# Lesson 1 & 2

function testDoc(){

const doc = DocumentApp.getActiveDocument();

const body = doc.getBody();

body.appendParagraph('Hello World');

body.appendPageBreak();

Logger.log(body);

}

function addtoDoc(){

const id = '1kDCr9jm1IovQ4GmpJYGDGToLmb6WZn6M679fF3Q6ZKU';

const doc = DocumentApp.openById(id);

const body = doc.getBody();

body.appendParagraph('Hello World');

body.appendHorizontalRule();

body.appendPageBreak();

Logger.log(doc);

}

function createmyDoc(){

let myName = 'Tester Docs ';

const doc = DocumentApp.create(myName);

Logger.log(doc.getId());

Logger.log(doc.getUrl());

Logger.log(doc.getEditors());

myName += ' ' + doc.getId();

doc.setName(myName);

const body = doc.getBody();

body.appendParagraph('Hello World in '+myName);

body.appendParagraph('URL ' + doc.getUrl());

body.appendParagraph('NAME ' +doc.getName());

body.appendParagraph('Editors ' +doc.getEditors());

body.appendHorizontalRule();

body.appendPageBreak();

}

# Lesson 3

function selContent(){

const id = '1u4hbYfNe64B2MTepfkWPA8j92HcaymFac6m0pni5RMk';

const doc = DocumentApp.openById(id);

const body = doc.getBody();

const data = body.getText();

const paras = body.getParagraphs();

const spanVer = LanguageApp.translate(data,'en','es');

body.appendHorizontalRule();

body.appendParagraph('In Spanish');

body.appendHorizontalRule();

body.appendParagraph(spanVer);

Logger.log(paras);

}

function updateContent(){

const id = '1u4hbYfNe64B2MTepfkWPA8j92HcaymFac6m0pni5RMk';

const doc = DocumentApp.openById(id);

const body = doc.getBody();

for(let i=0;i<10;i++){

let temp = `${i}

'Hello' "Hi" More text being added .....

`;

body.appendParagraph(temp);

}

}

# Lesson 4

function getParas(){

const id = '1u4hbYfNe64B2MTepfkWPA8j92HcaymFac6m0pni5RMk';

const doc = DocumentApp.openById(id);

const body = doc.getBody();

const paras = body.getParagraphs();

paras[0].setHeading(DocumentApp.ParagraphHeading.HEADING1);

paras.forEach((p,index)=>{

Logger.log(p.getTextAlignment());

Logger.log(p.getType());

let temp = p.getText();

temp = index + '. '+p.getType()+' '+p.getTextAlignment()+' '+ temp;

p.setText(temp);

p.setTextAlignment(DocumentApp.TextAlignment.NORMAL);

})

}

# Lesson 5

function getParas(){

const id = '1u4hbYfNe64B2MTepfkWPA8j92HcaymFac6m0pni5RMk';

const doc = DocumentApp.openById(id);

const body = doc.getBody();

const paras = body.getParagraphs();

paras.forEach((p,index)=>{

//Logger.log(p.getNumChildren());

let temp = p.getText();

//p.appendText(' ' + index);

})

Logger.log(paras[2].getText());

Logger.log(paras[2].getNextSibling().asText().getText());

}

# Lesson 6

function bodyEle(){

const id = '1u4hbYfNe64B2MTepfkWPA8j92HcaymFac6m0pni5RMk';

const doc = DocumentApp.openById(id);

const body = doc.getBody();

//Logger.log(body.getNumChildren());

for(let i=0;i<body.getNumChildren();i++){

//Logger.log(body.getChild(i));

let temp = body.getChild(i);

//Logger.log(temp.getType());

let contentInside = temp.asText().getText();

//Logger.log(contentInside);

if(temp.getType() == 'PARAGRAPH'){

let val = temp.asParagraph().editAsText().setFontSize(20);

if(temp.asParagraph().getText().length > 5){

let endPos = 3;

let startPos = 1;

val.setBackgroundColor(startPos,endPos,'#0000ff');

}

Logger.log(val);

//temp.asParagraph().insertText(1,' NEW '+i);

}

}

}

# Lesson 7

function docContents(){

const id = '1u4hbYfNe64B2MTepfkWPA8j92HcaymFac6m0pni5RMk';

const doc = DocumentApp.openById(id);

const body = doc.getBody();

const txt = body.editAsText();

Logger.log(txt.getText().length);

txt.insertText(0,"#NEWCOLOR").setFontSize(0,8,30).setBackgroundColor(0,8,'#ff00ff').setForegroundColor(0,8,'#ffffff');

txt.insertText(20,"#NEWBOLD").setBold(20,27,true);

//val2.setBold(20,26,true);

Logger.log(txt);

}

# Lesson 8

function addStyles(){

const id = '1u4hbYfNe64B2MTepfkWPA8j92HcaymFac6m0pni5RMk';

const doc = DocumentApp.openById(id);

const body = doc.getBody();

const paras = body.getParagraphs();

