



Python



Drawbot

The screenshot shows a web browser window for the URL www.drawbot.com/content/download.html. The main title is "DrawBot". Below it is a navigation bar with links: "DrawBot 3.126", "Forum", "Download", and "Index". A search bar with a "search" button is also present. On the left, there's a sidebar with links: Shapes, Colors, Canvas, Text, Images, Variables, Quick Reference, DrawBot App, Download (which is highlighted with a red oval), DrawBot Icon, Courseware, History, Credits, Previous (with a link to "DrawBot Package"), and Next (with a link to "DrawBot Icon"). The right side has links: Table of Contents, Download, Older Downloads, and License. The central content area has sections for "Older Downloads" (with "Version History" and "Very Old Version History" links) and "License" (with "The BSD License" and copyright information). A red oval highlights the "Download DrawBot" link.

www.drawbot.com/content/download.html

DrawBot

DrawBot 3.126 Forum Download Index

search

Shapes
Colors
Canvas
Text
Images
Variables
Quick Reference
DrawBot App
Download
DrawBot Icon
Courseware
History
Credits

Older Downloads

Version History
Very Old Version History

License

The BSD License

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Session 1. Shapes

2. Text

3. Images

4. Layout

5. Animation

Session 1. Shapes

2. Text

3. Images

4. Layout

5. Animation

Clocks
back!



Session 1. Shapes

2. *Text*
3. *Images*
4. *Layout*
5. *Animation*



Zine!

Recording!

slack!

Office Hours!

Readings!

fonts.google.com/specimen/Merriweather?query=mer

Google Fonts

Browse fonts Featured Articles About ■■■

Merriweather

Designed by Sorkin Type

[Download family](#)

Select styles Glyphs About License Pairings

Styles

Type here to preview text

Almost before we knew it, we had left the ground.

Size: 30px ▾

Light 300

Almost before we knew it, we had left the ground. [+ Select this style](#)

Light 300 italic

Almost before we knew it, we had left the ground. [+ Select this style](#)

Regular 400

Almost before we knew it, we had left the ground. [+ Select this style](#)

Regular 400 italic

Almost before we knew it, we had left the ground. [+ Select this style](#)

Bold 700

Almost before we knew it, we had left the ground. [+ Select this style](#)

Bold 700 italic

Almost before we knew it, we had left the ground. [+ Select this style](#)

Black 900

Almost before we knew it, we had left the ground. [+ Select this style](#)

