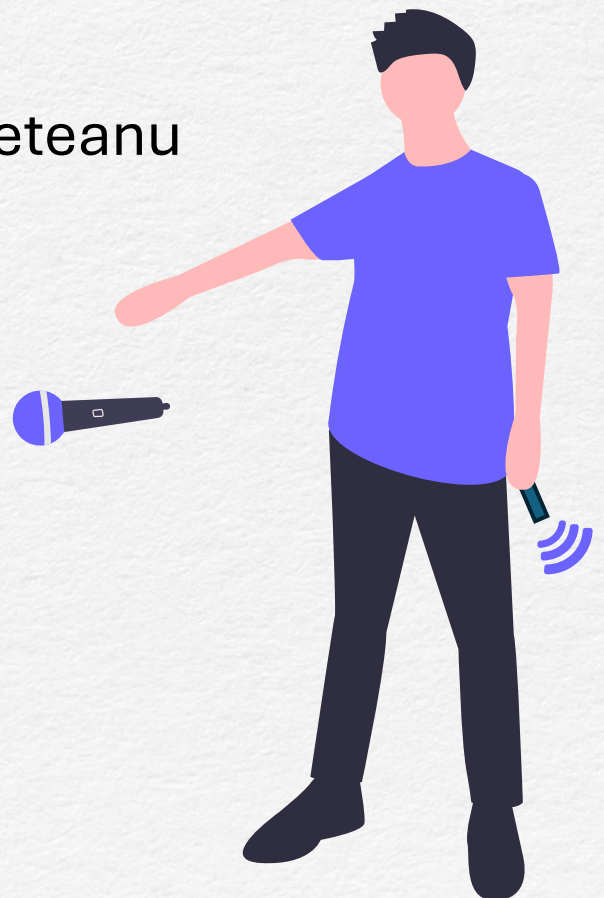


Physical Product Design:

A Unified Clicker for Stand-Up Webinars

original design by Marian Veteanu



The “Power Presenter”

an original design by Marian Veteanu



This presentation is about designing an innovative wireless clicker named “Power Presenter” to help professionals deliver stand-up webinars effectively.

About Stand-Up Webinars

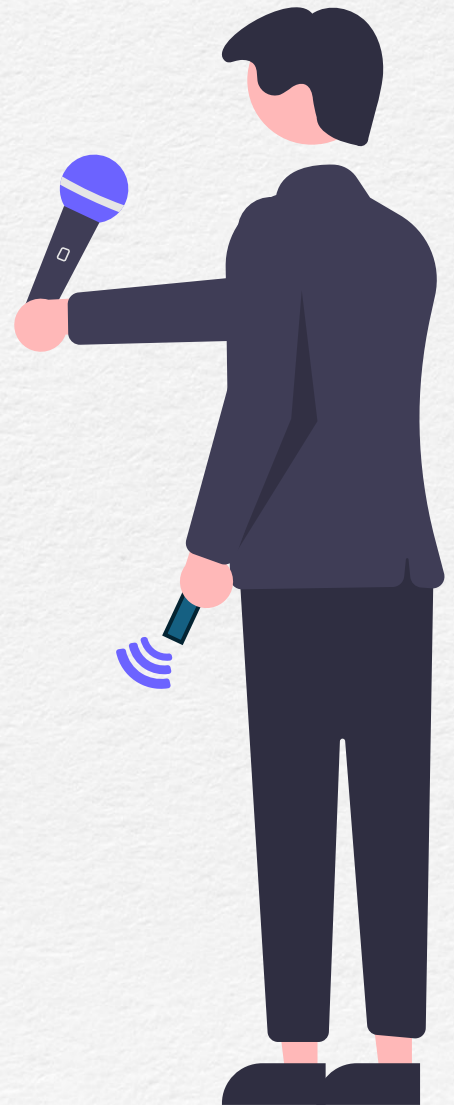
Stand-up webinars are an engaging form of online presentations where the speaker remains standing, similar to traditional in-person lectures or workshops.

This approach helps replicate the energy and body language of physical presentations, making the session feel more dynamic and professional.