//Logger.log(paras.length);

const style1 = {};

style1[DocumentApp.Attribute.FONT\_SIZE] = 22;

style1[DocumentApp.Attribute.FOREGROUND\_COLOR] = '#ffffff';

style1[DocumentApp.Attribute.BACKGROUND\_COLOR] = '#ff0000';

const style2 = {};

style2[DocumentApp.Attribute.FONT\_SIZE] = 12;

style2[DocumentApp.Attribute.FOREGROUND\_COLOR] = '#000000';

style2[DocumentApp.Attribute.BACKGROUND\_COLOR] = '#ffffff';

paras.forEach((el,index)=>{

if(el.getText().length > 0 ){

Logger.log(el.getText().length);

Logger.log(el.getNumChildren());

Logger.log(el.getAttributes());

let val = el.appendText('NEW');

val.setAttributes(style1);

if(index==2){

el.setAttributes(style2);

}

}

})

}

/\*

{HORIZONTAL\_ALIGNMENT=null, LINE\_SPACING=null, HEADING=Normal, BOLD=null, LEFT\_TO\_RIGHT=true, BACKGROUND\_COLOR=null, INDENT\_END=null, INDENT\_FIRST\_LINE=null, STRIKETHROUGH=null, LINK\_URL=null, FONT\_FAMILY=null, INDENT\_START=null, UNDERLINE=null, ITALIC=null, SPACING\_AFTER=null, FONT\_SIZE=12.0, SPACING\_BEFORE=null, FOREGROUND\_COLOR=null}

\*/

# Lesson 9

function replacer(){

const style = {};

style[DocumentApp.Attribute.FOREGROUND\_COLOR] = '#0000ff';

style[DocumentApp.Attribute.BACKGROUND\_COLOR] = '#ffff00';

const id = '1u4hbYfNe64B2MTepfkWPA8j92HcaymFac6m0pni5RMk';

const body = DocumentApp.openById(id).getBody();

const rep = body.replaceText('(?i)Lorem','LAURENCE');

let founder = body.findText('LAURENCE');

while (founder != null){

let val = founder.getElement().asText();

Logger.log(val);

let start = founder.getStartOffset();

let end = founder.getEndOffsetInclusive();

Logger.log(start, end);

val.setBackgroundColor(start,end,'#ff0000');

val.setForegroundColor(start,end,'#ffffff');

//val.setAttributes(style);

founder = body.findText('LAURENCE',founder);

}

//Logger.log(founder);

//founder.getElement().setAttributes(style);

//rep.setAttributes(style);

}

Examples of regular expressions https://support.google.com/a/answer/1371417?hl=en

Regex Generator https://regexr.com/

# Lesson 10

function addList(){

const body = DocumentApp.getActiveDocument().getBody();

//Logger.log(body.editAsText().getText());

const val1 = body.appendListItem('item 1');

Logger.log(val1.getListId());

//kix.uq8c9jsmuygr

body.appendParagraph('new list');

const val2 = body.appendListItem('item 2');

val2.setListId(val1);

Logger.log(val2.getListId());

for(let i=0;i<10;i++){

let val3 = body.appendListItem('item '+(i+2));

val3.setListId(val1);

}

}

# Lesson 11

// source 1ma0ccRNdl9CSsbbdxDKkkY9sANzgi2S8Ylf7NTHK6Pk

function addLorem(){

const id = '1ma0ccRNdl9CSsbbdxDKkkY9sANzgi2S8Ylf7NTHK6Pk';

const body = DocumentApp.getActiveDocument().getBody();

const sourceLorem = DocumentApp.openById(id).getBody();

body.clear();

const data = sourceLorem.getText();

body.appendParagraph(data);

}

# Lesson 12

function addTable(){

const style = {};

style[DocumentApp.Attribute.FOREGROUND\_COLOR] = '#0000ff';

style[DocumentApp.Attribute.BACKGROUND\_COLOR] = '#ffff00';

const body = DocumentApp.getActiveDocument().getBody();

body.clear();

//const arr = [['col1','col2','col3'],['1','2','3'],['4','5','6']];

const arr = getData();

const val = body.appendTable(arr);

Logger.log(val);

const row = val.insertTableRow(4);

row.insertTableCell(0,'TEST1');

row.insertTableCell(1,'TEST2');

row.insertTableCell(2,'TEST3');

row.setAttributes(style);

}

function getData(){

const id = '18EiSL1V4IAWvVi0vJsKc\_JEIK1\_bF4Ulo3L3Wb716II';

const ss = SpreadsheetApp.openById(id).getSheets()[0];

const data = ss.getDataRange().getValues();

Logger.log(data);

return data;

}

# Lesson 13

function onOpen(){

const ui = DocumentApp.getUi();

ui.createMenu('Adv')

.addItem('alert','popAlert')

.addSeparator()

.addItem('prompt','popPrompt')

.addToUi();

}

function popAlert(){

const ui = DocumentApp.getUi();

const rep = ui.alert('Do you like Docs',ui.ButtonSet.YES\_NO\_CANCEL);

let message = 'Why not - to bad';

if(rep == ui.Button.YES){

message = 'Great I\'m happy to hear that';