Muts & Bolts

*How do the tools
we use manifest
themselves in
our work?*



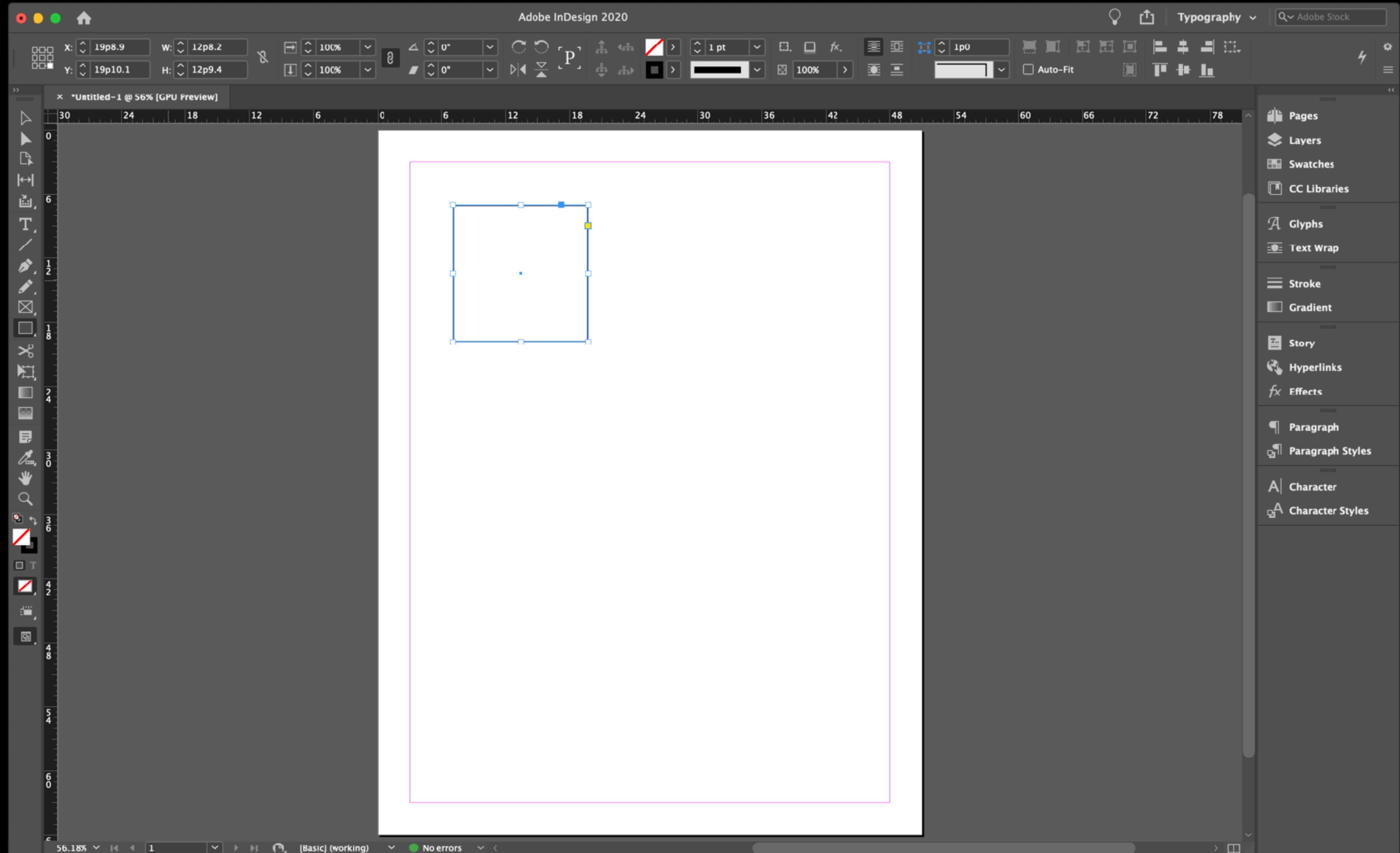


Technology
is a **stack**

CONNECTIONS



Connections, James Burke, BBC, 1978





```
28... VerticalLayoutConstraints="FlexibleDimension FixedDimension FlexibleDimension"
... GradientFillStart="0 0" GradientFillLength="0" GradientFillAngle="0" GradientStrokeStart="0 0"
... GradientStrokeLength="0" GradientStrokeAngle="0" ItemLayer="ucb" Locked="false"
... LocalDisplaySetting="Default" GradientFillHiliteLength="0" GradientFillHiliteAngle="0"
... GradientStrokeHiliteLength="0" GradientStrokeHiliteAngle="0"
... AppliedObjectStyle="ObjectStyle[1D, [Normal Graphics Frame], Transform="1 0 0 1 0 0"
... ParentInterfaceChangeCount="" TargetInterfaceChangeCount="" LastUpdatedInterfaceChangeCount="">
29    <Properties>
30        <PathGeometry>
31            <GeometryPathType PathOpen="false">
32                <PathPointArray>
33                    <PathPointType Anchor="85.2 -310.8" LeftDirection="85.2 -310.8"
... RightDirection="85.2 -310.8" />
34                    <PathPointType Anchor="85.2 -158.4" LeftDirection="85.2 -158.4"
... RightDirection="85.2 -158.4" />
35                    <PathPointType Anchor="236.40000000000003 -158.4"
... LeftDirection="236.40000000000003 -158.4" RightDirection="236.40000000000003 -158.4" />
36                    <PathPointType Anchor="236.40000000000003 -310.8"
... LeftDirection="236.40000000000003 -310.8" RightDirection="236.40000000000003 -310.8" />
37                </PathPointArray>
38            </GeometryPathType>
39        </PathGeometry>
40    </Properties>
41    <FrameFittingOption AutoFit="false" LeftCrop="0" TopCrop="0" RightCrop="0"
... BottomCrop="0" FittingOnEmptyFrame="None" FittingAlignment="CenterAnchor" />
42        <ObjectExportOption AltTextSourceType="SourceXMLStructure"
... ActualTextSourceType="SourceXMLStructure" CustomAltText="$ID/" CustomActualText="$ID/"
... ApplyTagType="TagFromStructure" ImageConversionType="JPEG" ImageExportResolution="Ppi300"
... GIFOptionsPalette="AdaptivePalette" GIFOptionsInterlaced="true" JPEGOptionsQuality="High"
... JPEGOptionsFormat="BaselineEncoding" ImageAlignment="AlignLeft" ImageSpaceBefore="0"
```

```
010101000101011  
101010101011100  
010101000101011  
101010101011100  
010101000101011  
101010101011100  
010101000101011  
101010101011100
```