Typically, the presenter uses a **PowerPoint slide deck** along with a **clicker** to advance slides, which adds to the natural flow of the presentation.

Standing while presenting can lead to better voice projection, more natural gestures, and improved presence, all of which contribute to keeping the audience attentive and involved.

Stand-up webinars are especially useful for educators, trainers, and content creators who want to convey authority, enthusiasm, and a deeper connection with their viewers.



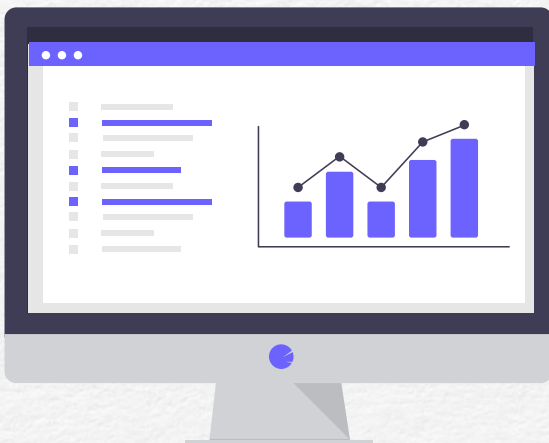
Challenge

As opposed to in-person presentations, webinars are delivered over the internet as a live video stream using platforms such as YouTube, Microsoft Teams, or Zoom.

The presenter, usually an individual, is responsible for:

- Delivering the speech
- Advancing the slides
- Switching the stream camera between the webcam and PowerPoint slides (or other scenes)

All of this must be done while standing and expressing themselves freely with hand gestures!



PowerPoint slides on
local computer



Webcam view of the
presenter

Solutions

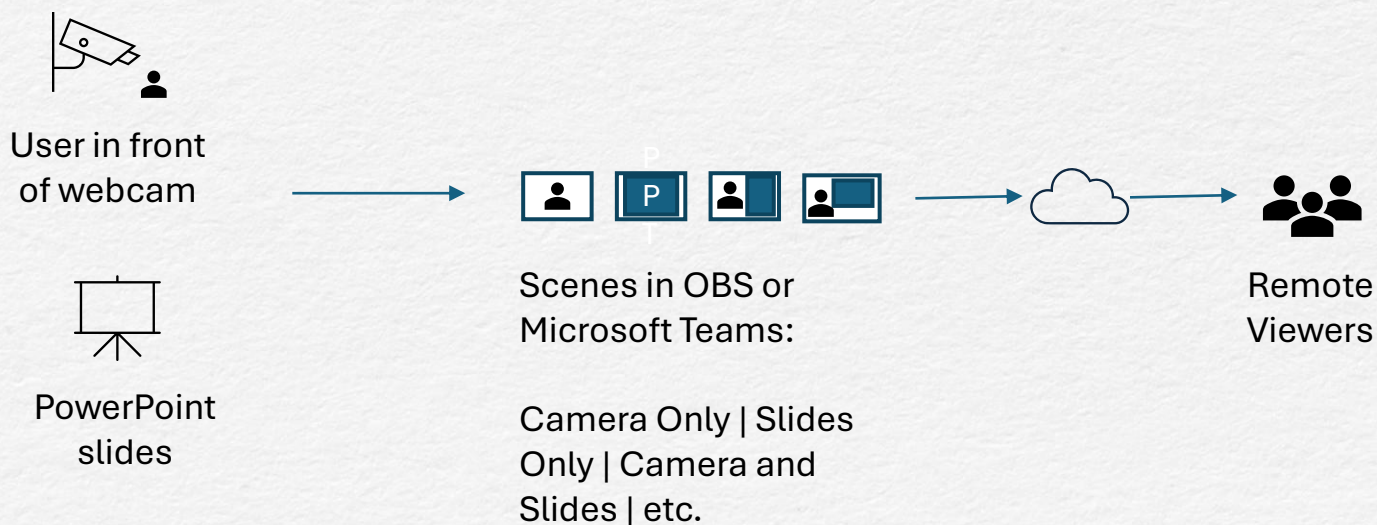
There are two main software solutions that will be discussed in this presentation, for which we will create the appropriate hardware.