}

ui.alert(message);

}

function popPrompt(){

const ui = DocumentApp.getUi();

const rep = ui.prompt('Rate 1-5',ui.ButtonSet.OK);

if(rep.getSelectedButton() == ui.Button.OK){

let val = rep.getResponseText();

ui.alert('We got the rating '+val);

}else{

ui.alert('Why did you close it???');

}

}

# Lesson 14

function onOpen(){

const ui = DocumentApp.getUi();

ui.createMenu('fun')

.addItem('Lorem ipsum','adder')

.addToUi();

}

function adder(){

const cursor = DocumentApp.getActiveDocument().getCursor();

const id = '1ma0ccRNdl9CSsbbdxDKkkY9sANzgi2S8Ylf7NTHK6Pk';

const sourceContent = DocumentApp.openById(id).getBody().getText();

if(cursor){

const val = cursor.insertText(sourceContent);

if(val){

//val.setBackgroundColor('#ff0000');

val.setBold(true);

}

}

}

# Lesson 15

function onOpen(){

const ui = DocumentApp.getUi();

ui.createMenu('fun')

.addItem('Lorem ipsum','adder')

.addItem('Highlighter','highlight')

.addToUi();

}

function highlight(){

const ui = DocumentApp.getUi();

const body = DocumentApp.getActiveDocument().getBody();

const rep = ui.prompt('Highlight What',ui.ButtonSet.OK\_CANCEL);

if(rep.getSelectedButton() == ui.Button.OK){

let findThis = rep.getResponseText();

let searchMe = body.findText(findThis);

while(searchMe != null){

let val = searchMe.getElement().asText();

let start = searchMe.getStartOffset();

let end = searchMe.getEndOffsetInclusive();

val.setBackgroundColor(start,end,'#000000');

val.setForegroundColor(start,end,'#000fff');

searchMe = body.findText(findThis ,searchMe);

}

}

}

function adder(){

const cursor = DocumentApp.getActiveDocument().getCursor();

const id = '1ma0ccRNdl9CSsbbdxDKkkY9sANzgi2S8Ylf7NTHK6Pk';

const sourceContent = DocumentApp.openById(id).getBody().getText();

if(cursor){

const val = cursor.insertText(sourceContent);

if(val){

//val.setBackgroundColor('#ff0000');

val.setBold(true);

}

}

}

# Lesson 16

function onOpen(){

const ui = DocumentApp.getUi();

ui.createMenu('Adv')

.addItem('html Modal','modal1')

.addItem('file Modal','modal2')

.addToUi();

}

function modal1(){

const output = '<h1>Hello World</h1>';

const html = HtmlService.createHtmlOutput(output)

.setWidth(600)

.setHeight(500);

DocumentApp.getUi().showModalDialog(html,'Title Popup');

}

function modal2(){

const html = HtmlService.createHtmlOutputFromFile('popup')

.setWidth(600)

.setHeight(500);

DocumentApp.getUi().showModelessDialog(html,'Title Modal');

}

# Lesson 17

function onOpen(){

const ui = DocumentApp.getUi();

ui.createMenu('Adv')

.addItem('html Modal','modal1')

.addItem('file Modal','modal2')

.addItem('html Sidebar','side1')

.addItem('file Sidebar','side2')

.addToUi();

}

function side1(){

const output = '<h1>Hello World</h1>';

const html = HtmlService.createHtmlOutput(output)

.setWidth(600)

.setHeight(500);

DocumentApp.getUi().showSidebar(html);

}

function side2(){

const html = HtmlService.createHtmlOutputFromFile('popup')

.setWidth(600)

.setHeight(500);

DocumentApp.getUi().showSidebar(html);

}

function modal1(){

const output = '<h1>Hello World</h1>';

const html = HtmlService.createHtmlOutput(output)

.setWidth(600)

.setHeight(500);

DocumentApp.getUi().showModalDialog(html,'Title Popup');

}

function modal2(){

const html = HtmlService.createHtmlOutputFromFile('popup')

.setWidth(600)

.setHeight(500);

DocumentApp.getUi().showModelessDialog(html,'Title Modal');

}

# Lesson 18

function onOpen(){

const ui = DocumentApp.getUi();

ui.createMenu('Adv')

.addItem('addImage','addImage')

.addToUi();

}

function addImage(){

const doc = DocumentApp.getActiveDocument();

const cursor = doc.getCursor();

const url = 'https://dummyimage.com/300x200/0fff00/f000ff';

const myImage = UrlFetchApp.fetch(url).getBlob();

cursor.insertInlineImage(myImage);

}

function insertImage(){

const body = DocumentApp.getActiveDocument().getBody();

const url = 'https://dummyimage.com/600x400/000/fff';

const myImage = UrlFetchApp.fetch(url).getBlob();

const img = body.insertImage(0,myImage);

Logger.log(img);

const img1 = body.appendImage(myImage);

}