

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 = '1kDCr9jm1lovQ4GmpJYGDGToLmb6WZn6M679fF3Q6ZKU';
  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').setForeg
roundColor(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','add')
```



```
.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 = '1ma0ccRNdl9CSsbbdxDKkkY9sANzgi2S8YIf7NTHK6Pk';
    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);
}

```