Solution 1: Stream using PowerPoint + OBS

- This solution is preferred when streaming directly to YouTube, Twitch, or other internet streaming platforms.
- It can also be used to stream to meeting platforms such as Microsoft Teams or Zoom via OBS's Virtual Camera function.

Solution 2: Stream using PowerPoint + Teams (without OBS)

- This solution works well for streaming via Microsoft Teams and is ideal for those who prefer a simpler streaming setup.

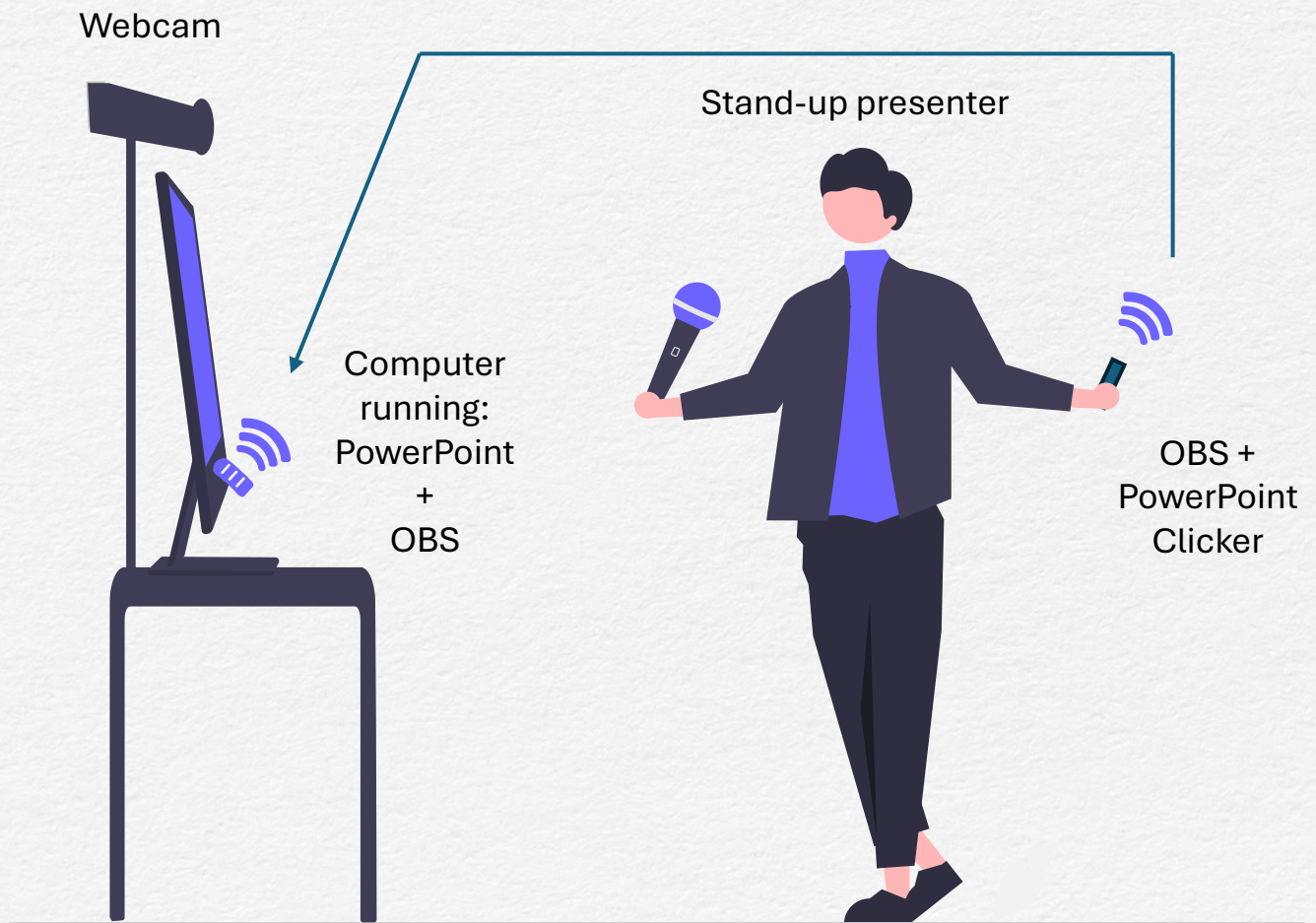


Solution 1: Stream using PowerPoint & OBS

Presenters typically use the OBS software to seamlessly switch between desktop slides and the camera view. OBS also manages the streaming aspect through its Virtual Camera function or by directly streaming to platforms such as YouTube, Teams, or Zoom.

