

- 1) Read chapters 7 and 9 of “Learning processing”
- 2) Write a function that takes 2 screen coordinates as input and outputs the distance between these coordinates. Use this function in a program that registers 2 consecutive mouse clicks and displays the distance between these mouse clicks.
- 3) Write a function that takes an integer value as input parameter and outputs a string containing the hexadecimal value of the input parameter.
- 4) **Write a program that displays a static grid of 4x4 rectangles, filled with different colors (randomized at program startup), that outputs the (hexadecimal) color value of the rectangle where the mouse is clicked. Use an array to hold the rectangles color values. Use the predefined function templates defined in the lecture sheets as a basis.**

**The deliverable for this week is the program (pde file) you write for exercise 4 !**