

Dlubal

WEBINAR

AI and Structural Analysis



**Dlubal CALC
presented by
Daniel Dlubal**



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www.dlubal.com

Today with



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Who this webinar is for

This webinar is for you if you



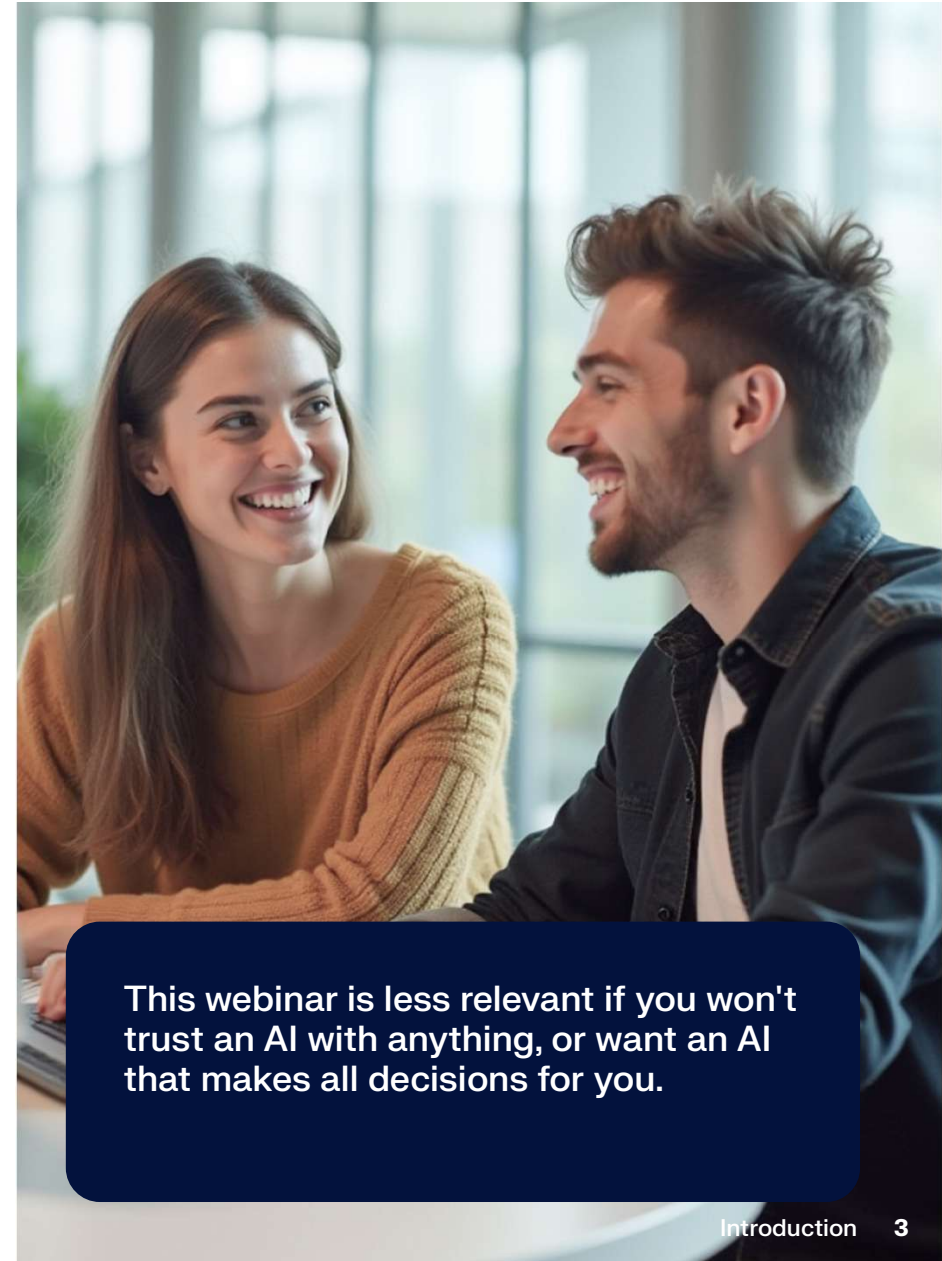
Switch back and forth between RFEM, Excel and code PDFs



Run component-based designs in a second program



Want to use AI without leaving the numbers to a language model



This webinar is less relevant if you won't trust an AI with anything, or want an AI that makes all decisions for you.

