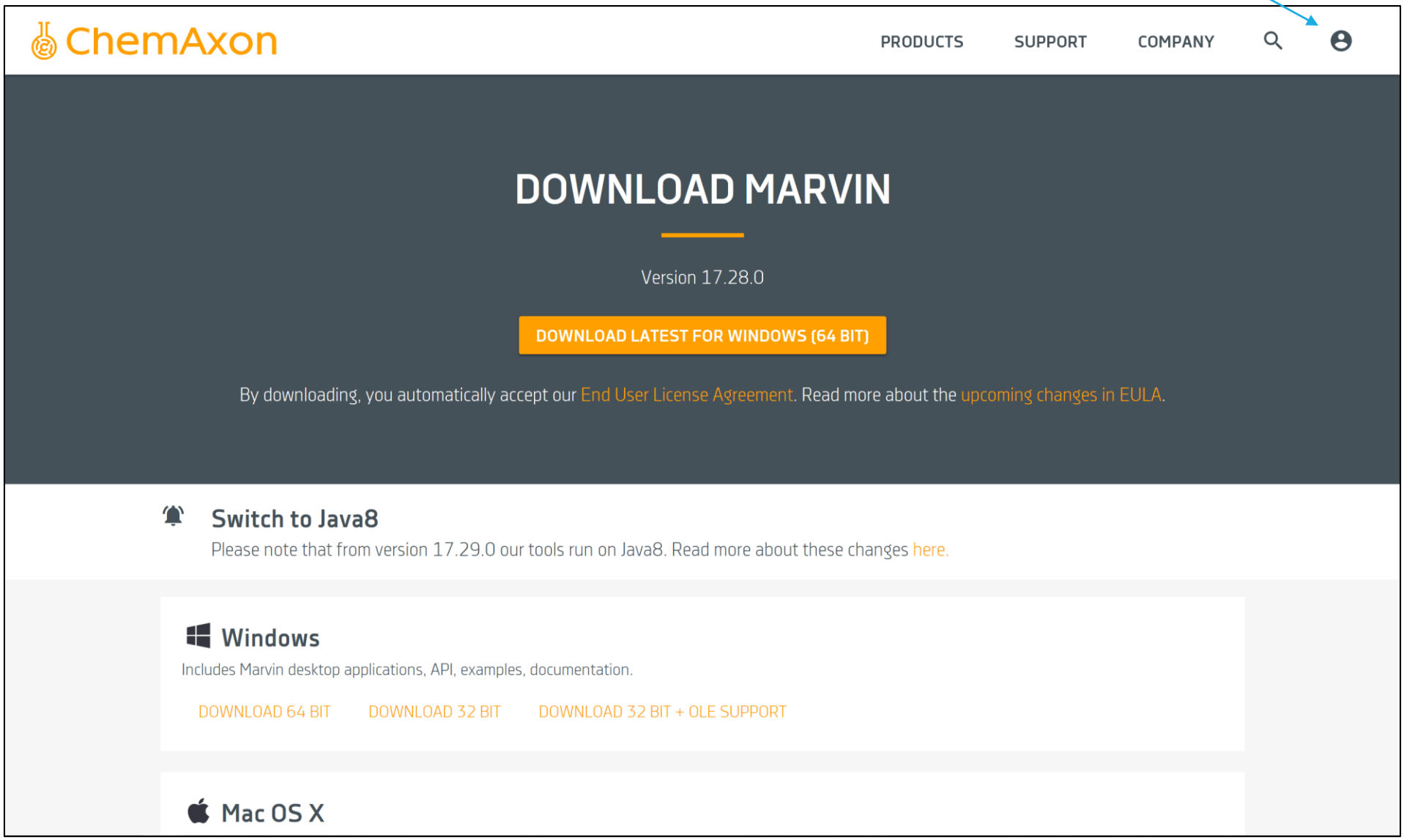
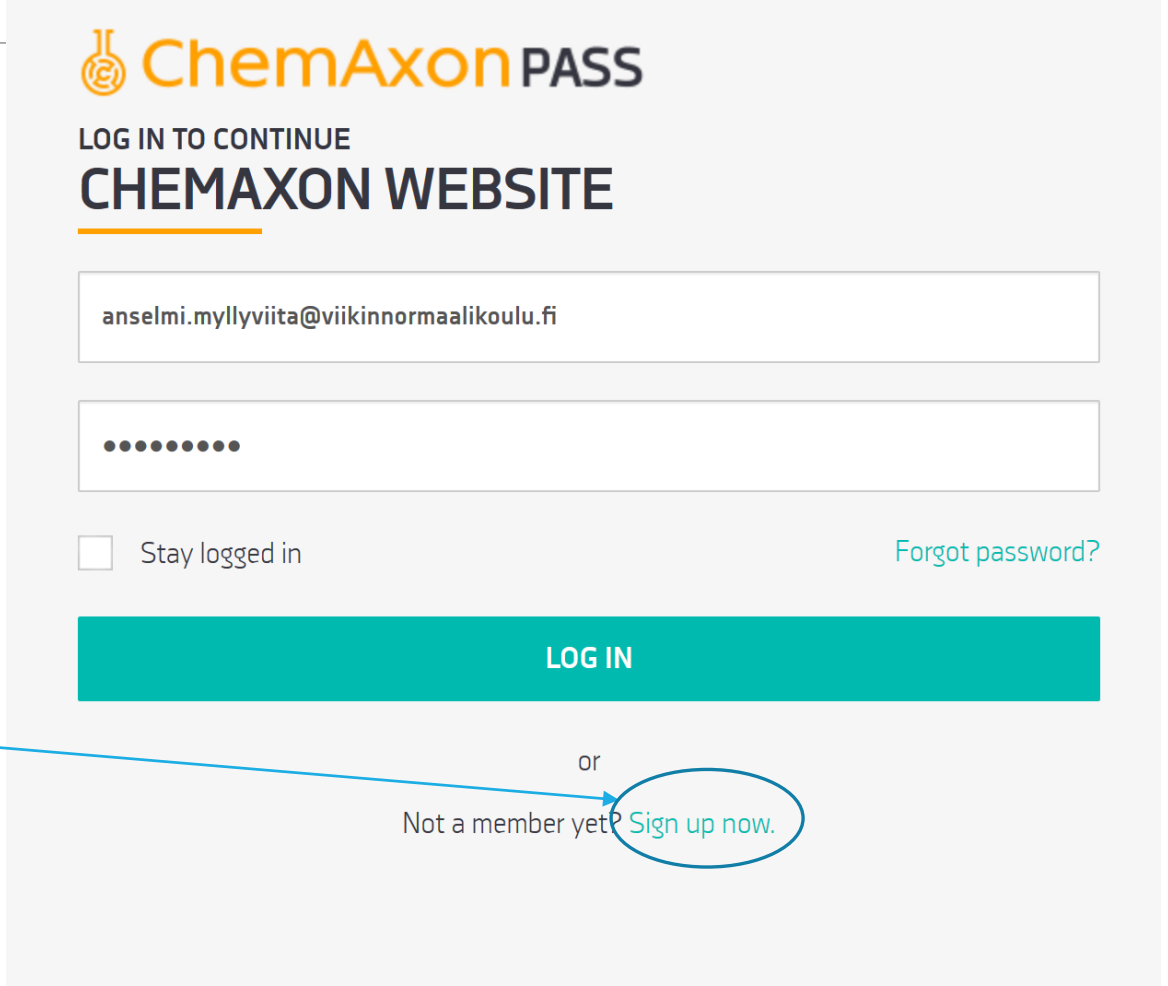
Jos on jo kirjautunut ChemAxon-sivuille



Kirjaudu järjestelmään ennen lataamista

JOS ET OLE VIELÄ REKISTERÖITYNYT



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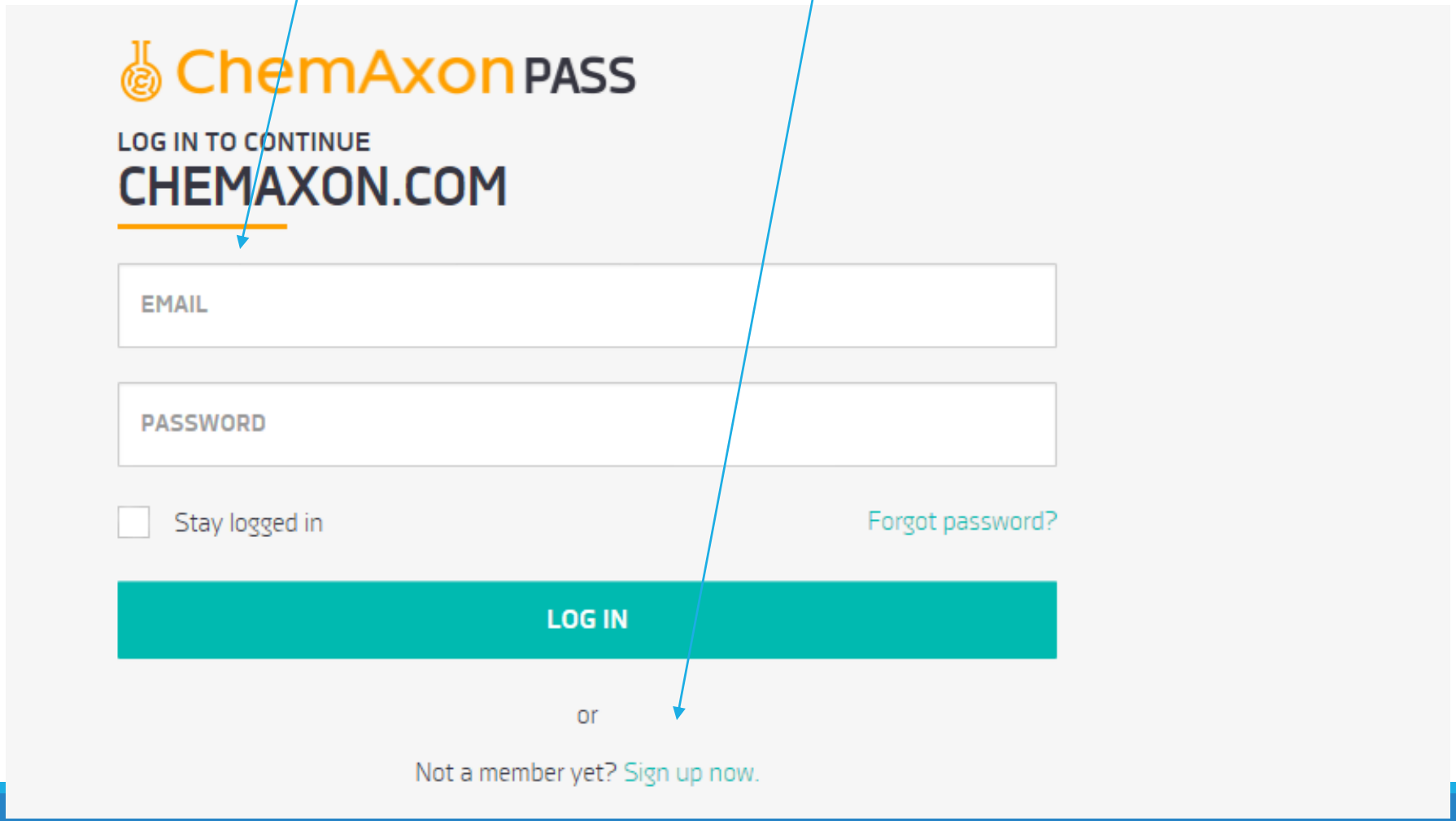
Kirjaudu tai rekisteröidy



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Tietosuoja - Ehdot

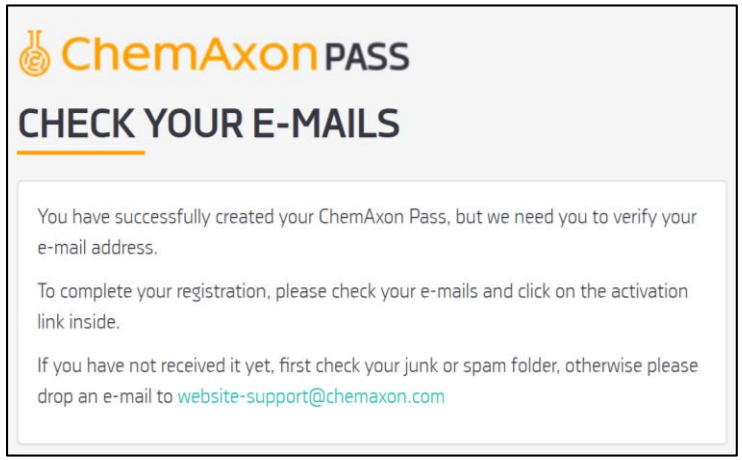
REGISTER

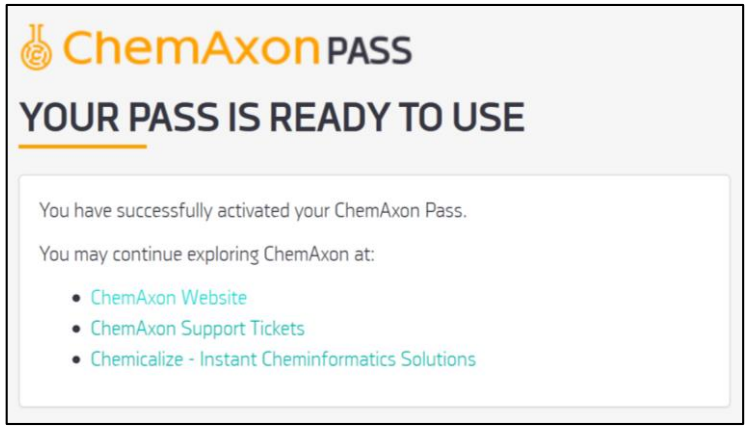
Lataaminen (jatkuu)

