**Naïve Bees: Image Loading and Processing**

Load, transform, and understand images of honey bees and bumble bees in Python.

#### Project Description

Can a machine distinguish between a honey bee and a bumble bee? Being able to identify bee species from images, while challenging, would allow researchers to more quickly and effectively collect field data. In this Project, you will use the Python image library Pillow to load and manipulate image data. You'll learn common transformations of images and how to build them into a pipeline.

This project is the first part of a series of projects that walk through working with image data, building classifiers using traditional techniques, and leveraging the power of deep learning for computer vision. The second project in the series is [Naïve Bees: Predict Species from Images](https://www.datacamp.com/projects/412).

The recommended prerequisites for this project are [Intermediate Python for Data Science](https://www.datacamp.com/courses/intermediate-python-for-data-science) and [Introduction to Data Visualization with Python](https://www.datacamp.com/courses/introduction-to-data-visualization-with-python).

#### Project Tasks

* 1 Import Python libraries
* 2 Opening images with PIL
* 3 Image manipulation with PIL
* 4 Images as arrays of data
* 5 Explore the color channels
* 6 Honey bees and bumble bees (i)
* 7 Honey bees and bumble bees (ii)
* 8 Simplify, simplify, simplify
* 9 Save your work!
* 10 Make a pipeline