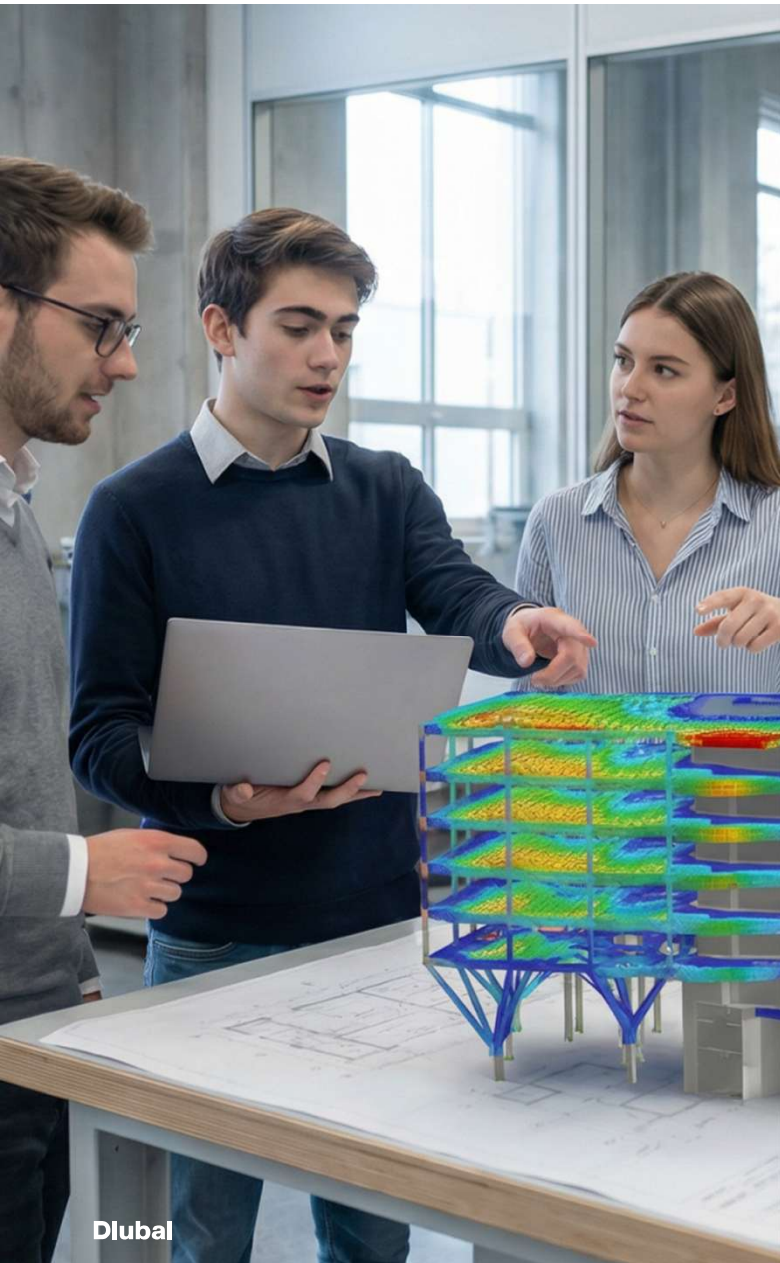
A question for you



Which of these situations did you face last week?

Write the numbers in the chat. Multiple answers are welcome.

- 1** Ran a design check in Excel because no add-on covered it
- 2** Prepared an architect's model for structural analysis
- 3** Looked up loads for a location
- 4** Ran a component-based design in a second program
- 5** Trained new colleagues in office standards
- 6** All of the above



Dlubal



Time is the most limited resource for every engineer!

The wish

More time for solving engineering problems.

Where structural engineers lose time

Rarely while calculating. Mostly before, after and in between.