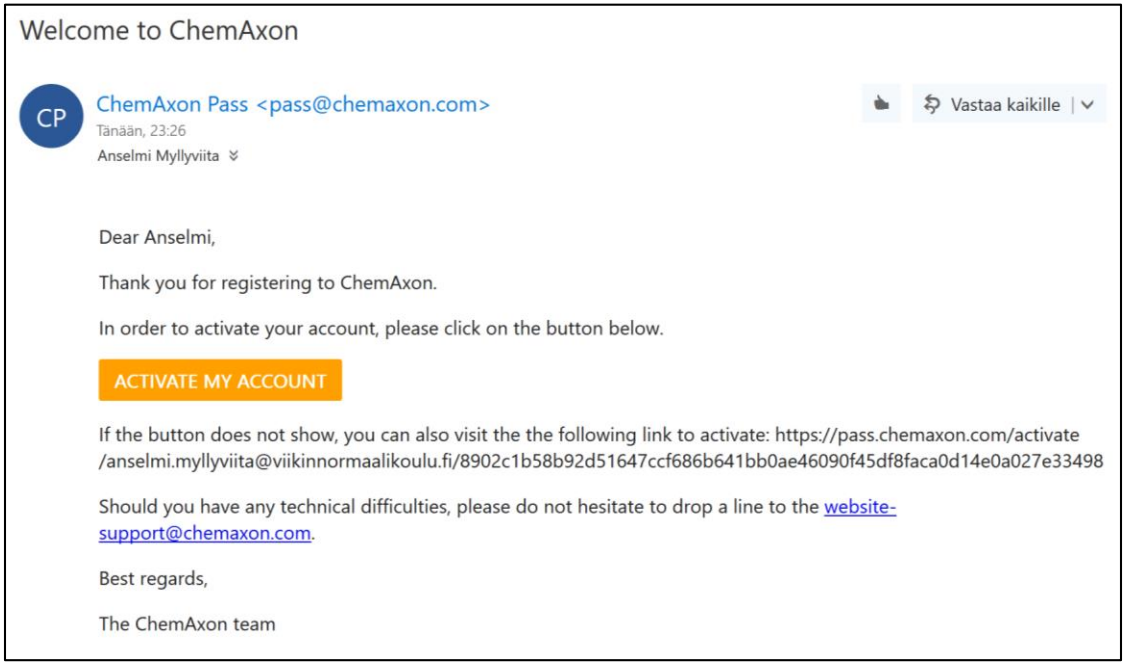
HUOM! Valitse oikea bittisyys

Rekisteröinti

VANHA??







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Asentaminen

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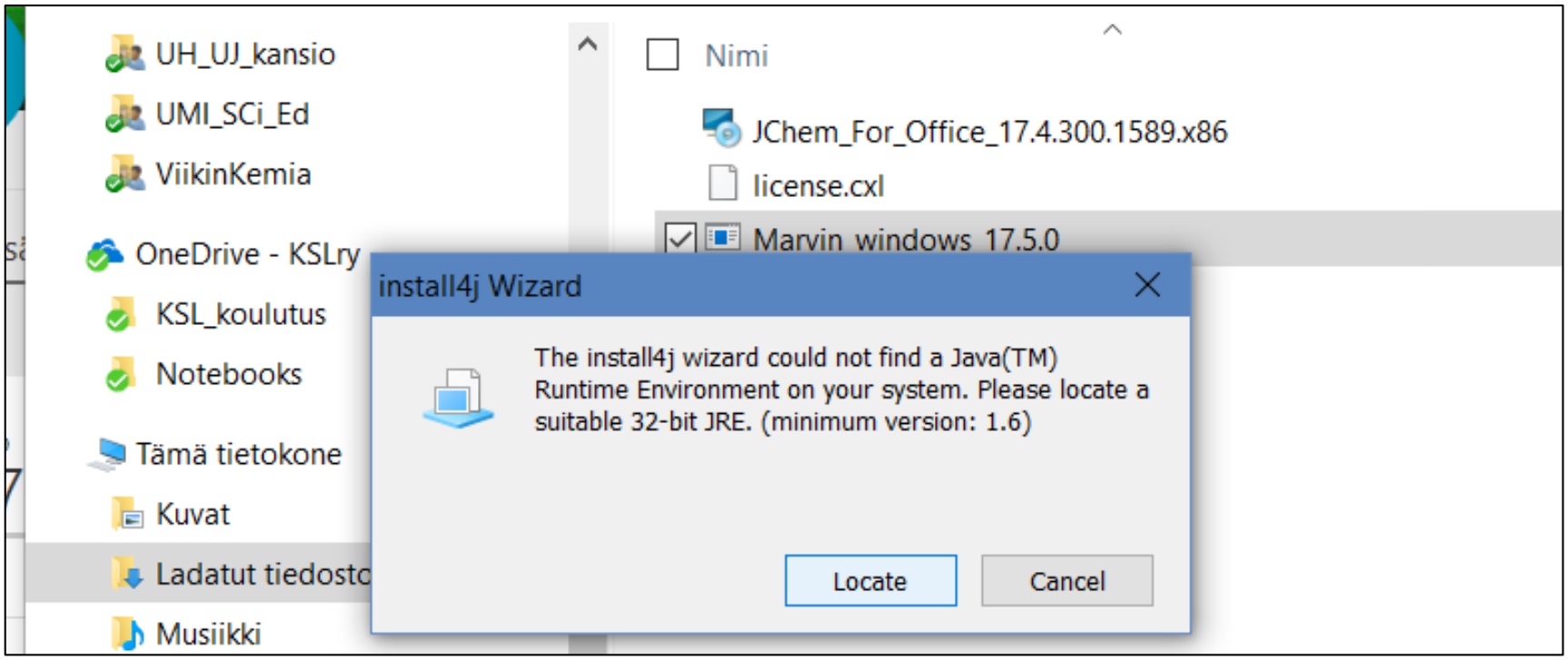
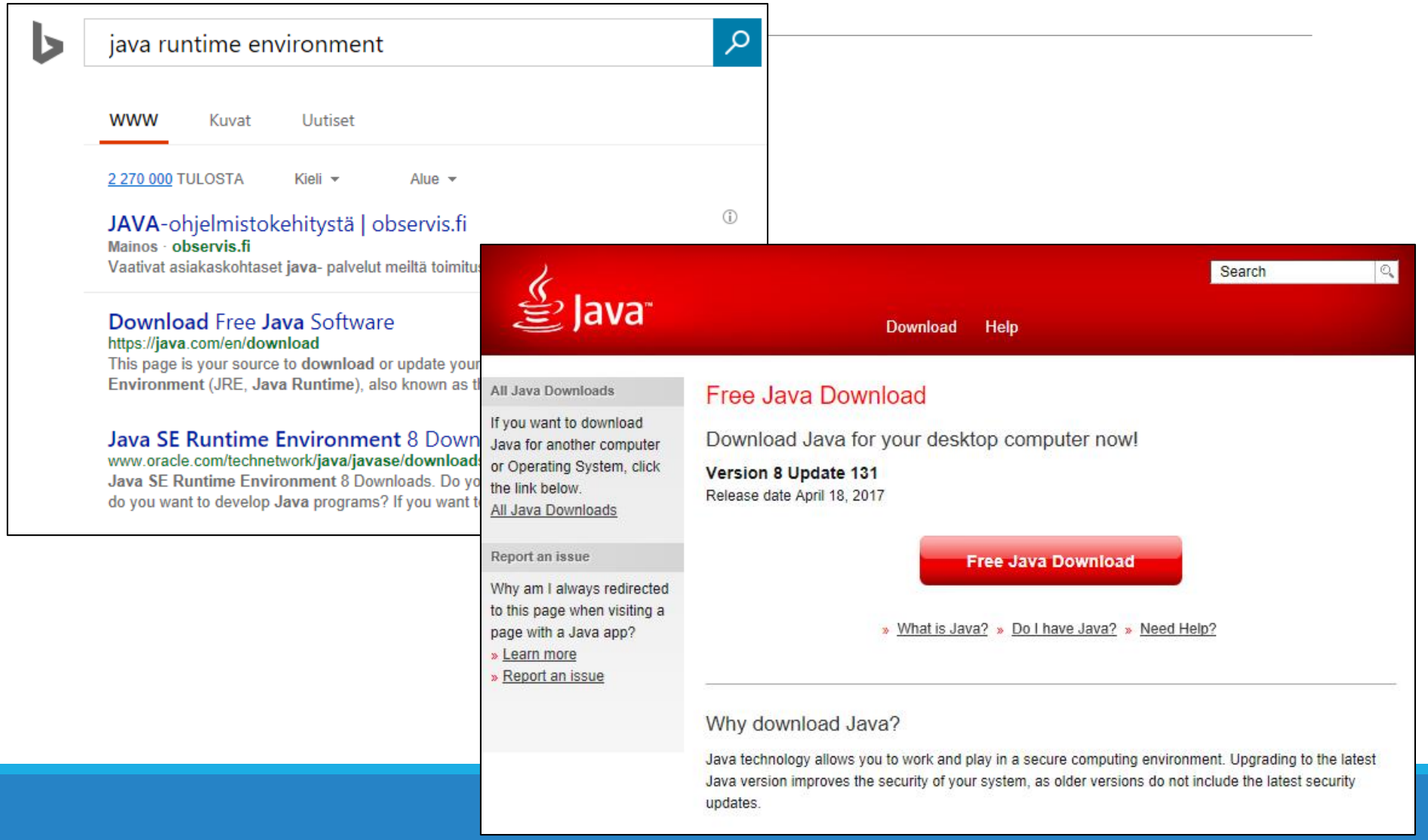
Asennuksen yhteydessä tarkistetaan Javan olemassaolo

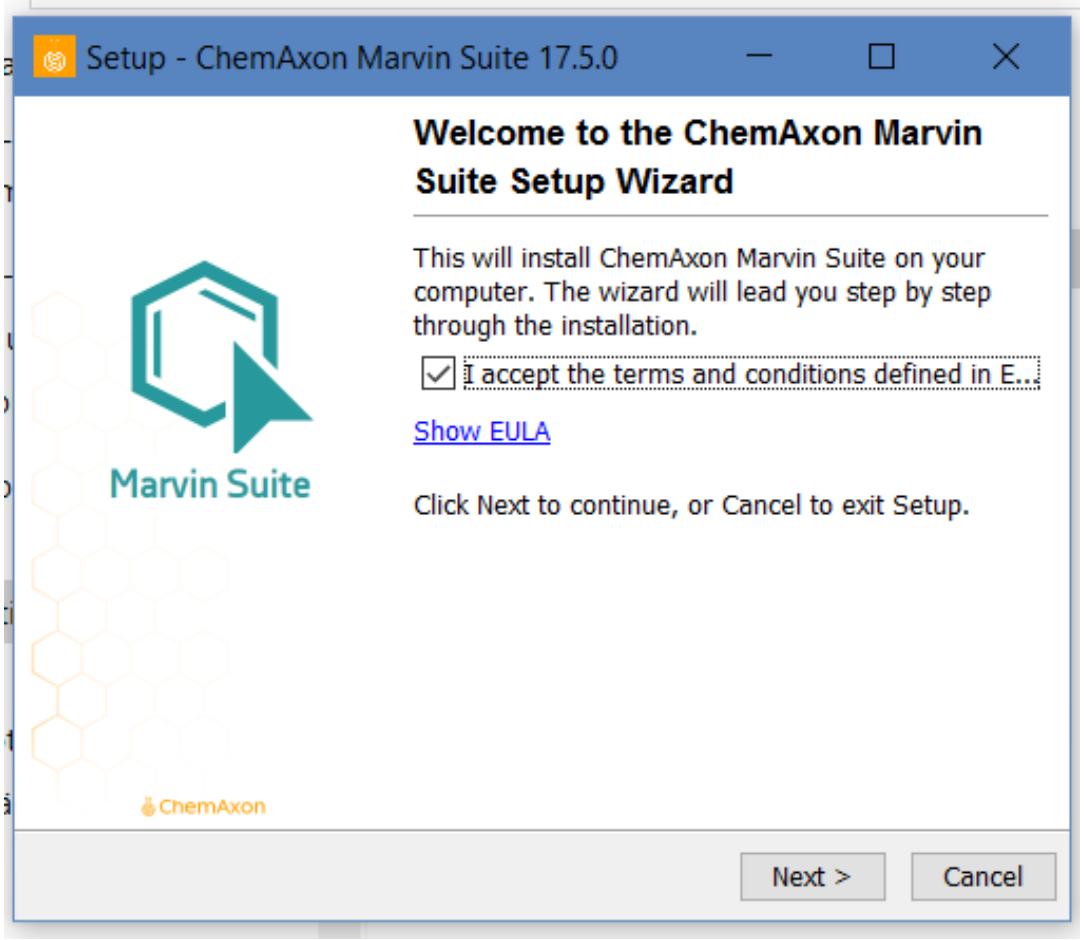


Javan asennus
(asennus vaatii admin –oikeudet)

