

# Advanced XojoScript: Xojo's Coolest Feature



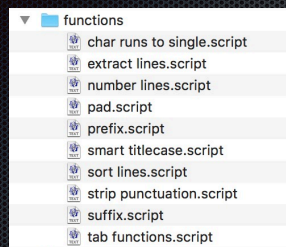
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## Advanced Scripting Techniques

- Building a function library
- Replicating Xojo Objects
- Create Your Own API

## Build a Function Library



## Example: Transmogrify





# Replicating Xojo Objects

```
class dateClass
  private dateID as integer
  sub constructor()
    dateID = date_newDate
  end sub

  property year as integer
  get
    return date_getYear(dateID)
  end get
  set
    date_setYear(dateID, value)
  end set
end property

  property month as integer
  get
    return date_getMonth(dateID)
  end get
  set
    date_setMonth(dateID, value)
  end set
end property

  function SQLDate() as string
    return date_SQLDate(dateID)
  end function
```

# Build a Date Class Clone

- Define the class in Xojoscript:

```
class dateClass
  private dateID as integer
  sub constructor()
    dateID = date_newDate
  end sub
```

- Call back to main Xojo app:

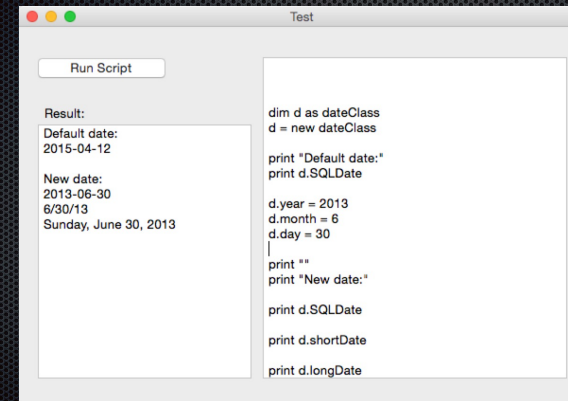
```
Public Function date_newDate() as integer
  if dateList = nil then dateList = new dictionary
```

```
  dim id as integer = dateList.count + 1
  dateList.value(id) = new date
```

```
  return id
End Function
```

Demo:

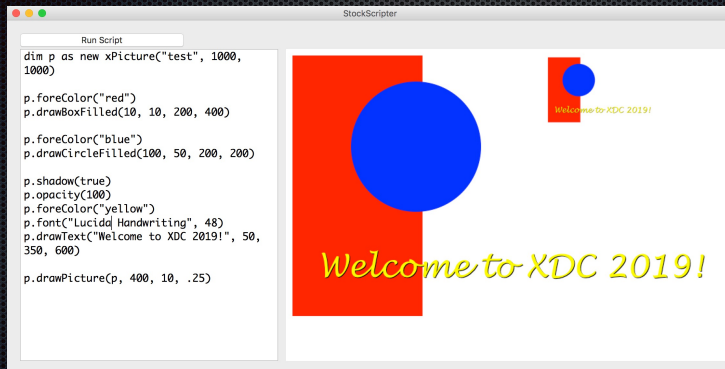
## Date Class Clone





Demo:

## Picture Class Clone



## Create Your Own API

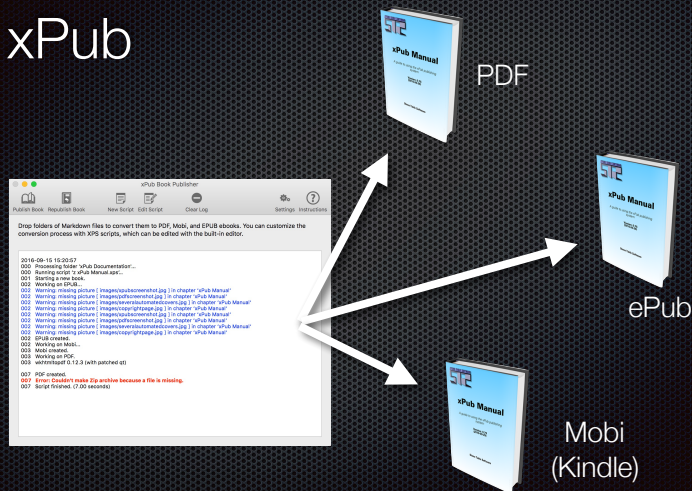
```
class xPubPicture
  sub crop(leftAmount as integer,
    rightAmount as integer,
    topAmount as integer,
    bottomAmount as integer)
    pict_crop(name, leftAmount,
      rightAmount, topAmount,
      bottomAmount)
  end sub

  sub crop(amount as integer)
    pict_crop(name, amount,
      amount, amount, amount)
  end sub
```

```
sub drawBox(x as integer, y
  as integer, width as integer,
  height as integer)
  pict_drawBox(name, x, y,
    width, height)
end sub
```

```
sub drawBoxFilled(x as
  integer, y as integer, width as
  integer, height as integer)
  pict_drawBoxFilled(name,
    x, y, width, height)
end sub
```

## Case Study: xPub



## Sample Book Script

```
dim book as
xPubBook
book = new xPubBook

book.useHeader(false)
book.useFooter(false)
book.useTOC(false)
```

```
parseTitle(book.getFirstMa
rkdwn)
```

```
book.addMarkdownBody
book.publish
```



# Q & A

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Xojoscript Examples:

<http://www.xdevmag.com/downloads/xdc2019.zip>

Plugin System:

<http://www.xdevmag.com/browse/7.5/7511/>

Comic Downloader:

<http://www.xdevmag.com/browse/10.1/10007/>

Transmogify:

<http://www.xdevmag.com/browse/9.1/9107/>