Searching



Looking up codes

Code clause, National Annex, valid edition



Rare designs

Done too rarely to remember how it works



Finding the menu path

Especially after an update



Loads for specific location

Zone map, table, interpolation

Repeating



Rebuilding the model

Modeling the architect's geometry again



Carrying over changes

The same steps again with every model change



Transferring values

Internal forces by hand between programs



Compiling the report

Collecting, formatting and updating results

Working around



Missing function

There is none for exactly this one command



Missing tool

The program doesn't provide the special design check



Multiple programs

For a single structural analysis



Maintaining Excel tools

Often only one colleague really understands them

The expectation is simple

- ✓ Describe the task in words instead of searching for menu paths
- ✓ Numbers from the calculation program, not from the language model
- ✓ Access simple design checks
- ✓ Store your own knowledge once and reuse it again and again
- ✓ Create reports quickly and easily



The solution: Dlubal CALC

The AI workspace for structural engineers.



You describe the task.

In your own words.



RFEM executes what you describe.

Modify the model, calculate, read out results.



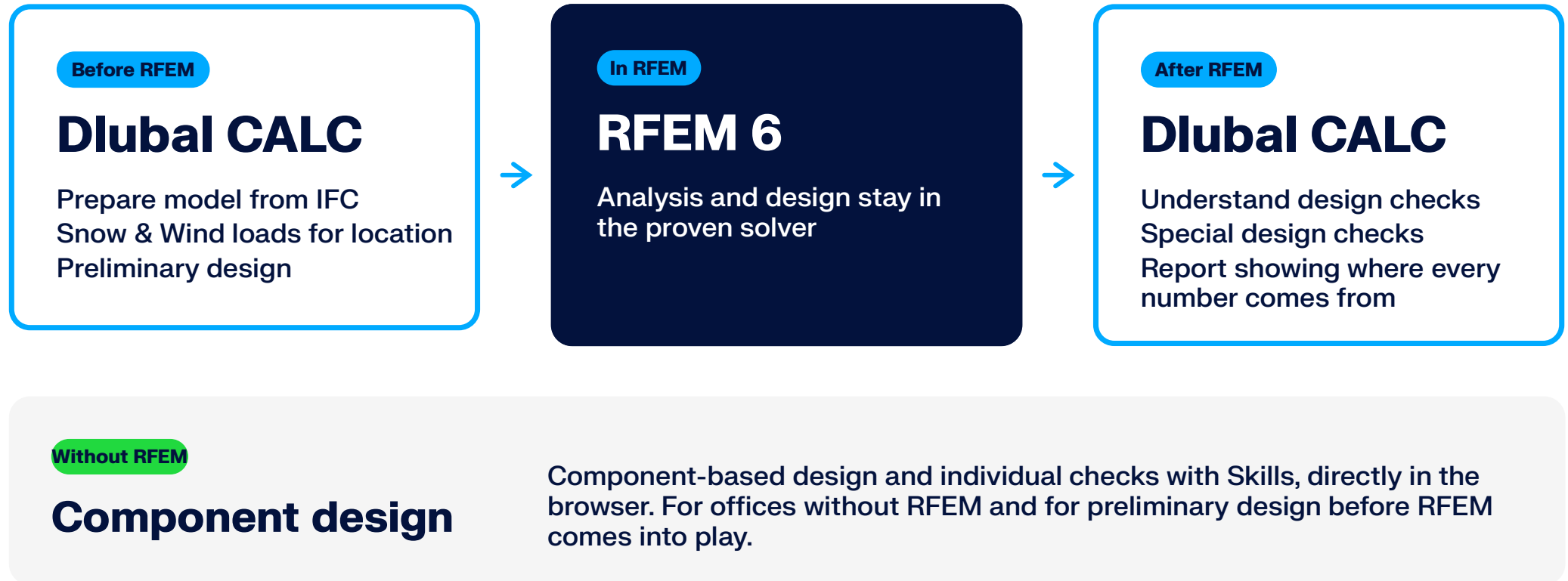
And what RFEM doesn't cover?

Component-based design & special design checks using Skills and the language model.



Mia is the voice of Dlubal CALC: She understands your task, asks when something is missing, and explains the results.

How to use Dlubal CALC



Where does the number come from?

Every number in Dlubal CALC shows its source. Three sources, three colors.

Solver

Values from analysis and design in RFEM

Building block

RFEM 6

Example

Internal forces, utilization, deformations

Calculation Skill

Fixed calculation method with code clause and version

Building block

Dlubal Skills and your own Skills

Example

Component-based design, load assumptions, special design checks

Language model

Explanations and code questions with sources.