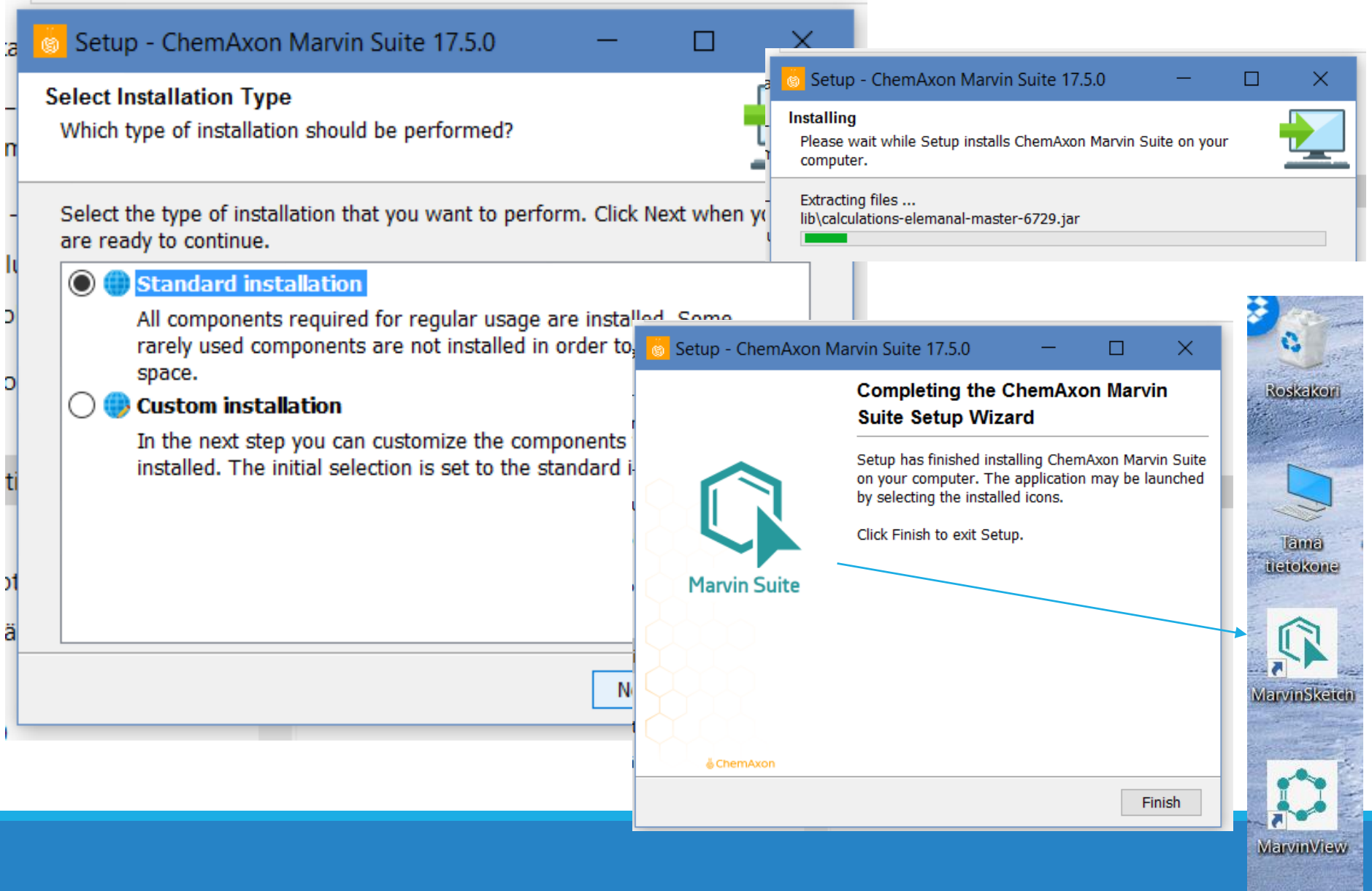


Marvin Suite -asennus

Kun Java-asennus on hoidettu, käynnistetään (Ladatut kansiosta) Marvin –ohjelman asennus



Marvin Suite –asennus 2



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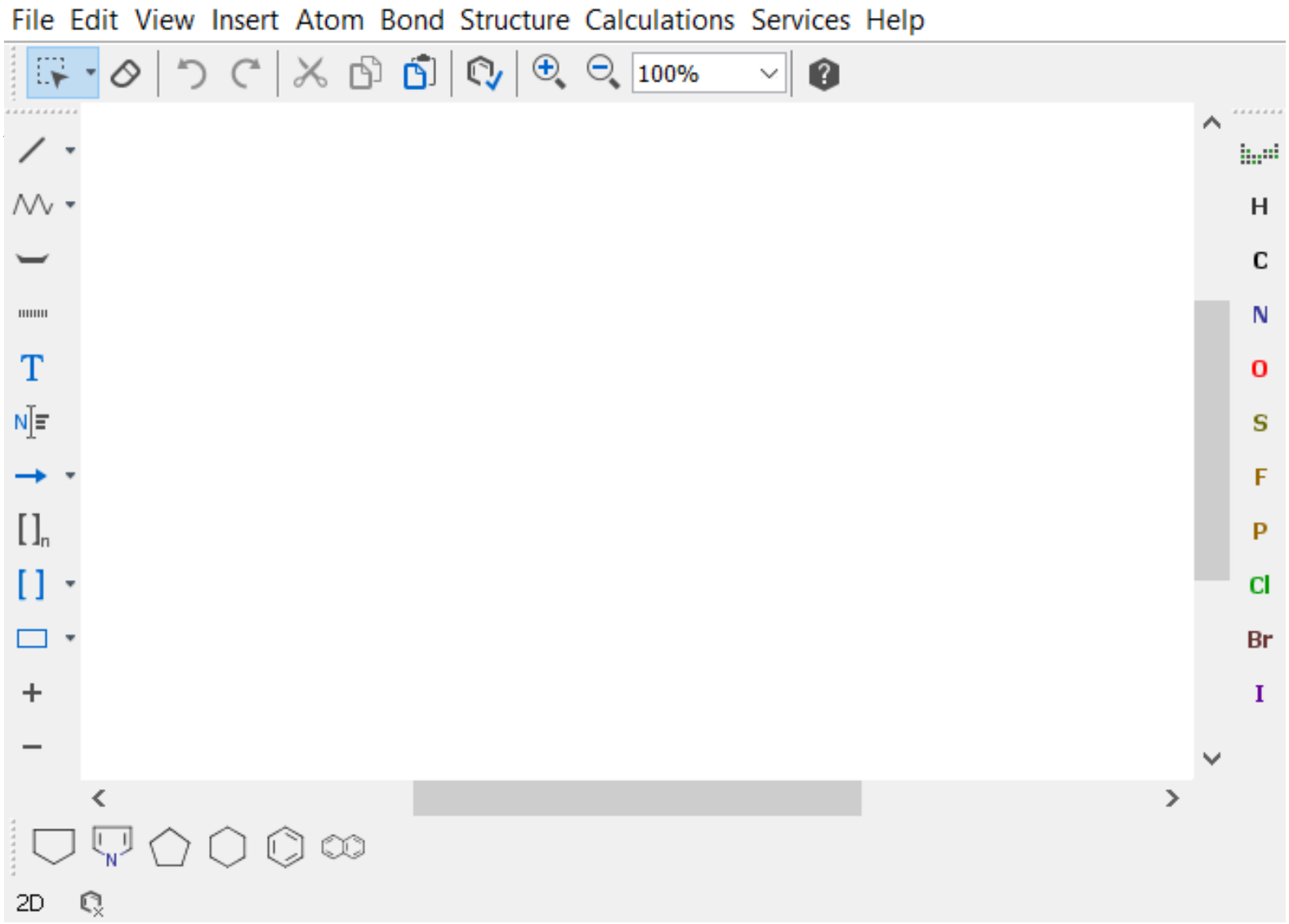
MarvinSketch



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Lisenssikuvio

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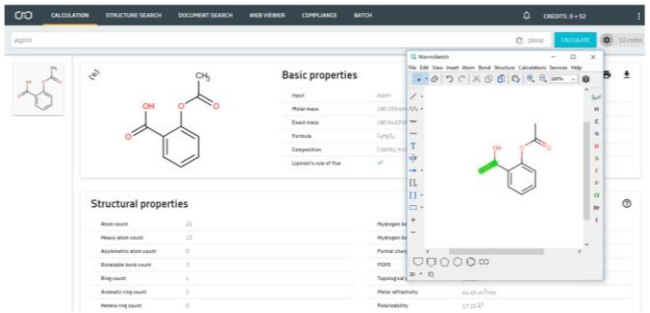
Free tools for chemical drawing and calculations

Chemicalize provides a variety of physico-chemical calculations and properties, chemical drawing and name - structure conversion as an online service. If you prefer a desktop tool, you can use Marvin - our advanced chemical editor - offers quality publication drawings, physico-chemical calculations and name - structure conversion too.

The free version of Marvin is for non-commercial, individual users only.



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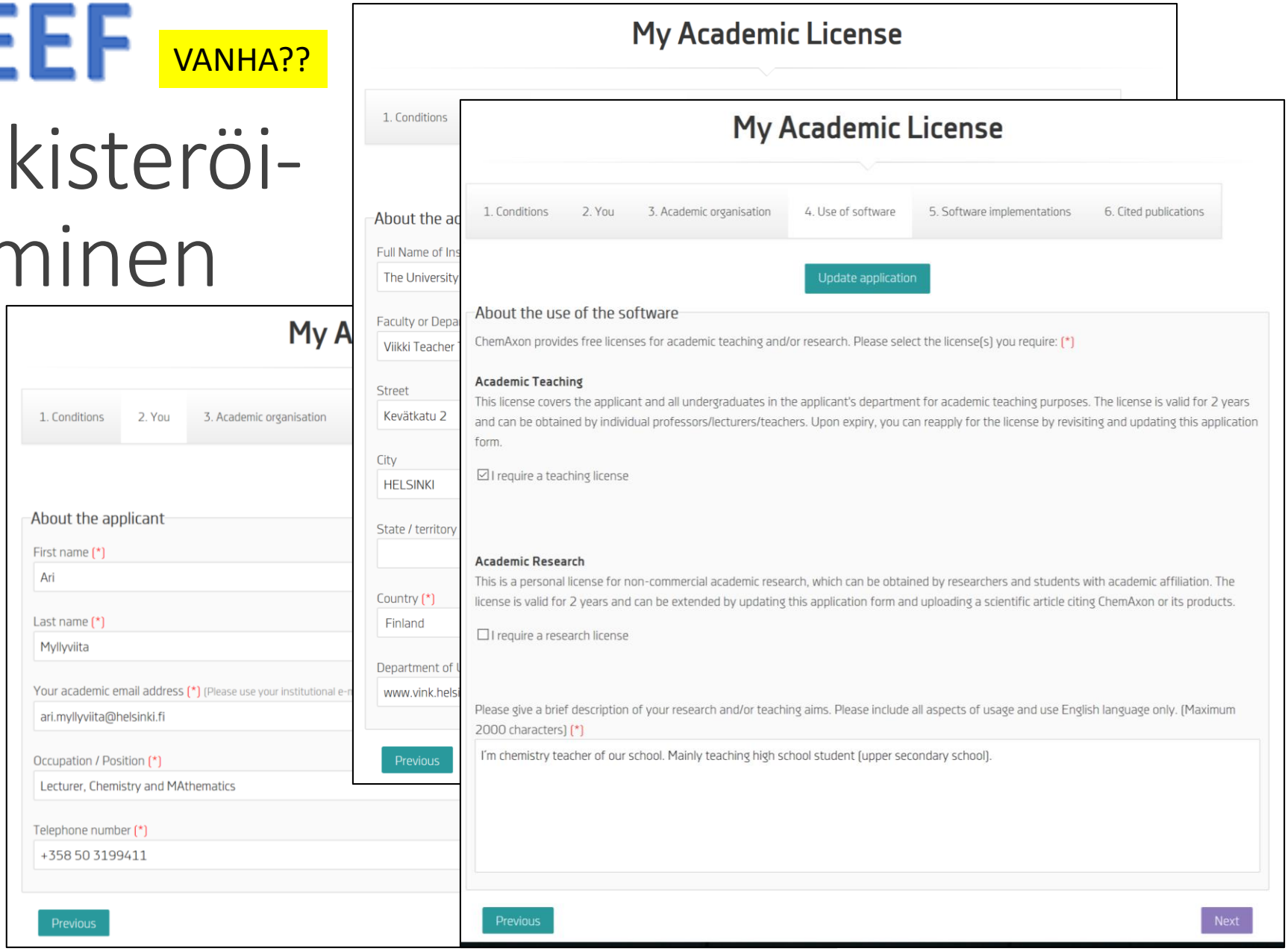
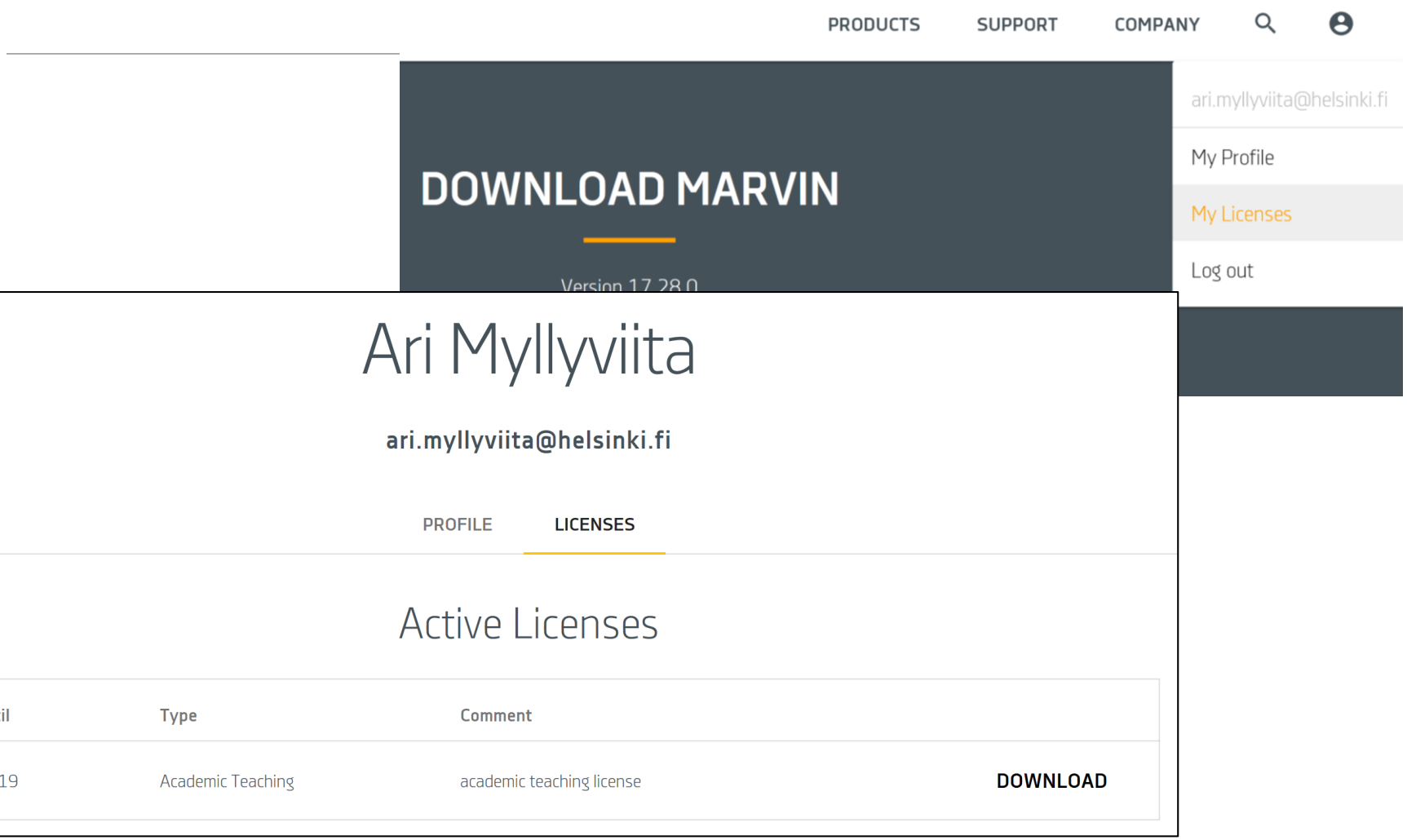
VANHA??

