

Code Editors & Development

In this module, we talked a lot about software tools you can license, buy, or use. As with any software, these applications were created by someone who knows how to code. Having skills and knowledge in coding can allow you to create custom applications for your project or community. Below is discussion of some quick basics for coding, what programming languages are generally used in language documentation software, and some general uses. It is not meant to be comprehensive or in-depth.

Types of Programming

The most useful technical skills for those wanting to do-it-yourself (or wanting to learn about coding), include knowledge and use of *programming languages*, those who understand *database development* and management, and those who can provide *server administration*.

Programming Languages

- Python
- Structured Query Language (SQL)
- JavaScript

Database Management

- SQLite
- Postgres

Server Administration

- NGIX
- UNIX

What are these used for?

- Python is a computer language used for tasks like document processing, application design, and development.
- Databases are used to enter, store, organize and analyze information (SQL, Database Design)
- JavaScript is a computer language used for web and phone-based application development

Training & Resources

Working in this way does require training, and it's not necessarily easy. But you may have resources in these areas, and language documentation projects are great places for your coders and developers to get some excellent experience and provide a lot of help. Training is required in the following areas:

Coding

The most important computer programming languages to learn are those listed above and this may require a certificate or degree in coding.

Code Versioning & Management

The most common platform for this is called GitHub. Code versioning, or version control, tracks and manages changes to software and other digital assets over time, acting as a "time machine" to revert to previous versions, collaborate efficiently, and maintain code integrity.

Database Design & Application Development

This includes containerization. In database management, containerization involves packaging a database and its entire runtime environment—including code, configurations, libraries, and dependencies—into a lightweight, isolated, and portable container.

Creating and managing databases; organizing, processing, and regularizing documents; and building applications are all learnable skills and have value in language work, but also in the world outside of your project.