Basic QR Code Maker

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1 Introduction

QR Codes can be found anywhere, from markets to books which can be a substitute in using bar codes but also to provide more accessibility into a variety of fields such as Geo-locations, URL links, and messages embedded in it. The practice project introduces the basic usage of QR Code in Python, how to customize it, and how to apply it in the resume.

2 Explanation

The main.py file uses qrcode and qrcode.image.svg libraries to produce QR Codes in three different ways:

2.1 Simple QR Code

QR Codes can be produced by using qrcode.make(data), where the data is the input of the user that will be placed in the QR Code. This is very convenient for beginners to make QR Code in Python.

2.2 Customized QR Code

QR Codes can be customized depending on the user desires. The qrcode.QRCode() makes the QR Codes customizable such as changing the color of the code, as well as the size, the border, and the fit of the code.

2.3 SVG QR Code

QR Codes can be created in Scalable Vector Graphic (SVG) format. The SVG format stores images as vectors, which is commonly used in webpages to maintain the high quality of the image no matter the size of the device. The qrcode.image.svg.SvgPathImage makes the creation of QR Codes possible in svg format.

3 Future Work

Explore the libraries to create more code features and aesthetics. Create a game that features QR Codes. This can be done through mazes, clue detectors, or abstract arts.