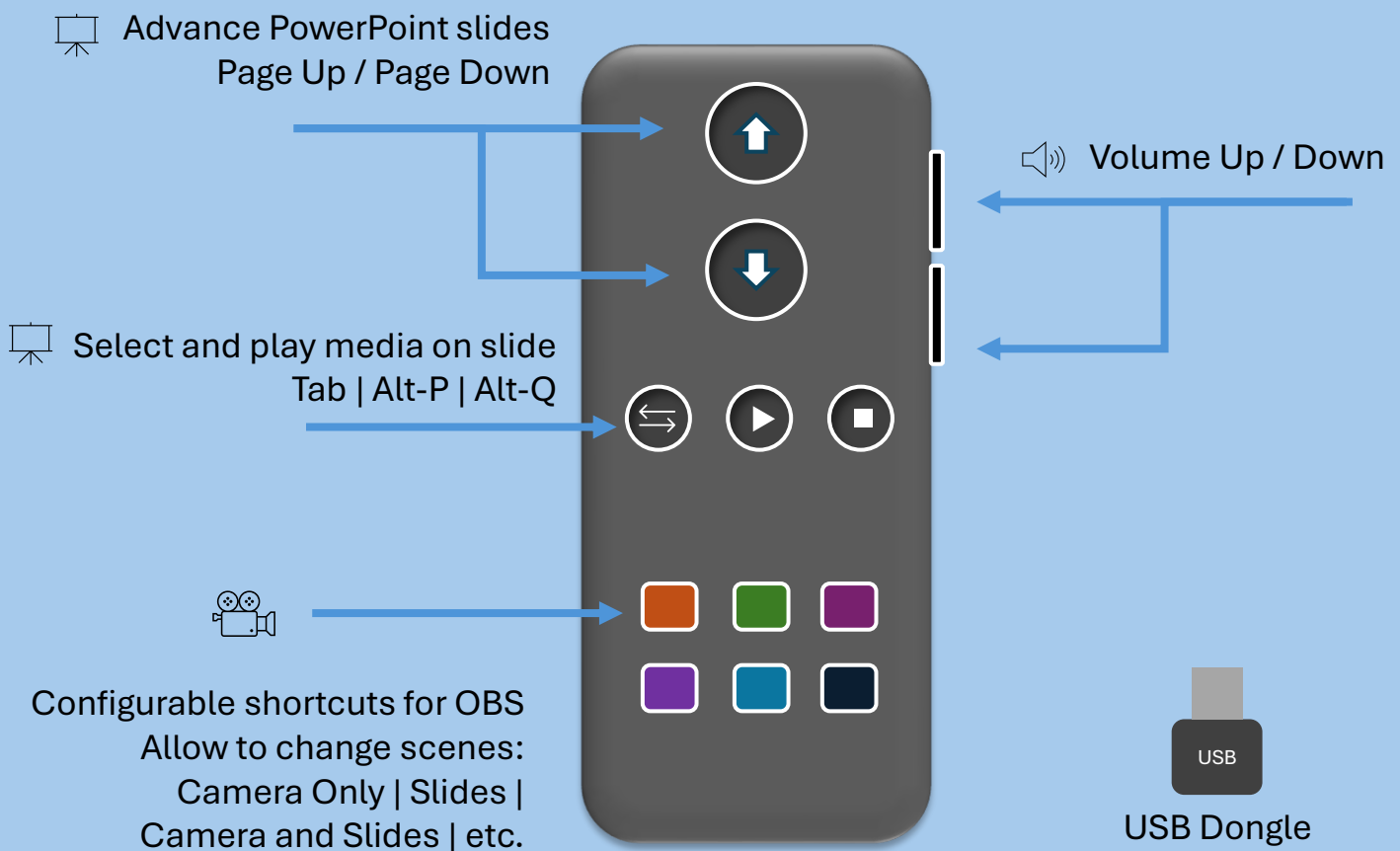
The only thing left for the presenter is to use a **Unified PowerPoint & OBS clicker** to both advance the slides and switch the camera view between scenes.