Building block

Dlubal knowledge base, optional web search

Example

What does this design check mean? Why do I get this value?

Zone values for snow, wind and earthquake come deterministically from the Geo-Zone Tool.

How it differs from general AI chats



General AI chat

- Only knows what is public
- Knows what is on the internet
- Works with RFEM only via self-written scripts



Dlubal CALC

- ✓ Also knows what Dlubal never published and only used internally
- ✓ Knows what Dlubal has learned in almost 40 years
- ✓ Connected directly to RFEM 6, by the developer itself

Two ways to work

1



In the browser, no installation

For

Offices without RFEM and anyone getting started

What

Component design, site loads, special design checks

Requirement

None

2



With your RFEM 6

For

RFEM users

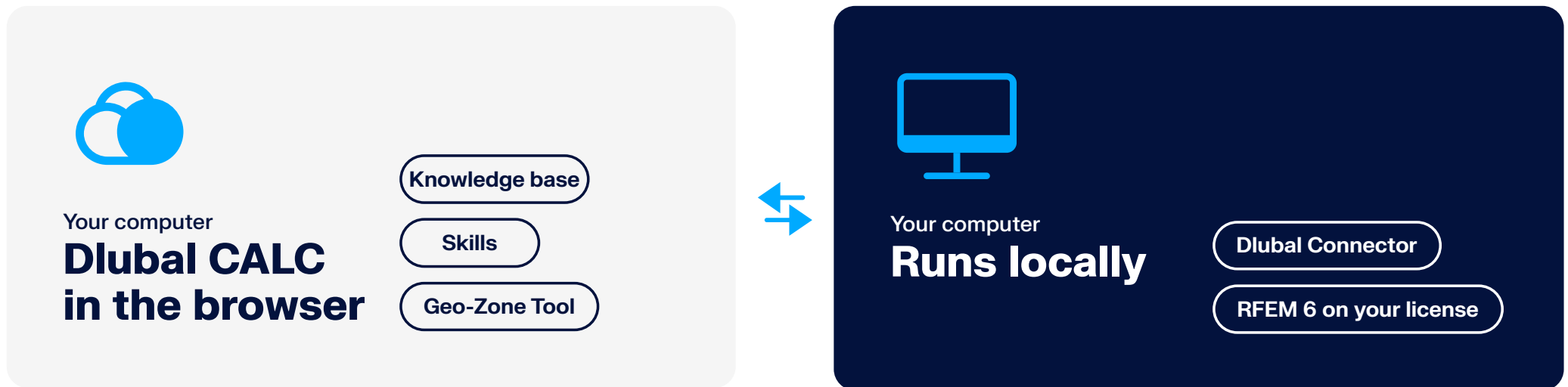
What

Prepare, check, modify and evaluate models

Requirement

Current RFEM 6 with Dlubal Connector

The Dlubal Connector: the bridge to RFEM



Which way suits you?

Please write the number in the chat.

1

Browser

without RFEM, for example
for component design

2

With RFEM 6

via the Dlubal Connector

3

Both

depending on the project

Your answer helps us better understand how Dlubal CALC is used.

What we're often asked

Is there a free trial?



Not as such. However, there is a freemium version that gives you 30 credits every month.

Do unused credits carry over to the next month?



No. Monthly plan credits reset at the end of each billing period. Purchased credit packs, however, never expire and stay on your account.

Which Large Language Models are used (LLM)?



Not a single standard model. Dlubal CALC uses a modular multi-model architecture built for structural calculations, where out-of-the-box LLMs fall short.

Where is my uploaded data processed?



