

# Project Group 02 Axolotl Limb Regeneration, DS 4200 S22

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Service-Learning Course Project as part of [Ds 4200 S22 Information Presentation & Visualization](#), taught by [Prof. Cody Dunne](#), [Data Visualization @ Khoury, Northeastern University](#).

## Abstract

The focus of this project is on the change of gene expression levels throughout the regeneration process of a salamander limb. We have acquired a dataset from James Monaghan containing gene expression levels from 20,000 genes during the regeneration of axolotl limbs. The motivation behind this project is to create an interactive and queryable visualization that is easily digestible and demonstrates significant trends in changes in gene expression. We hope to make the data and information from James Monaghan's studies easier to understand to progress the fields of homeostasis and regenerative medicine. Current visualizations for this data can be difficult to comprehend and explore since they are basic and lack a web-based or interactive component of the visualization. We hope to aid scientists in their findings to further the knowledge about regenerative genes.

<https://neu-ds-4200-s22-students.github.io/project-g02-axolotl-limb-regeneration/>