The problem is that such a device doesn't exist. **Let's design one!**



Clicker for PowerPoint & OBS

- The clicker will be a handheld remote with buttons for controlling both PowerPoint and OBS.
- A wireless receiver dongle will interface the clicker with the computer.
- The clicker will send keyboard shortcuts for PowerPoint and keyboard or MIDI commands for OBS.
- A middleware PC software will ensure interface with OBS



Solution 2: Stream using PowerPoint & Teams

For casual corporate meetings via Teams, you can skip the OBS setup.

Teams supports different scenes (Camera Only, Slides Only, Camera and Slides, Reporter Mode) that the presenter can utilize.

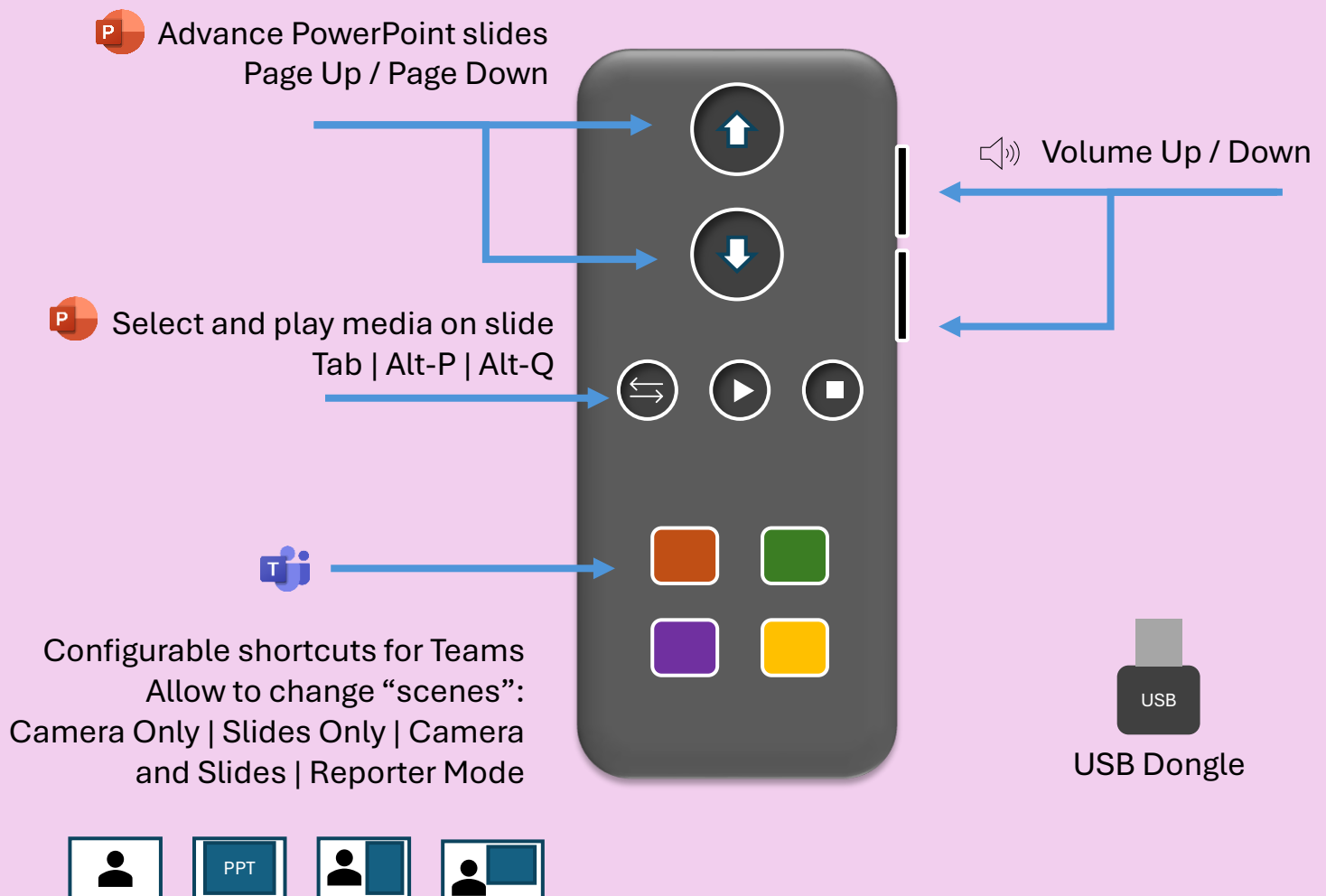
The only thing left for the presenter is to use a **Unified PowerPoint & Teams** clicker to both advance the slides and switch the Teams scenes.

