



## Graphical tools for TV weather presentation

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Contemporary meteorology and its media presentation faces in my opinion following key tasks:

- Delivering the meteorological information to the end user/spectator in understandable and modern fashion, which follows industry standard of video output (HD, 16:9)
- Besides weather icons show also the outputs of numerical weather prediction models, climatological data, satellite and radar images, observed weather as actual as possible.
- Does not compromise the accuracy of presented data.
- Ability to prepare and adjust the weather show according to actual synoptic situation.
- Ability to refocus and completely adjust the weather show to actual extreme weather events.
- Ground map resolution weather data presentation need to be at least 20 m/pixel to be able to follow the numerical weather prediction model resolution.
- Ability to switch between different numerical weather prediction models each day, each show or even in the middle of one weather show.
- The graphical weather software need to be flexible and fast. The graphical changes need to be implementable and airable within minutes before the show or even live.

These tasks are so demanding and the usual original approach of custom graphics could not deal with it. It was not able to change the show every day, the shows were static and identical day after day. To change the content of the weather show daily was costly and most of the time impossible with the usual approach.

The development in this area is fast though and there are several different options for weather predicting organisations such as national meteorological offices and private meteorological companies to solve this problem. What are the ways to solve it? What are the limitations and advantages of contemporary graphical tools for meteorologists? All these questions will be answered.