Rekisteröi-tyminen



Kirjautumisen jälkeen



Ari Myllyviita

ari.myllyviita@helsinki.fi

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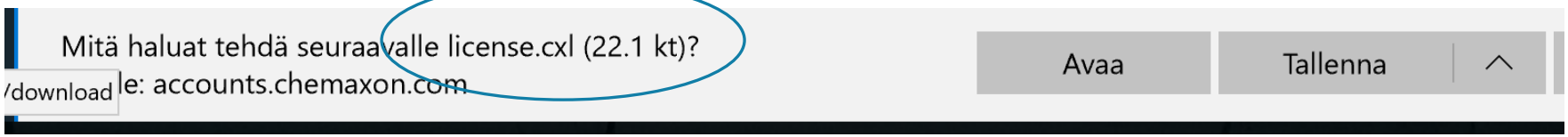
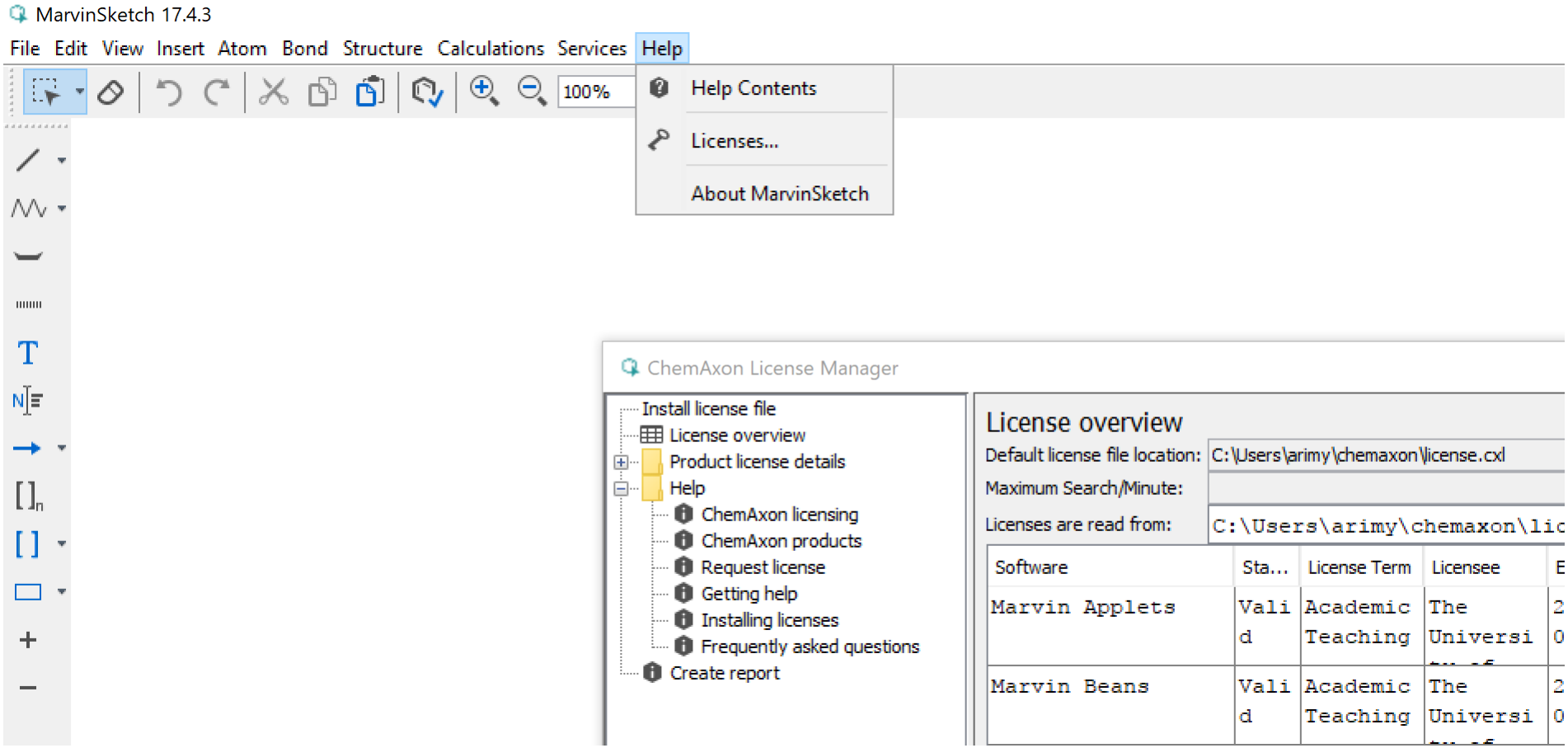
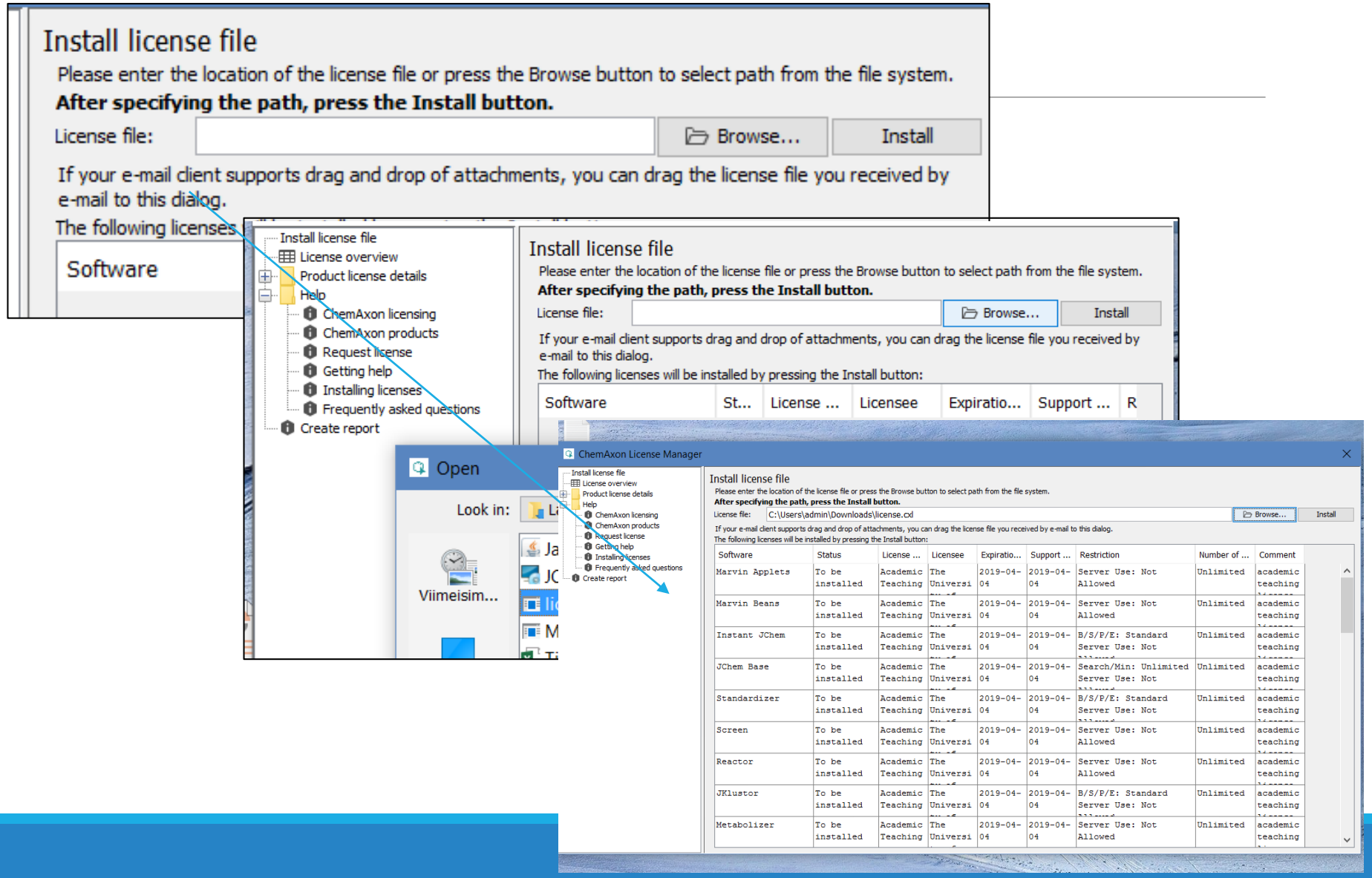


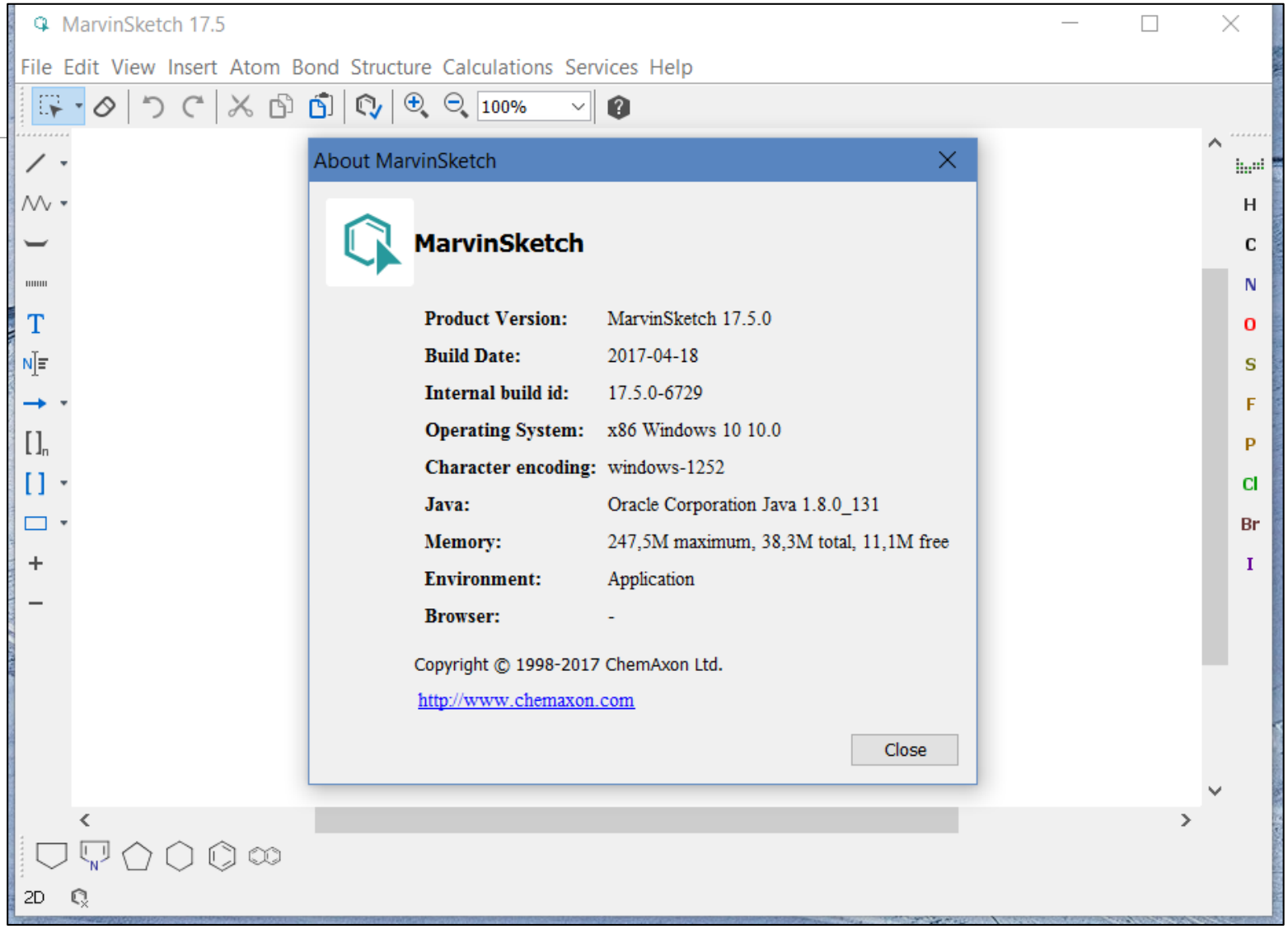
Lisenssin asentaminen



AEEF Lisenssin hyväksyminen (asentaminen)



Asennus valmis



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Ohjeet yms.

