**This week…**

Overview: After watching several videos highlighting the basics of the Processing IDE, students will create their own simple Canvas creation.

CS Standards:

* CSL1.6.1 Create programs to solve problems of level-appropriate complexity applying best practices of program design and format (e.g., descriptive names, documentation, indentation, whitespace)
* CSL1.9.2 Discuss version control and Integrated Development Environments (IDE)
* CSL1.9.1 Compare and contrast computer programming paradigms and languages (e.g.,text-based,visual, high-level, low-level, object-oriented)
* CSL1.8.1 Utilize networks to perform level-appropriate tasks

Learning Activities:

* ["Hello, Processing!" Tutorial](https://docs.google.com/document/d/1MgX-W3lC8PjQbV1dl9zlX572stvkHbguWdxD00Kmy3E/copy)
* [Alternative “Hello, Processing!”](https://docs.google.com/document/d/1tHAB0p5bpTDnalh5qDVXSfqS5MtBkRscvjx-70cCqFo/copy)
* [Processing Discussion](https://docs.google.com/document/d/1VS9aQe7Z2Qz13hD7LJme3tCUFnDyG6-2aOy0BTgNu2g/copy)

For a Grade

* [Hello Processing (Shape Assignment) (16 pts)](https://docs.google.com/document/d/134vTZeAES7vz-07AtCcJKuF2TXKyBpZ4Is9Pbqh6VZ0/copy)
* [Processing Discussion Post (10 pts)](https://docs.google.com/document/d/1VS9aQe7Z2Qz13hD7LJme3tCUFnDyG6-2aOy0BTgNu2g/copy)
* [Processing Practice (10 pts)](https://docs.google.com/document/d/1GqzsXMPn_rLIFD2z-ODkL_zprjNCj9IyN29gVrdef0E/copy)

Equipment: The activities this week require the students to program using a basic IDE called [Processing](https://processing.org/). Processing works best if the students can [download the software](https://processing.org/download/) onto a computer, but can work via an [online adaptation](https://valentin.dasdeck.com/processing/). The students will also need to watch introductory videos through the Processing website. If a student has access to a computer, but not reliable internet, excerpts of the videos, [linked here](https://drive.google.com/open?id=1w_Pk9IbF94QiMASY2icsehHLPN8Kyybn), can be sent to the student via an external drive or through a download.

This is an introductory lesson. The students will start by making geometric shapes: ellipse, rectangle, triangle. They can learn more about Processing through watching [tutorials](https://processing.org/tutorials/) or by reviewing the Processing [reference](https://processing.org/reference/) web page.