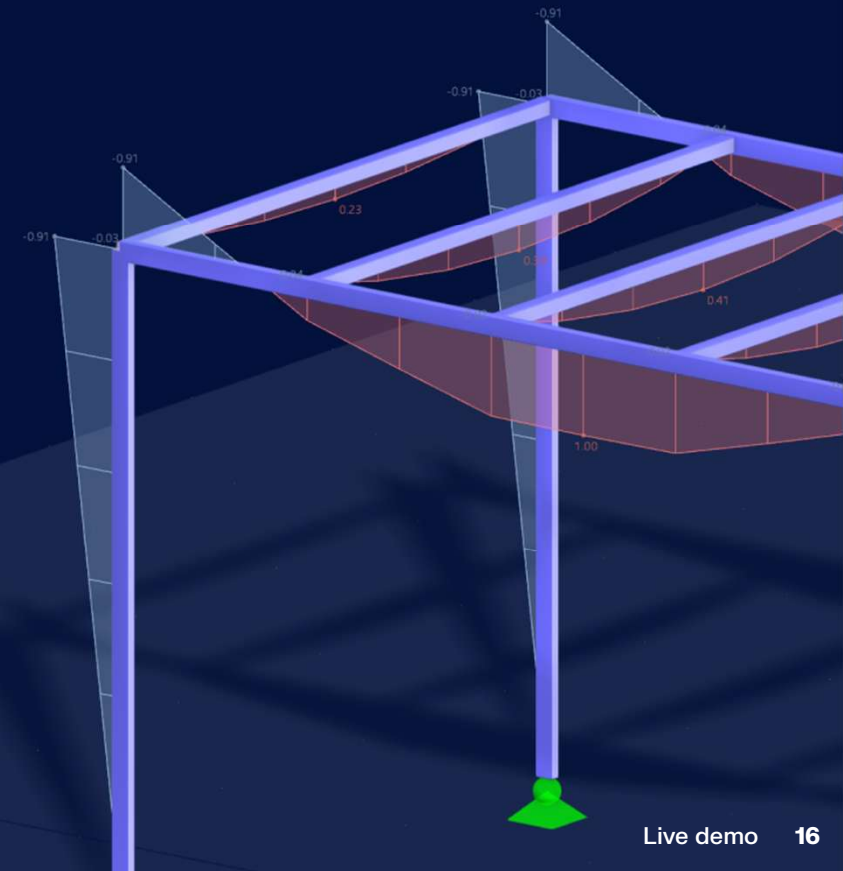
It is processed and stored on secure servers in the European Economic Area (EU/EEA) in compliance with the GDPR. Your data is not used for training AI models.

Structural analysis of a carport

Live demo

You'll see the workflow step by step:

- 1 Convert an IFC model into a structural model in RFEM**
- 2 Determine snow and wind loads for a location**
- 3 Analysis & design with a follow-up question**
- 4 Optimization with a quick design check**
- 5 Special design check: column base design with Excel**
- 6 Changing the geometry of the structure**
- 7 PDF documentation**



Where we're headed

Today

Steel

Timber

Concrete

BIM



Goal

over 1,000

Skills for almost every component design in everyday office work

Timber connections

Glulam beams

Steel connections

Masonry

Existing structures

Your office standards



CALC

Starter credits by 10/30/2026

One-time extra credits, not a discount.

A standard request costs 1 credit, an in-depth request 2 credits.

Multiple seats in your office? Enterprise on request.

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+100

Free Credits

Starter package

One-time credits
when booking the
Starter package

+500

Free Credits

Professional package

One-time credits when
booking the Professional
package



Dlubal CALC changes how you work with RFEM, not how you work in it.

Get even more out of your RFEM!



More speed

Routine changes and queries in one sentence.



More possibilities

Whatever RFEM has no command for, you simply describe.



More design checks

Whatever no add-on covers becomes a Skill.

What about Mia?

Mia has moved and become much more capable.

Before

Mia in RFEM

- Support chat in the program
- Answers from the website search
- Still available in older program versions

Free up to the freemium budget of 30 credits.

Now

Mia in Dlubal CALC

- ✓ Answers from the Dlubal knowledge base, with sources
- ✓ Access to Calculation Skills and your RFEM model
- ✓ From the RFEM version of 08/17/2026

Your personal support remains unchanged.

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Get started in two minutes 20





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Starter package

One-time credits
when booking the
Starter package

+500

Free Credits

Professional package

One-time credits when
booking the Professional
package



Key takeaways

- 1 Dlubal CALC is the AI workspace for structural engineers.
- 2 You describe in your own words what you need for your structural analysis.
- 3 Communicate directly with RFEM and use Dlubal CALC for component-based design.
- 4 Dlubal CALC builds on almost 40 years of structural engineering know-how.
- 5 Start for free. Starter credits when you book by 10/30/2026.

Your questions, our answers.

Ask your questions in the chat.



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