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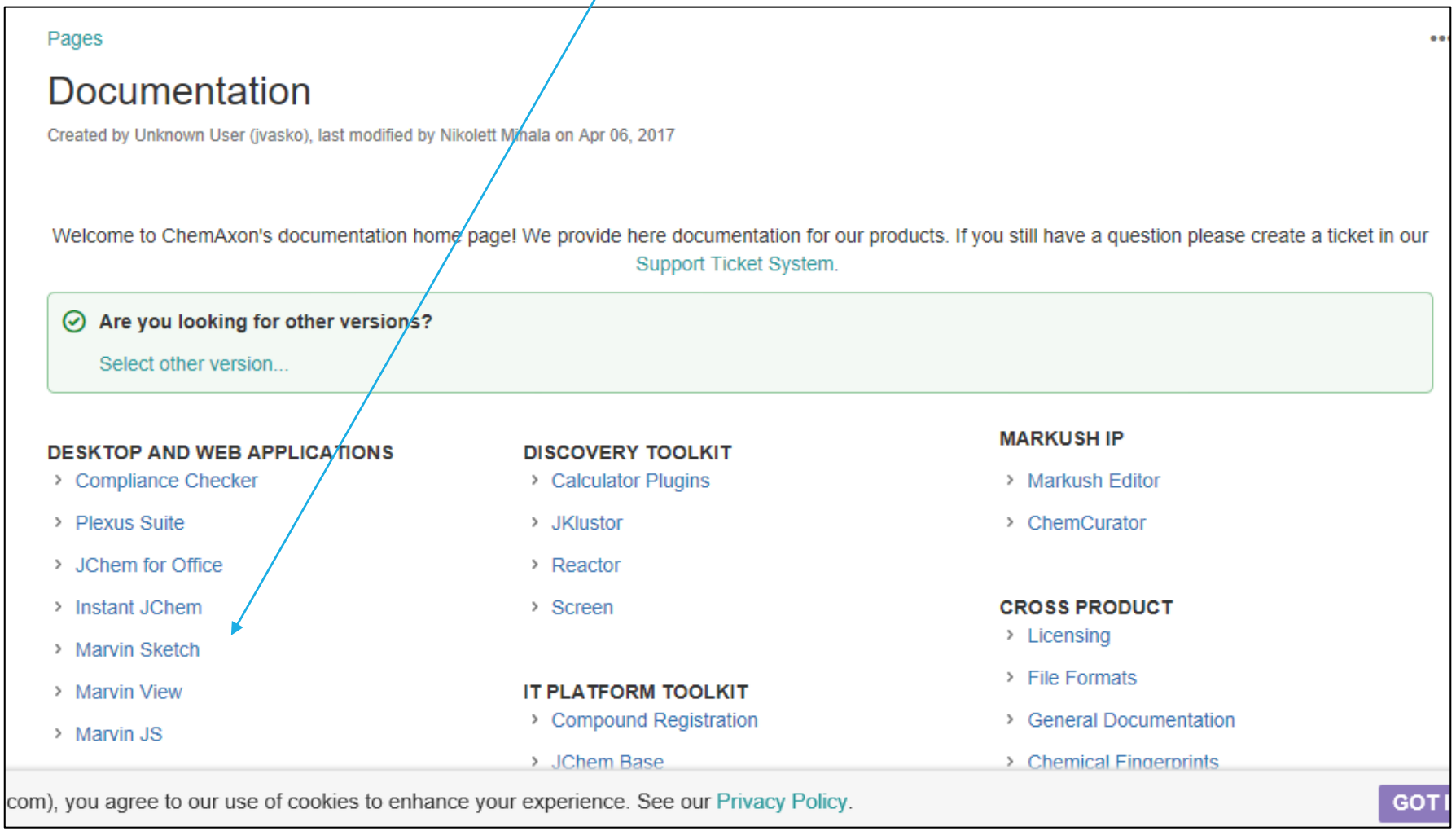
MarvinSketch –ohjeet 1



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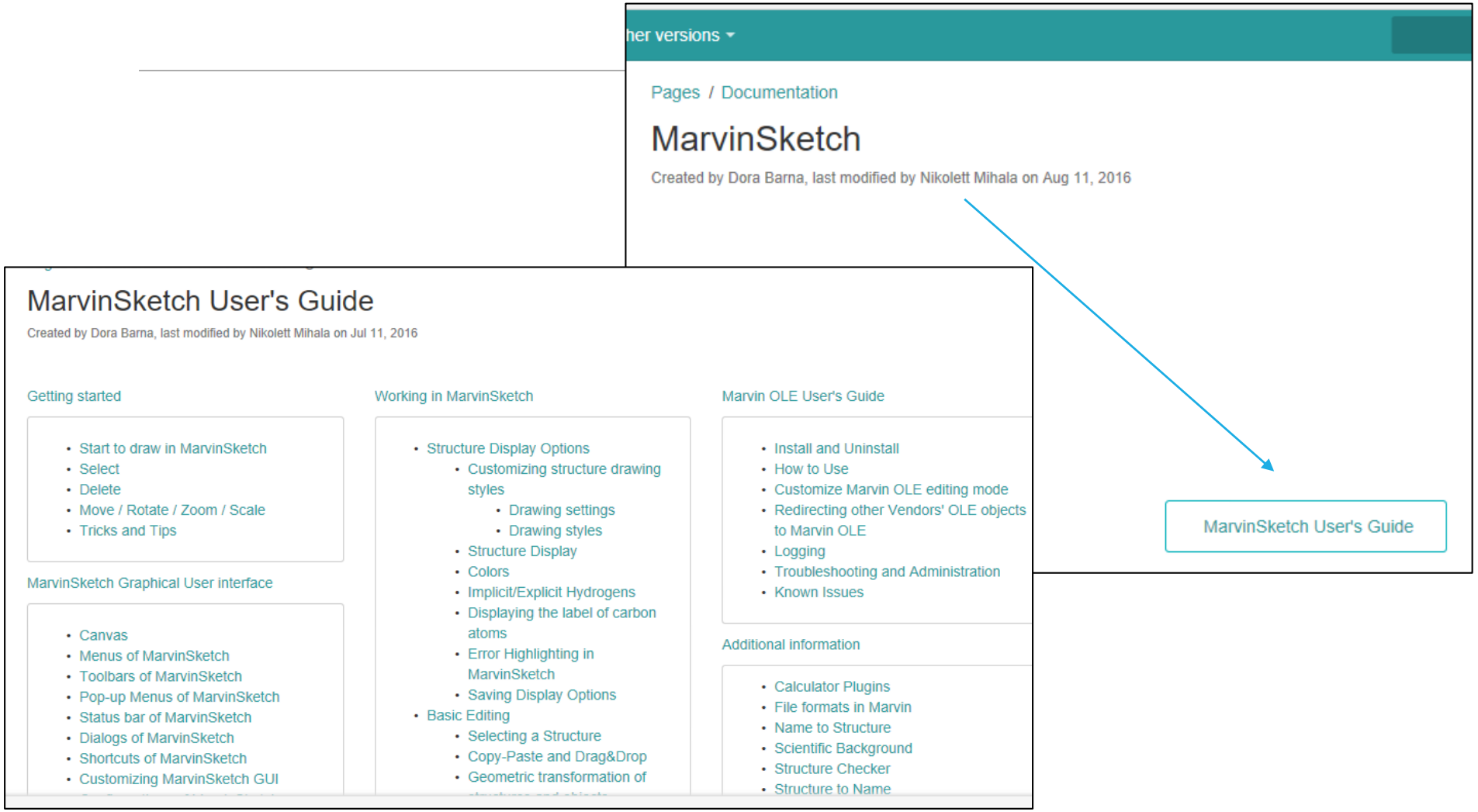
MarvinSketch –ohjeet 2



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MarvinSketch – ohjelman käyttö

ABITTI-TIKUSSA MARVINSKETCH 17.3.27

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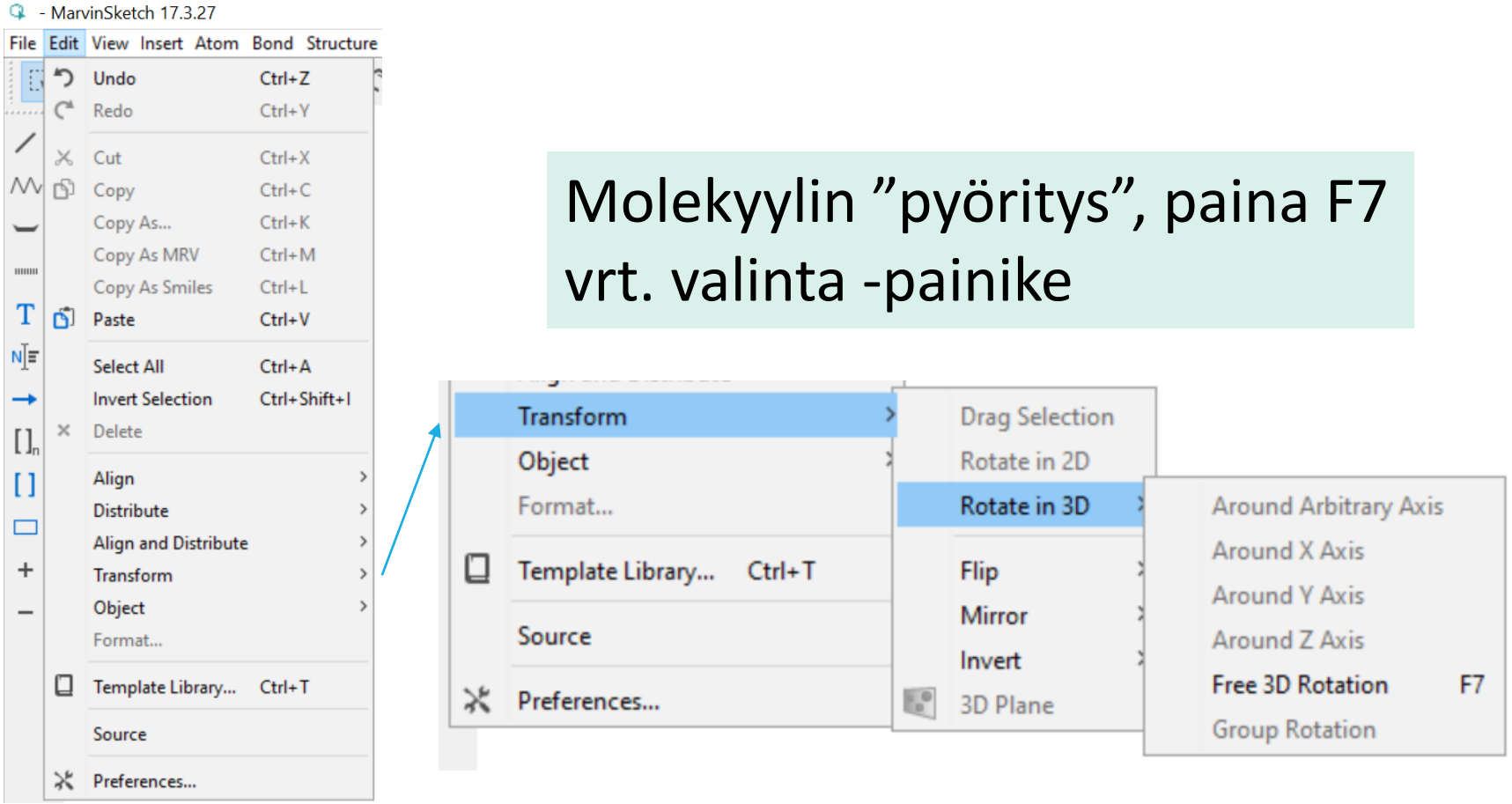
Mihin MarvinSketch ”taipuu”

- Molekyylien piirtäminen 2D – 3D
- Reaktioyhtälöiden kirjoittaminen (orgaaninen kemia)

Valikot - **Edit**



Molekyylin ”pyöritys”, paina F7 vrt. valinta -painike

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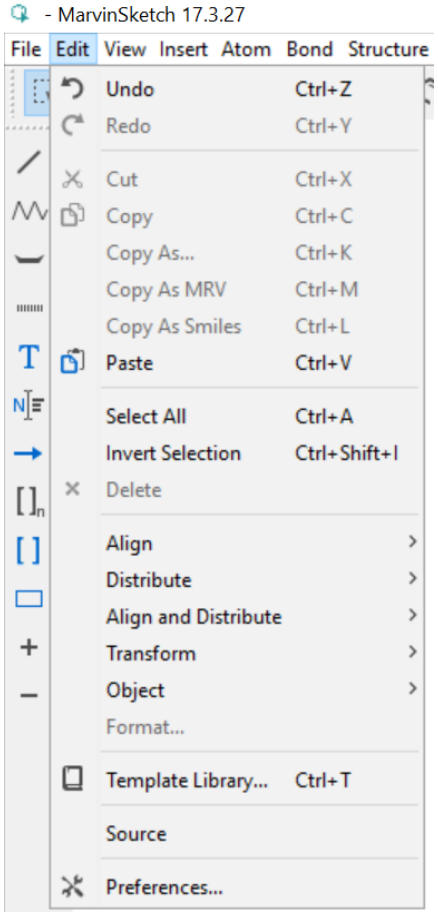
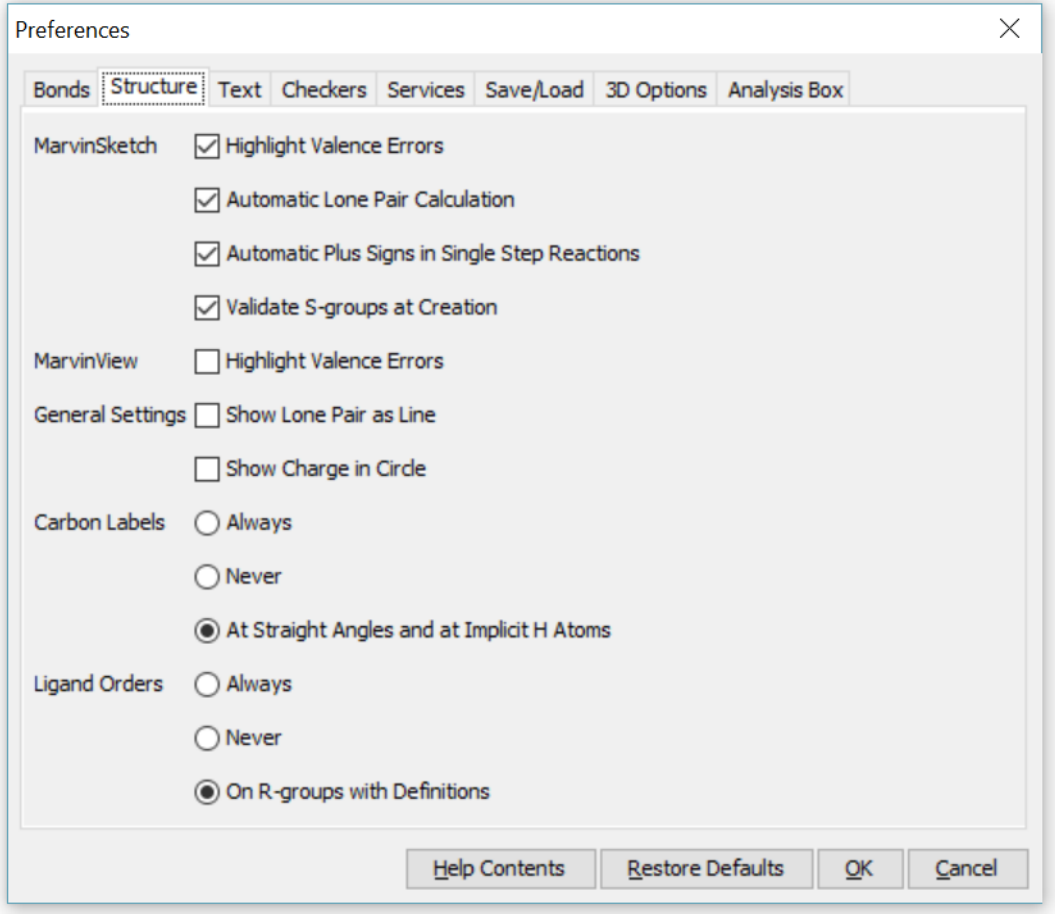
Valikot – Edit – **Preferences…**





