CAEPLEX

Thermo-mechanical finite-elements fully integrated into **Onshape**
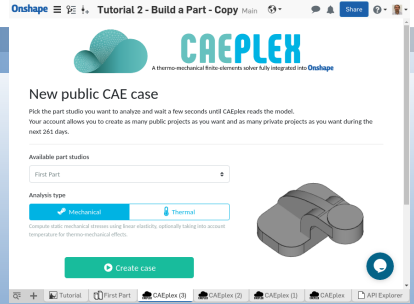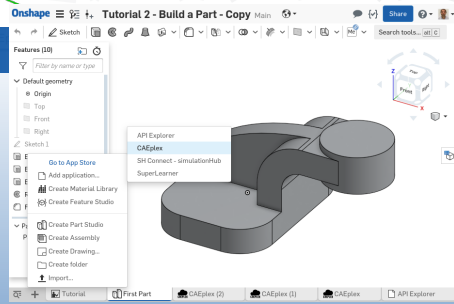
Step #1: Problem

Set the material properties and pick which faces have displacement conditions and which have loads. Optionally add a temperature field.

Step #2: Mesh

Choose mesh size and order. Select meshing algorithm. Add local refinements as needed. Optimize the grid (optional).

Step #3: Results

Lively warp the displacements to see how the part deforms under load. View Von Mises and principal stresses. Get a VTK file for further processing.
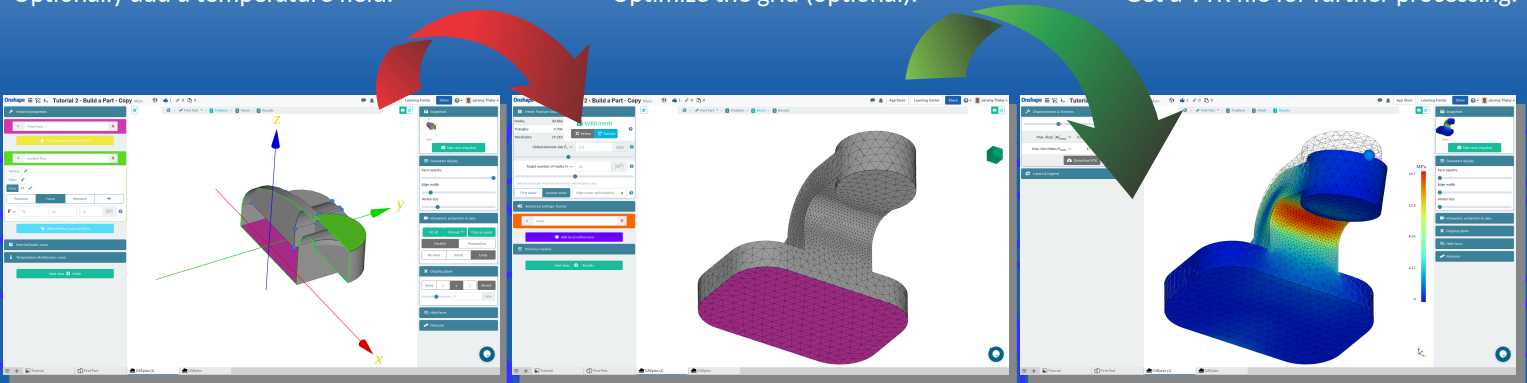
Web-based
Do not install software

Cloud-based
Do not buy hardware

Quick & easy
Get results in seconds

Mobile-friendly
Work from tablets & phones

Free for public projects
Private plans from $15/month

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CAEplex is an easy-yet-powerful paradigm-shifting platform for performing finite-element computations in the cloud directly from a web browser. It is developed by Seamplex, a startup that wants to shift engineering paradigms by delivering special IT-intensive projects for Industry 4.0. Onshape® is a registered trademark of Onshape Inc.

SEAMPLEX
Engineering made simple. But not simpler.