

VWD – Exercise 4: due on 5.3.2021

Do the following tasks and fill in this **main spreadsheet**:

<https://docs.google.com/spreadsheets/d/1U4EU0DAo0wFATtrJW19sr-7UiJQHUzqP6u-7HaNjhZI/edit?usp=sharing>

1. Watch this 4 video tutorial series and check the related code. Pay special attention to the canvas layering technique we use. I'm sure many of you will find it useful in your projects:

Tutorials: https://www.youtube.com/watch?v=VcxVDahScp8&list=PLB0Tybl0UNfZQDddgbXm6eXmjDnrgiU_-

Code: <https://codepen.io/gniziemazity/pen/XWjRmxV>

Prepare answers to the following questions:

- Why do you think we use multiple canvases / layers?
- Why do we use a sprite sheet for the snowflakes and not just generate the fractals on the fly?
- Why do you think we generate leaves based on pixel values and not on the coordinates of the branches?
- In the last video at 9:55 there is a question. Try to answer it!
- Try the game on CodePen and find at least 2 features that were not taught in the tutorials. Can you tell how these were implemented? Enter "done" in the **main spreadsheet**. I will randomly ask you these during the next exercise (there were similar questions in the last weeks. prepare to answer those as well!)

2. Work on your projects and prepare for the final status report which will be on 12.3.

Enter "done" in the **main spreadsheet** if you made at least 2 improvements to the project since the last status report. List all improvements in the notes section, in bold, in the project mockups slides.

3. Make your very own camera effect! Bonus if you can procedurally generate sound based on what is in the image! Maybe based on the dominant color or movement or... something. Be creative! ☺

Enter the link in the **main spreadsheet**.

Alternative to Task 3:

Do the Codepen challenge of the week and enter the link to that in the **main spreadsheet** instead. If it will be showcased by Codepen at the end of the week you will get a bonus to your grade. Make sure I notice somehow (email, Facebook, Twitter, doesn't matter how, just try to reach me somehow when it happens).