The problem is that such a device doesn't exist. **Let's design one!**



Clicker for PowerPoint & Teams

- The clicker will be a handheld remote with buttons for controlling both PowerPoint and Teams.
- A wireless receiver dongle will interface the clicker with the computer.
- The clicker will send keyboard shortcuts to both PowerPoint (to advance slides) and Teams (to switch Teams scenes)



Real setup

- This is a real streaming setup that I personally used to deliver professional stand-up webinars from home.
- In addition, the setup is making use of a green screen.



Alternative solutions

According to my research, currently (Oct 2024) no other solution like this one exists on the market.

Here are some alternatives:

Alternative 1

- Use a regular PowerPoint clicker for PowerPoint
- Use a wired [Elgato Stream Deck](#), PC Keyboard or Midi device to switch OBS scenes

Alternative 2

- Use a regular PowerPoint clicker with multiple buttons for both PowerPoint and OBS
- Use a software such as AutoHotKey to intercept the additional buttons and direct them to OBS. As shown in this [video](#).

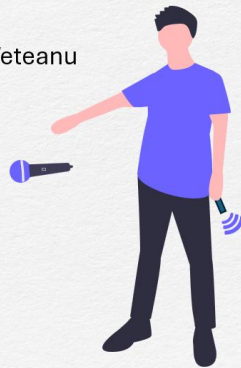
Alternative 3

- Use a regular PowerPoint clicker for PowerPoint
- Use Scott Hanselman's PowerPointToOBSSceneSwitcher to switch scenes in OBS based on current PowerPoint slide. Available from Scott's [GitHub repo](#) and presented on his [YouTube channel](#).

Physical Product Design:

A Unified Clicker for Stand-Up Webinars

original design by Marian Veteanu



You just finished reading the paper “**A Unified Clicker for Stand-Up Webinars**”.

Please make sure to read my other two physical product design papers from the same series.

If you’re interested in these designs, or have additional questions, please feel free to contact me.

Physical Product Design:

A Dedicated Coding Computer for Young Learners

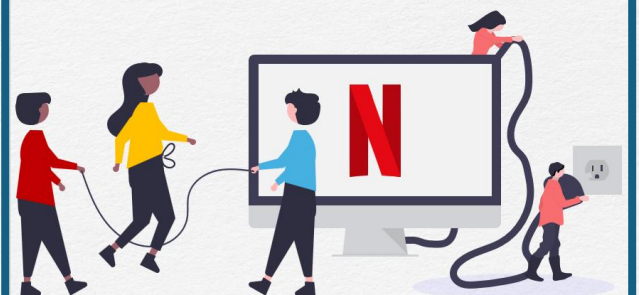
original design by Marian Veteanu



Physical Product Design:

AI Solutions for Managing Kids' TV Time

original designs by Marian Veteanu



Marian Veteanu

Technology Architect and Product Leader

Excited to join an organization
where I can make an impact!

Let's connect and explore opportunities—
message me!

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