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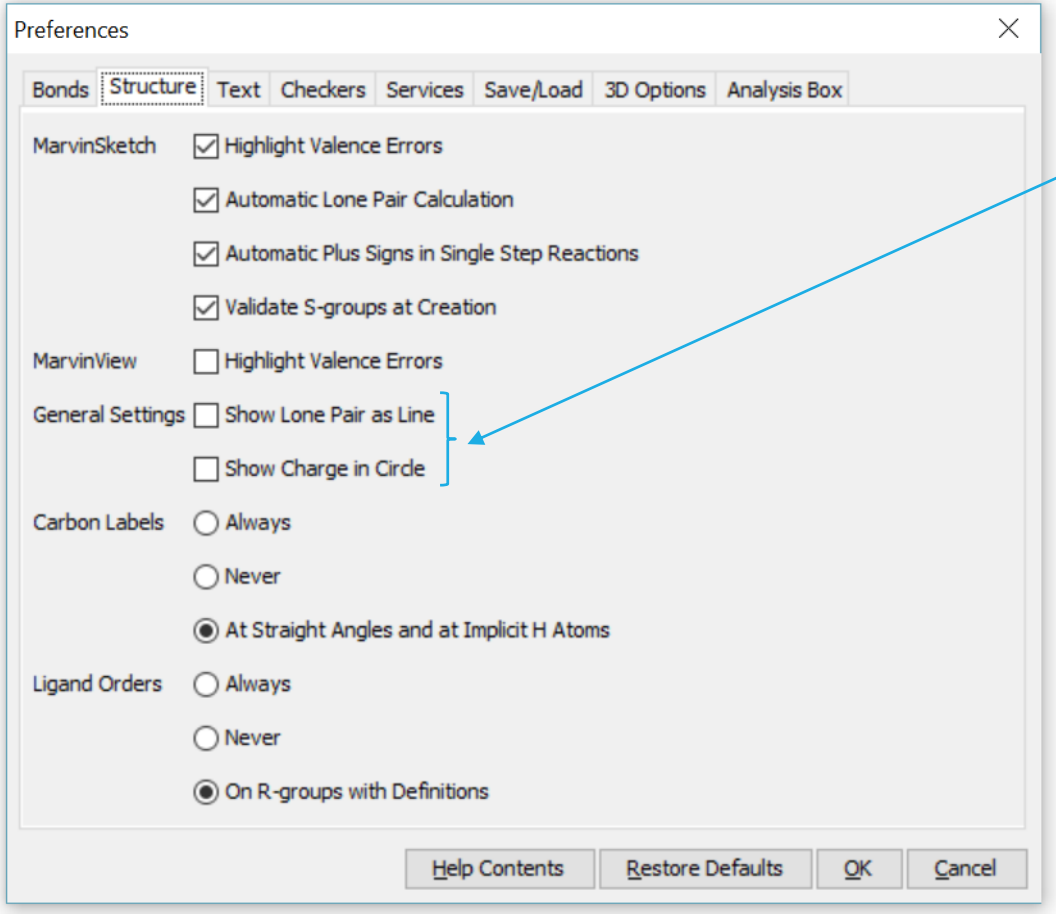
Vapaat elektroniparit näkyviin



EI TOIMI NORMIOHJELMALLA?

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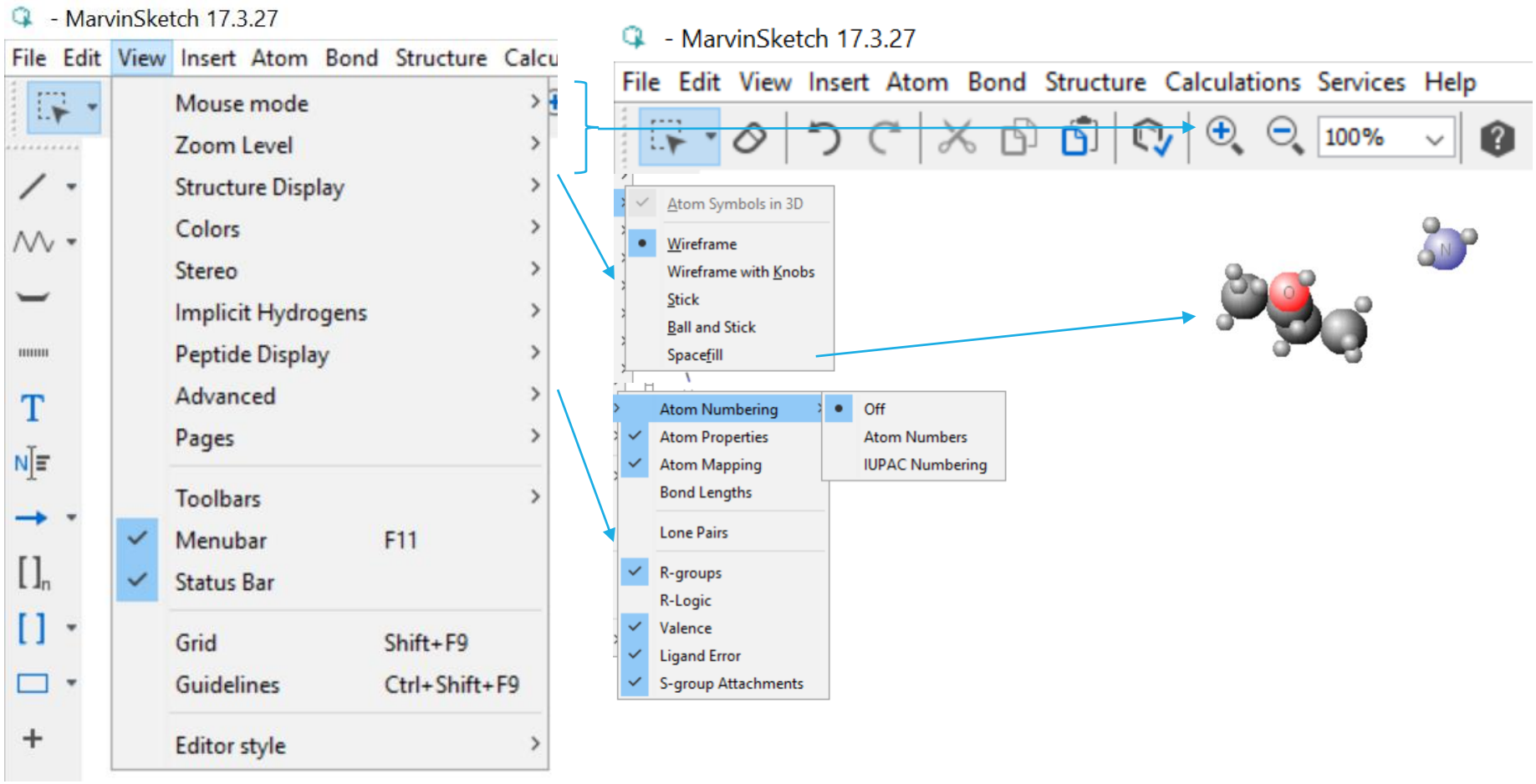
Valikot - **View**



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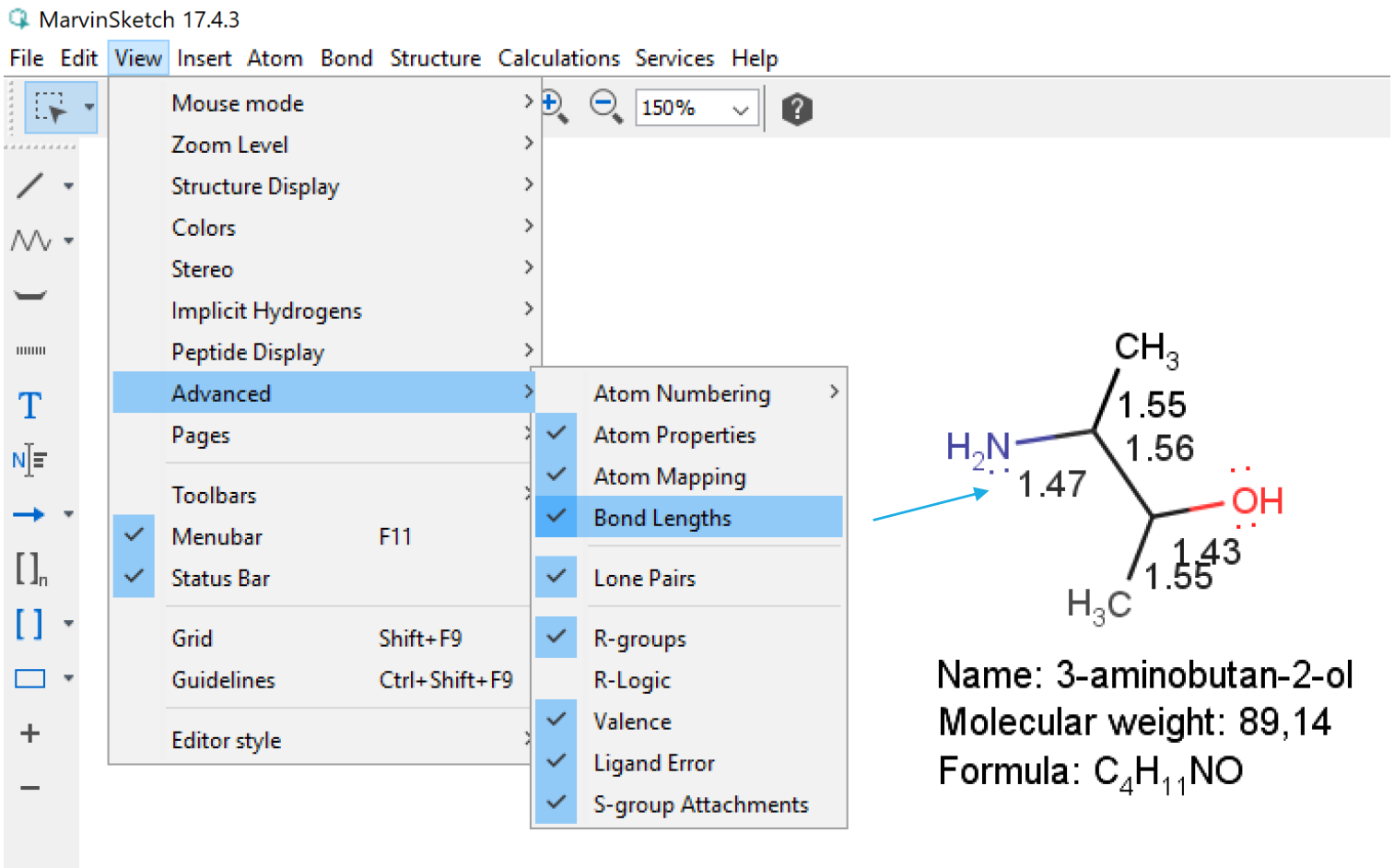
Valikot – **View** – Bond Length



