

Class 04
On
Course: CS-103

Conducted By:

Nakib Aman Turzo

Lecturer

Department of CSE

Varendra University



Google Sheets Advanced Features

- Add images to cells
- To place an image straight into a cell type =image("URL of the image you want to add"). There are a few options for inserting and formatting images:
- =image("URL of the image",1) image scaled to fit the cell
- =image("URL of the image",2) image stretched to fit the cell
- =image("URL of the image",3) image keeps its original size
- =image("URL of the image",4) image in a custom size



Create QR codes

- QR codes can be used for a number of reasons including WiFi login, concert tickets, advertisements, and product purchases. Google Sheets lets you generate QR codes with any input you like. Just use the following formula:
- =image("https://chart.googleapis.com/chart?chs=150×150& cht=qr&chl="&A2).
- A2 is the cell with the URL or text you want to use to create your QR code.



Get only unique values from a column

 Use the function UNIQUE() to get a list of unique values from a range or column.

Web scraping with Google Sheets

- You can access data from a website in your spreadsheet without having to copy and paste using the IMPORTHTML() or IMPORTXML() functions.
- Copy the formula below into A1 and you'll see the same data as the image below:
- =IMPORTHTML("https://en.wikipedia.org/wiki/List_of_highest-grossing_films","table",1)





Detect a language

 Google has a built-in language detector. Use the formula DETECTLANGUAGE() and it will return a two letter language code.

Full language list can be derived form the following link-

https://en.wikipedia.org/wiki/List of ISO 639-1 codes



Translate a language

- Google can detect a language but also translate from one language to another.
- The formula GOOGLETRANSLATE() has three parts text to translate, the current language of the text, and the language you want to translate into.



Check for valid emails and URLs

- The function ISEMAIL() checks to see if a string of text or cell has a valid email syntax.
- The function ISURL() returns true or false if a string of text or cell has a valid URL.



Project future results with GROWTH() - 1

- The GROWTH() function can be used to extrapolate a trend and predict future values.
- The image below shows the sales of a product over 5 periods. With the formula =growth(B1:B5,A1:A5,A7:A9) you can estimate what the values would be for 6 8.



Project future results with GROWTH() - 2

<i>f</i> 5c =growth(B1:B5,A1:A5,A7:A9)			
	A	В	
1	1	200	
2	2	210	
3	3	235	
4	4	251	
5	5	260	
6			
7	6	284	
8	7	305	
9	8	327	
10			
11			
12			



Pick randomly from a list

- The functions CHOOSE() AND RANDBETWEEN() help you pick a value from a defined list. RANDBETWEEN() generates a random integer between 1 and 5. CHOOSE() helps you pick from the list of entries.
- =CHOOSE(RANDBETWEEN(1,5),"London","Berlin","Rome","Madrid","Li sbon")