

rePaper is an application that turns your desktop dynamic – reacting to time & weather outside. Application will minimize to system-tray & run in the background to play the effects.

System Requirement:

OS: Windows 10, 8.1, 7 - 64bit Only

Processor: Intel i3 or equivalent

Memory: 2048 MB RAM

Graphics: HD Graphics 4600 or above

DirectX: Version 11

Storage: 512 MB available space

Features:

- Video file as wallpaper support (Hardware Accelerated Playback optional)
- Most of the processing is done via gpu shaders, low cpu usage.
- Openweathermap API used to gather weather information.
- Real-time day/night cycle based on sunrise-sunset time.
- rePaper will pause when running fullscreen application or games (~0% cpu & gpu usage; main execution thread is stopped, background thread used for monitoring).
- rePaper will pause when application focus change (optional).
- Ultrawide resolution support, multimonitor systems are partially supported.
- Toggle windows 10 Light/Darkmode automatically based on time (optional).
- Automatically detect clock, text color based on wallpaper (picture wallpaper only).
- Your areas weather might not always be exciting, all the weather effects are user selectable.
- Customizable - adjustable performance settings (fps, blur quality) , custom UI color, different clock styles & more.
- Appears behind desktop icons.
- Brightness change based on time of day & weather - less bright when cloudy, raining.
- Runs at system startup (optional).
- Works with Rainmeter.
- Low Powermode on battery(optional).

Installation:

rePaper is meant to be portable in nature, just copy the extracted zip folder to desired location (admin rights might be required if you are copying to system locations) and run Start.exe.

To make the application run when windows starts select "Run at Startup" (disabled by default) in system-tray menu option.

How to Use:

When you first start, run the configuration utility by right clicking system-tray and selecting it.

Enter location information to retrieve location weather; Location data is sent to openweathermap.org

You can leave the location box blank if you just want to select a weather of your liking (enable check "control weather" box).

Picture/Video Wallpaper:

Use the system-tray menu to select video (mp4 file) /picture as wallpaper. You can also select a picture in windows explorer and set it wallpaper as you normally would, although the system-tray method is recommended.

NOTE:

- 720/1080p video clips of reasonable bitrate are recommended for low ram usage since part of the clip needs to be loaded into memory. Hardware accelerated video playback (low cpu & ram, high gpu usage) is available if you turn on DXVA in settings.
- For pictures, stick to size close to display resolution or less; when loading a picture ram usage will go up for processing (compressing texture), it will come down in a few seconds.
- Scaling setting has no effect on video, load correct aspect ratio video file instead.
- In DXVA, video color can be adjusted in gpu control panel software.
- When updating graphics driver, Exit the application.

Troubleshooting:

Q. Program launches in-front fullscreen, does not appear behind icons?

Open "This PC"(My Computer)-> Right-click -> Properties -> Advanced System Settings -> Performance -> Settings-> Enable Animate controls and elements inside windows & Apply. This setting is under multiple checkboxes in windows 7.

Q. Program Crashed?

Sent me a detailed report of what happened & the file "log output_log.txt" located at:
C:\Users\<Username>\AppData\LocalLow\Rocksdanister\rePaper-Unity
It should not contain any personal information, check to be sure.

Q. High GPU usage?

It can be due to several reasons (weather, fps, blur, loaded picture/video resolution), if the load on the gpu is too low then gpu will revert to 2D clockspeed (less than base clock, ~100-300mhz) to reduce power, if so then its normal for high usage.
If clockspeeds are high then try lowering the fps, blur quality or use lower resolution picture/video file.

Keep in mind taskmanager gpu usage is relative to clockspeed of the gpu, not absolute (example: 50% at 100mhz is better than 10% at 1000mhz).

Q. Program crashed & not starting properly again?

Probably corrupted configuration/save files, Delete the folder:
C:\Users\<Username>\Saved Games\rePaper & try again.

Q. Program crashed and desktop won't change?

In taskmanager end the process rePaper-Unity.exe, then apply a new wallpaper in windows settings to refresh desktop.

Q. Does the application require any permissions?

rePaper does not require any administrative rights to function (unless if you are copying the contents of zip folder to system location).

API Key:

In the future/or when weather stops working - you can replace the existing weather API key of openweathermap in the "config.xml" file located at: C:\Users\<Username>\Saved Games\rePaper\

By changing the field of <apiKey> "default" to your key.

Or you can use the API Key section in the settings utility.

Uninstall:

If 'run at startup' is enabled then disable it first so that the registry key 'rePaper-Unity' at:

[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run]

Gets deleted first, then simply Exit the application & delete the folder.

Save Files are located at: C:\Users\<Username>\Saved Games\rePaper\