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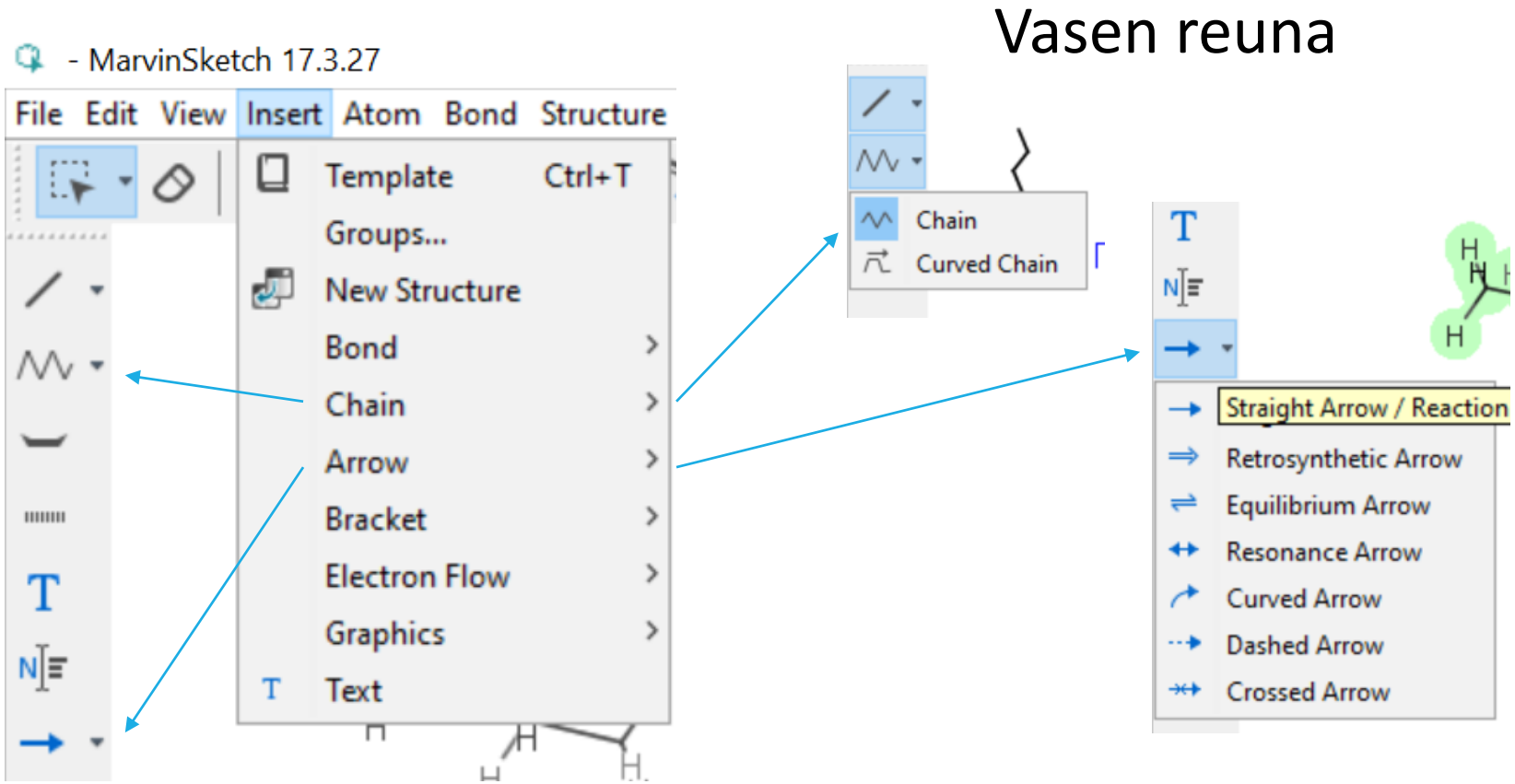
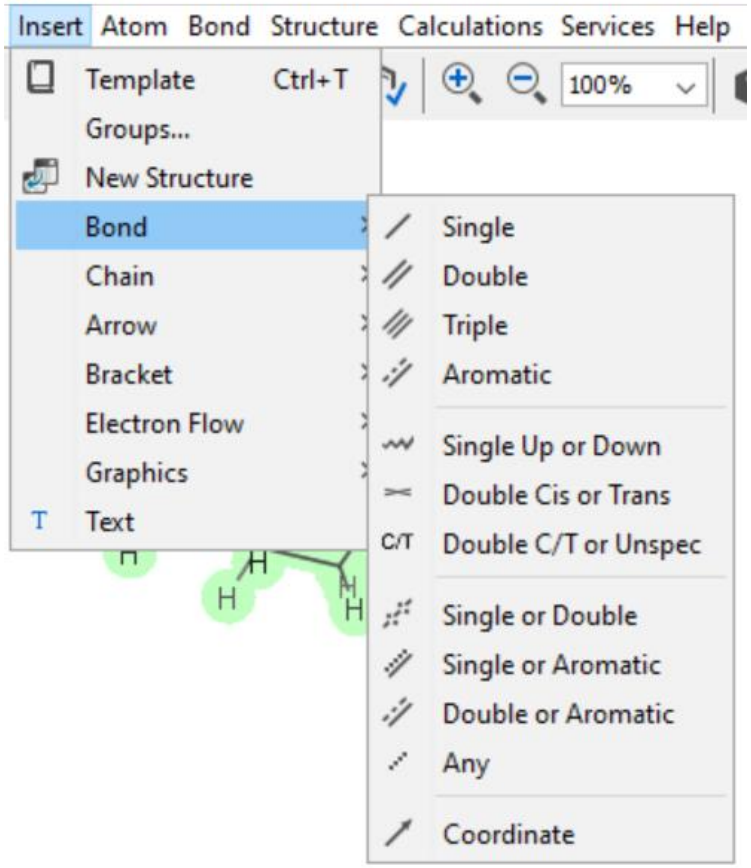
Valikot - **Insert**



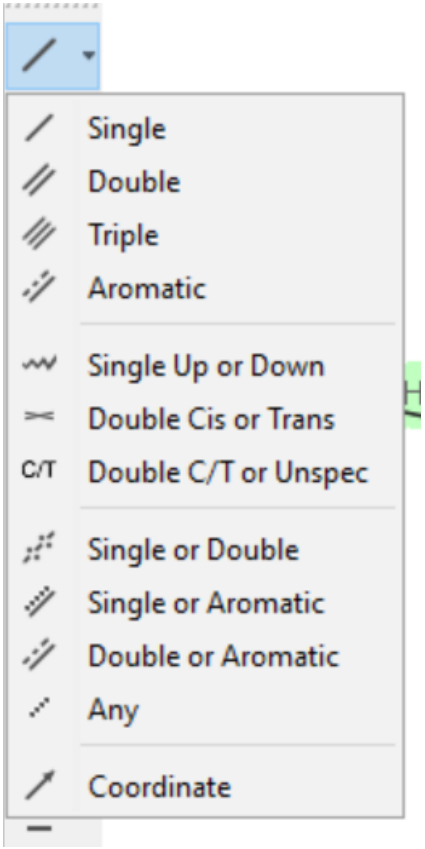
Vasen reuna

Bond - Pikavalikosta

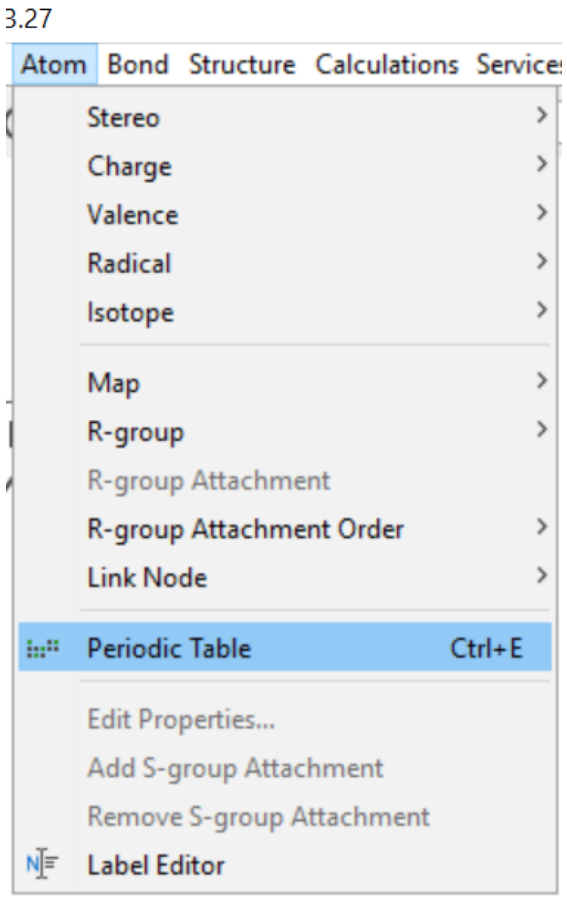
tch 17.3.27



Vasen reuna



Valikot - **Atom**



Oikea reuna

Valitse alkuaine

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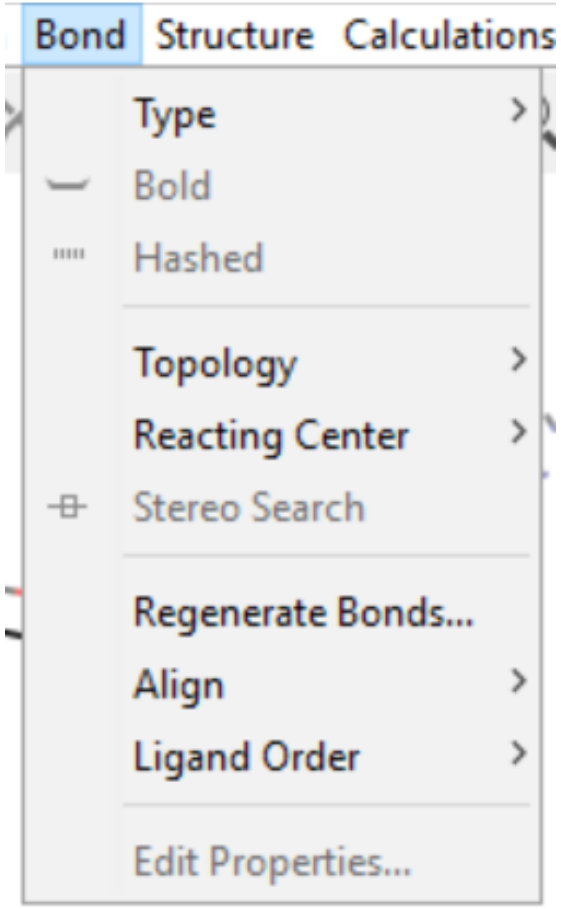
Valikot - **Bond**



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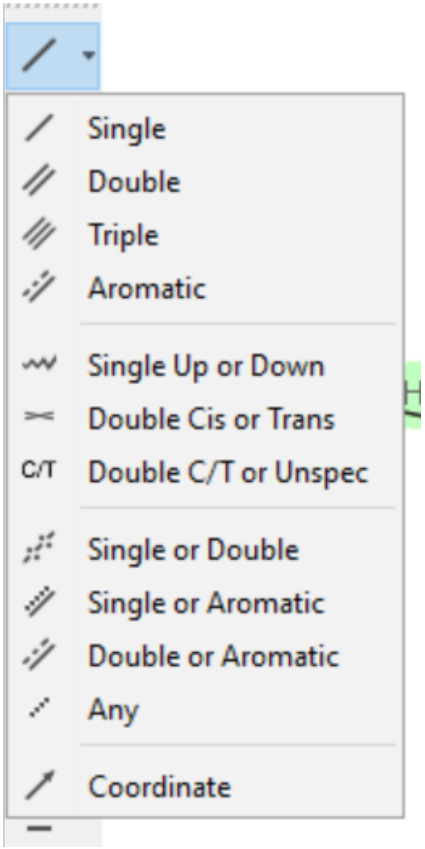

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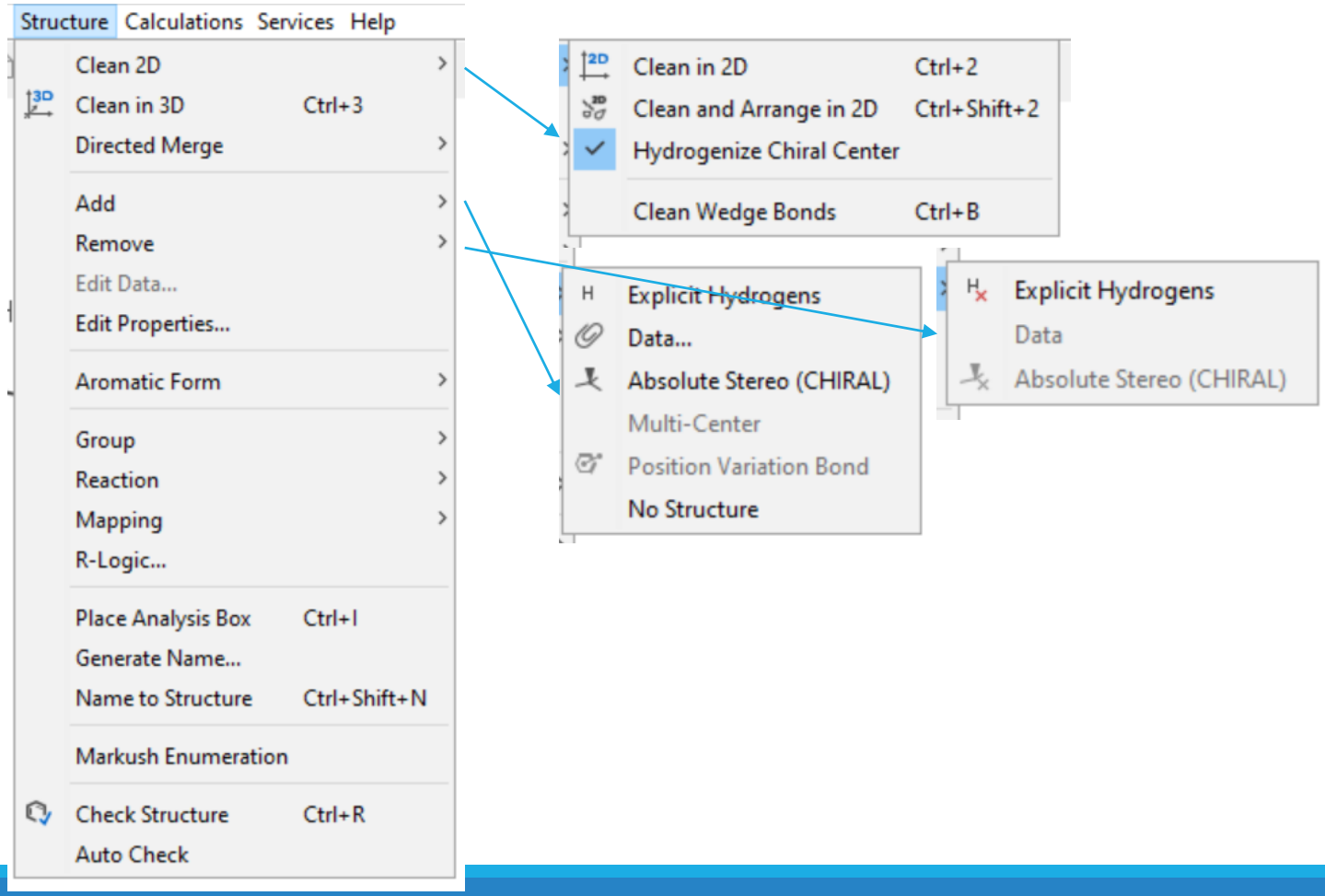
Valikot – **Structure**



