

#1

```
function makeSheet() {
  const ss = SpreadsheetApp.create('testSheet1');
  const sheet = ss.insertSheet('chart');
  sheet.appendRow(['Date', 'Team A', 'Team B']);
  const today = new Date();
  const day = 1000*60*60*24;
  for(let i=0;i<20;i++){
    const datePlayed = new Date(today.getTime() + (100*day)+(i*3*day));
    const score1 = Math.floor(Math.random()*20);
    const score2 = Math.floor(Math.random()*20);
    sheet.appendRow([datePlayed,score1,score2]);
  }

  const remover = ss.getSheetByName('sheet1');
  ss.deleteSheet(remover);
  Logger.log(ss.getId());
}

function makeChart(){
  const id = '1y1CLO0EqDirKpWBxzqDhAoL-GhudGp0M73Lr9o1lGFU';
  const ss = SpreadsheetApp.openById(id);
  const sheet = ss.getSheetByName('chart');
  Logger.log(ss);
  const range = sheet.getDataRange();
  const hAxis = {
    gridlines: {count:10}
  }
  const temp = sheet.newChart().asLineChart();
  const chart = temp
    .addRange(range)
    .setPosition(3,5,0,0)
    .setNumHeaders(1)
    .setOption('hAxis',hAxis)
    .build();
  sheet.insertChart(chart);
}
```

#2

```
function slideMakers(){
  const id = '1y1CLO0EqDirKpWBxzqDhAoL-GhudGp0M73Lr9o1lGFU';
  const ss = SpreadsheetApp.openById(id);
  const sheet = ss.getSheetByName('chart');
  const charts = sheet.getCharts();
  Logger.log(charts);
}
```

```

const slides = SlidesApp.create(sheet.getName());
const els = slides.getSlides()[0].getPageElements();
els.forEach((el)=>{
    el.remove();
})
slides.getSlides()[0].insertTextBox('Welcome to the Charts');
charts.forEach((chart)=>{
    const newSlide = slides.appendSlide();
    newSlide.insertSheetsChart(chart,20,10,600,400);
})
}

```

#3

```

function makeaPDF() {
    const id = '1y1CLO0EqDirKpWBxzqDhAoL-GhudGp0M73Lr9o1lGFU';
    const oldFile = DriveApp.getFileById(id);
    Logger.log(oldFile.getName());
    const blob = oldFile.getBlob();
    const file = DriveApp.createFile(blob); //create from blob
    file.setName('Slides Tester');
    const pdf = file.getAs('application/pdf');
    const file2 = DriveApp.createFile(pdf);
    file2.setName('As PDF');
    const email = Session.getActiveUser().getEmail();
    MailApp.sendEmail(email, 'PDF attached', '', {
        attachments: [file.getAs('application/pdf')],
        name: 'Attach PDF'
    })
}

```

#4

```

function onOpen(e) {
    const ui = DocumentApp.getUi();
    ui.createAddonMenu()
    .addItem('fun 1', 'fun1')
    .addItem('fun 2', 'fun2')
    .addToUi();
    ui.createMenu('Custom Menu')
    .addItem('fun 1', 'fun1')
    .addItem('fun 2', 'fun2')
    .addToUi();
    //const doc = DocumentApp.getActiveDocument();
}

```

```

    //const newContent = String(new Date());
    //Logger.log(e);
    //const eventDetails = JSON.stringify(e);
    //doc.getBody().appendParagraph(eventDetails);

}

function fun1(){
const doc = DocumentApp.getActiveDocument().getBody();
const txt = doc.editAsText();
txt.insertText(10, 'New Text \n New Line \n');
}

function fun2(){
const doc = DocumentApp.getActiveDocument().getBody();
const para = doc.appendParagraph('New Paragraph');
}

```

#5

```

function onEdit(e) {
    logger(JSON.stringify(e));
    const range = e.range;
    range.setNote('Updated '+new Date());
    logger(range.getLastRow());
    range.setBackground('#00ff00');
}

function onSelectionChange(e) {
    const range = e.range;

logger2(['Selection', JSON.stringify(e), range.getNumRows(), range.getNumColumns(), range.
getFontSize(), JSON.stringify(range.getBackgrounds())]);
    let total = range.getNumRows() + range.getNumColumns();
    if(total > 8){
        range.setBackground('#ee00ff');
    }else{
        range.setBackground('#00cc22');
    }
}

function onOpen(e) {
    //const ss = SpreadsheetApp.getActiveSpreadsheet();
    //const menuItems = [{name: 'Fun 1', functionName: 'fun1'}];
    ///ss.addMenu('adv', menuItems);
    //ui.createAddonMenu()
    logger(JSON.stringify(e));
}

```

```

    const ui = SpreadsheetApp.getUi();
    ui.createMenu('NEW')
      .addItem('fun 1', 'fun1')
      .addToUi();
  }
function logger2(val){
  const ss = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('logger');
  ss.appendRow(val);
}
function logger(val){
  const ss = SpreadsheetApp.getActiveSpreadsheet().getSheetByName('logger');
  ss.appendRow([val]);
}
function fun1(){
  const ss = SpreadsheetApp.getActiveSpreadsheet().getActiveSheet();
  ss.appendRow(['NEW', 'Cols']);
}

```

#6

```

function doGet(e) {
  //const html = JSON.stringify(e);
  const html = '<h1>Hello World</h1>'
  return HtmlService.createHtmlOutput(html);
}

```

#7

```

function fun1(){
  const id = '1DbghUBYtBoXeR3B7i3iFVUjkpmEIKWUJnHk7LG6Wi0o';
  const doc = DocumentApp.openById(id).getBody();
  const val = String(new Date());
  Logger.log(doc);
  doc.appendParagraph(val);
}
function fun2(){
  const id = '1DbghUBYtBoXeR3B7i3iFVUjkpmEIKWUJnHk7LG6Wi0o';
  const doc = DocumentApp.openById(id).getBody();
  const val = 'Hello World';
  doc.appendParagraph(val);
  doc.appendHorizontalRule();
}
function addTrigger(){
  ScriptApp.newTrigger('fun2')
    .timeBased()

```

```
.everyMinutes(1)
.create();

}

function updateTriggers(){
  const allTriggers = ScriptApp.getProjectTriggers();
  Logger.log(allTriggers);
  allTriggers.forEach((tri)=>{
    Logger.log(tri.getUniqueId());
    Logger.log(tri.getEventType());
    Logger.log(tri.getHandlerFunction());
    if(tri.getHandlerFunction() == 'fun2'){
      ScriptApp.deleteTrigger(tri);
    }
  })
}
```

<https://developers.google.com/apps-script/guides/services/quotas> - get quotas