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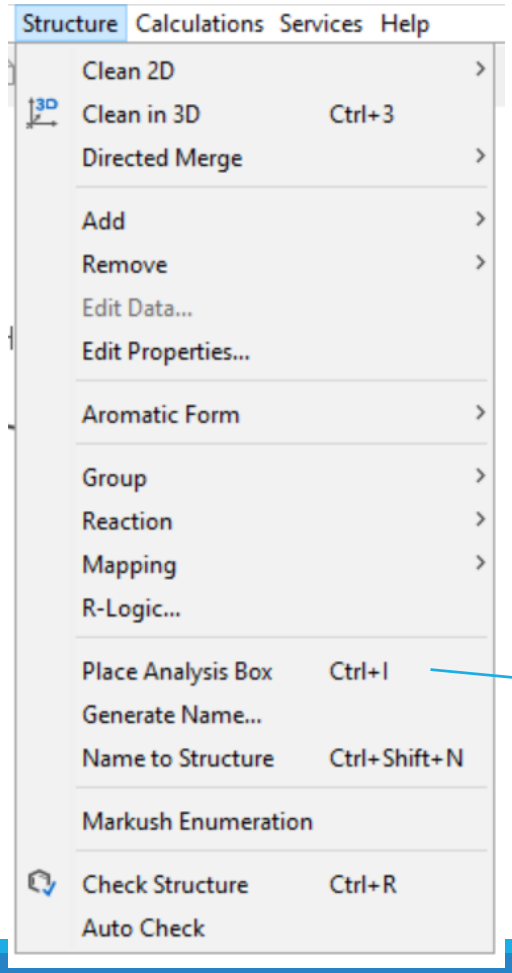
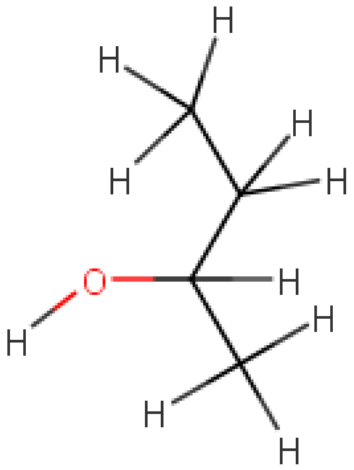
Valikot – **Structure**





Name: butan-2-ol
Molecular weight: 74,12
Formula: $C_4H_{10}O$

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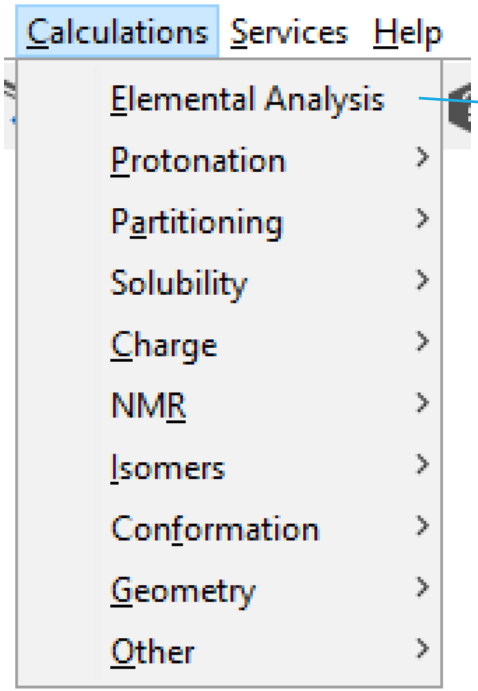
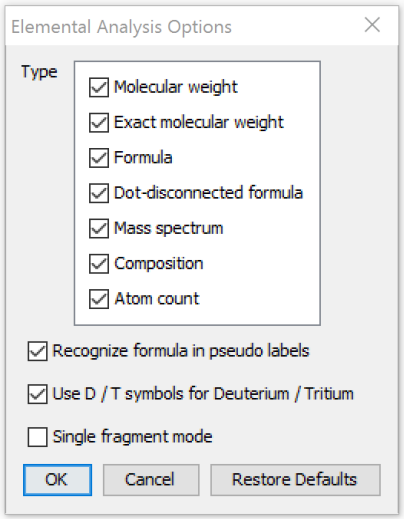
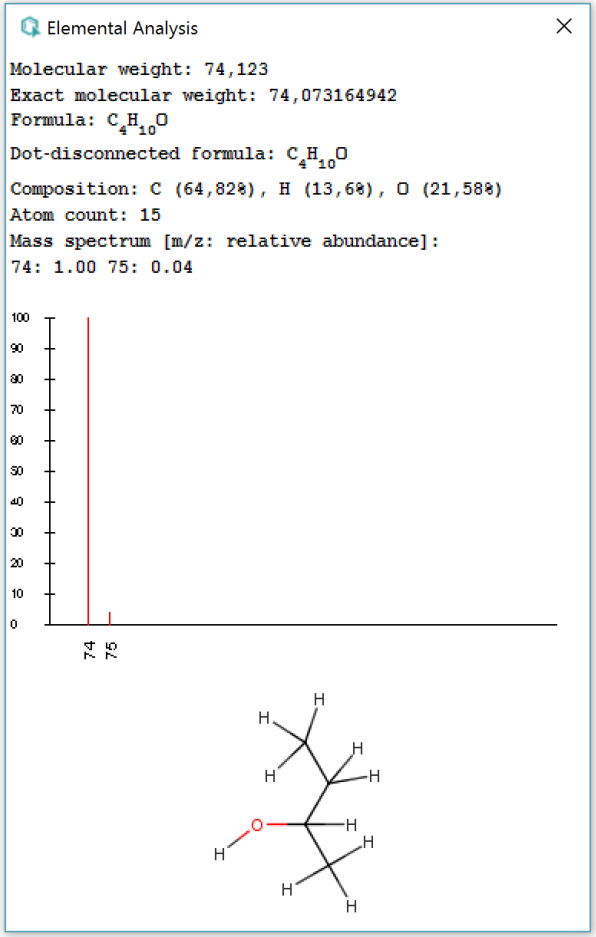
Valikot – Calculations







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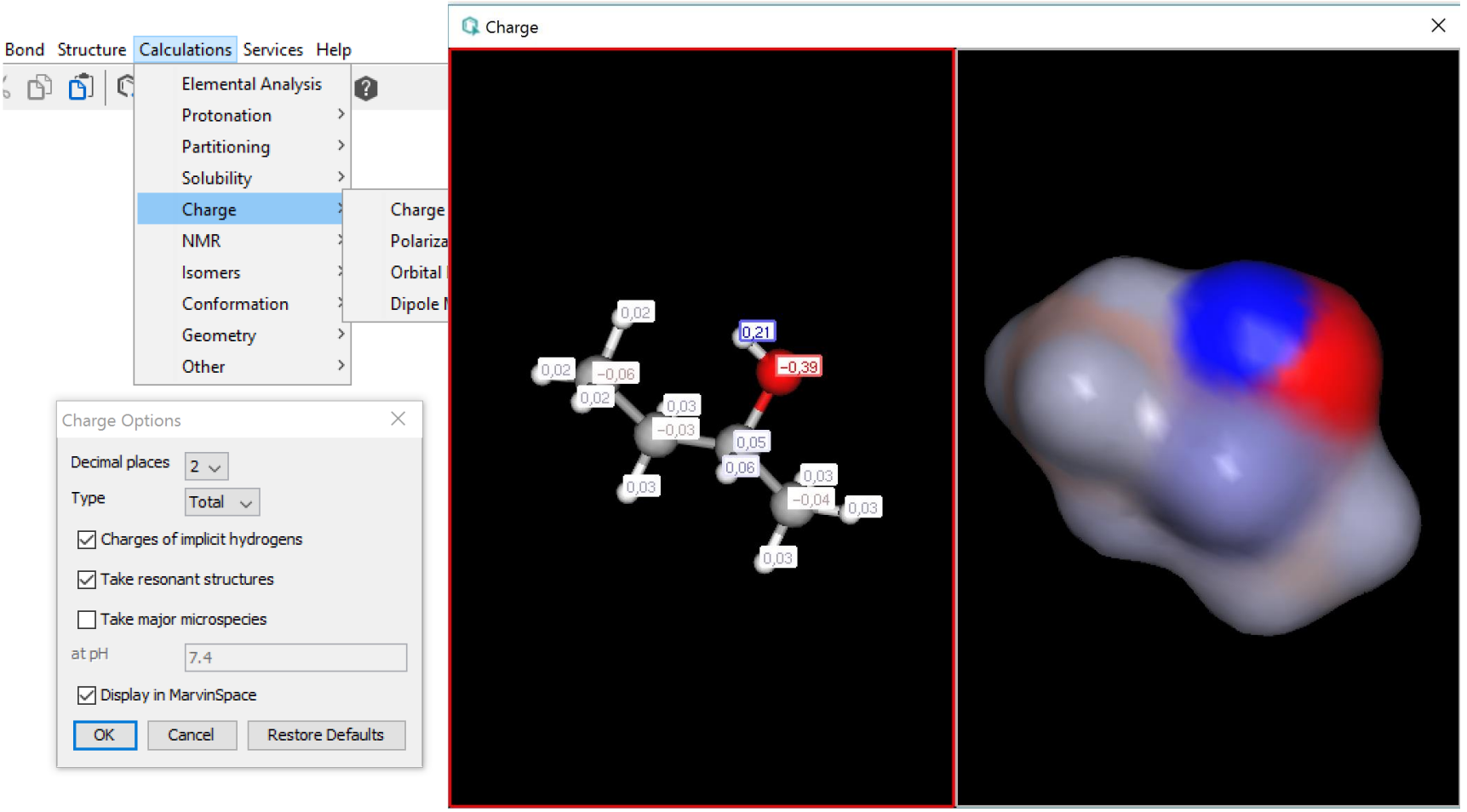
Valikot – Calculations - **Charge**



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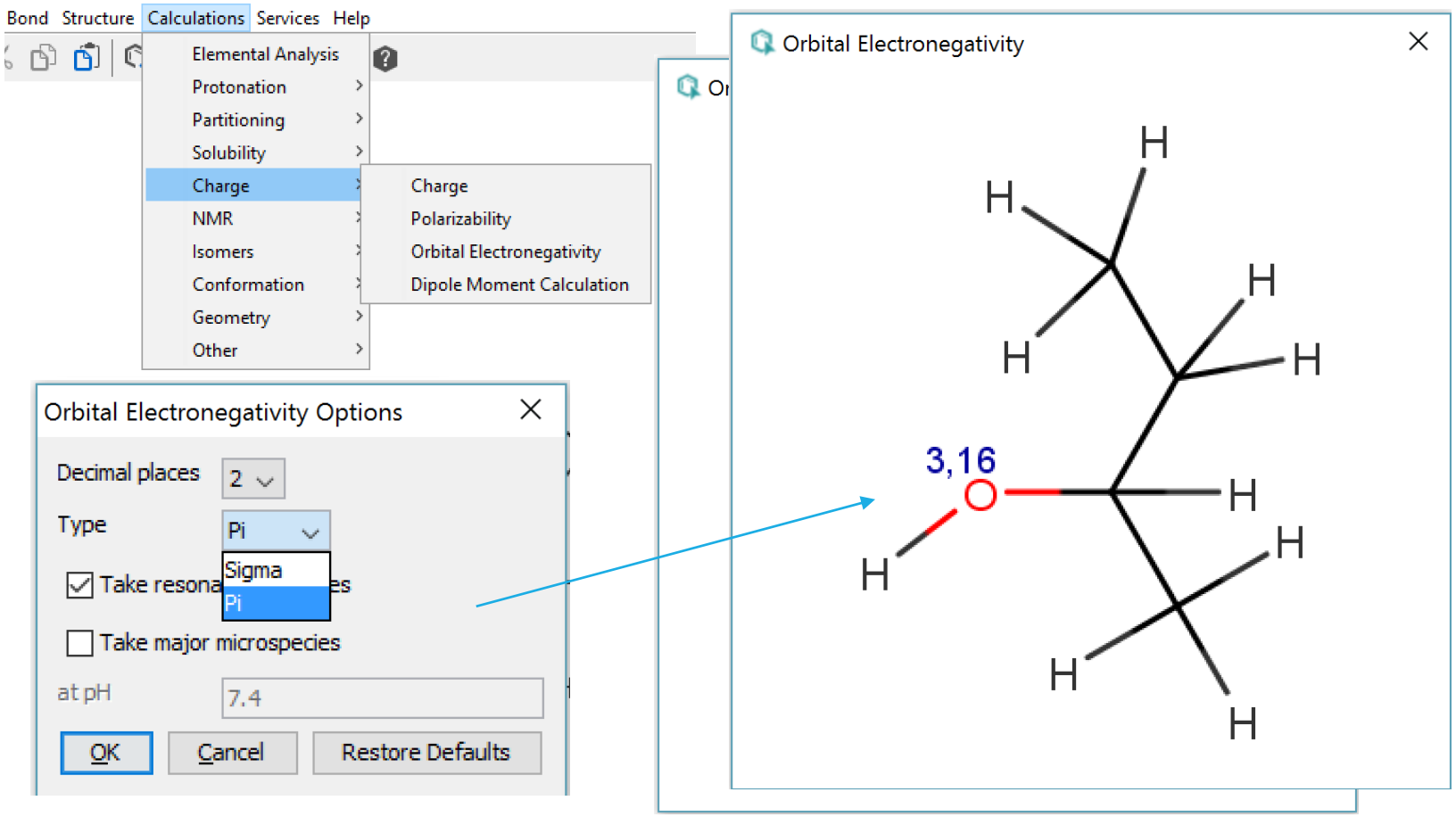
Valikot – Calculations - **Charge**



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Valikot – Calculations - **Charge**