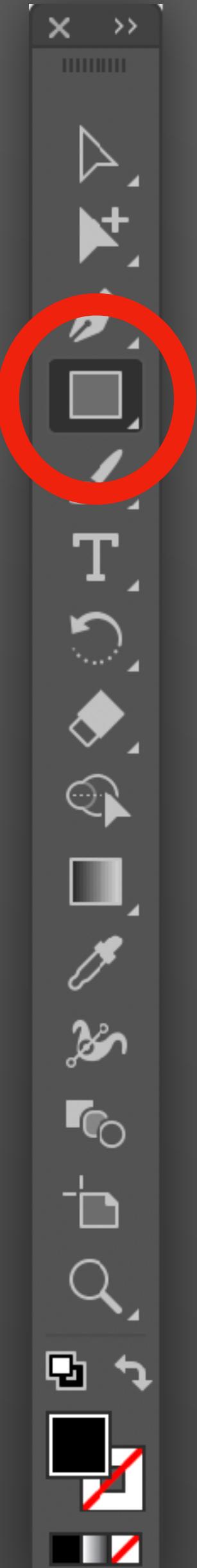


```
PathOpen="false">  
    <PathPointArray>  
        <PathPointType  
            Anchor="85.2 -310.8"  
            LeftDirection="85.2  
            -310.8"  
            RightDirection="85.2  
            -310.8" />  
        <PathPointType  
            Anchor="85.2 -158.4"  
            LeftDirection="85.2  
            -158.4"  
            RightDirection="85.2  
            -158.4" />  
        <PathPointType  
            Anchor="236.40000000  
            000003 -158.4"  
            LeftDirection="236.4  
            000000000003  
            -158.4"  
            RightDirection="236.  
            4000000000003  
            -158.4" />  
        <PathPointType  
            Anchor="236.40000000  
            000003 -310.8"  
            LeftDirection="236.4  
            000000000003  
            -310.8"  
            RightDirection="236.  
            4000000000003  
            -310.8" />  
    </PathPointArray>
```

```
rect( 85,  
      236,  
      200,  
      100)
```



our class









www.youtube.com/watch?v=0VqTwnAuHws

YouTube play inside of piano

Up next

AUTOPLAY

ThePianoGuys Schmidt original tune) - The Piano Guys
ThePianoGuys 45M views • 9 years ago 2:59

Mix - One Direction - What Makes You Beautiful (5 Piano...
YouTube 50+ ((>))

Rockelbel's Canon (Pachelbel's Canon in D) - 4 Cellos - The...
ThePianoGuys 22M views • 8 years ago 5:29

The Piano Guys - What Makes You Beautiful (Live on...
SoundStage 472K views • 4 years ago 2:56

Wintergatan - Marble Machine (music instrument using 2000...
Wintergatan 155M views • 4 years ago 4:33

#thepianoguys #pianocello

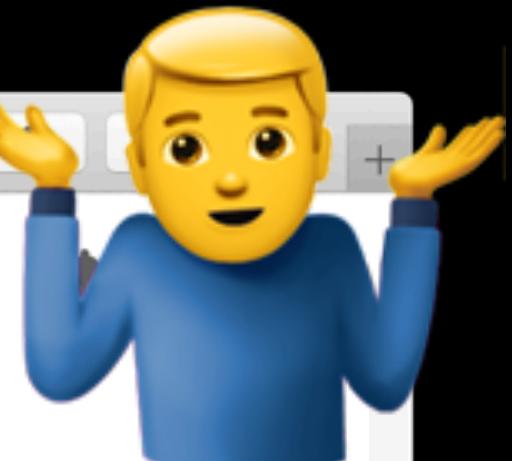
One Direction - What Makes You Beautiful (5 Piano Guys, 1 piano) - The Piano Guys

75,050,349 views • Jul 18, 2012

723K 9.4K SHARE SAVE ...

ThePianoGuys 6.82M subscribers

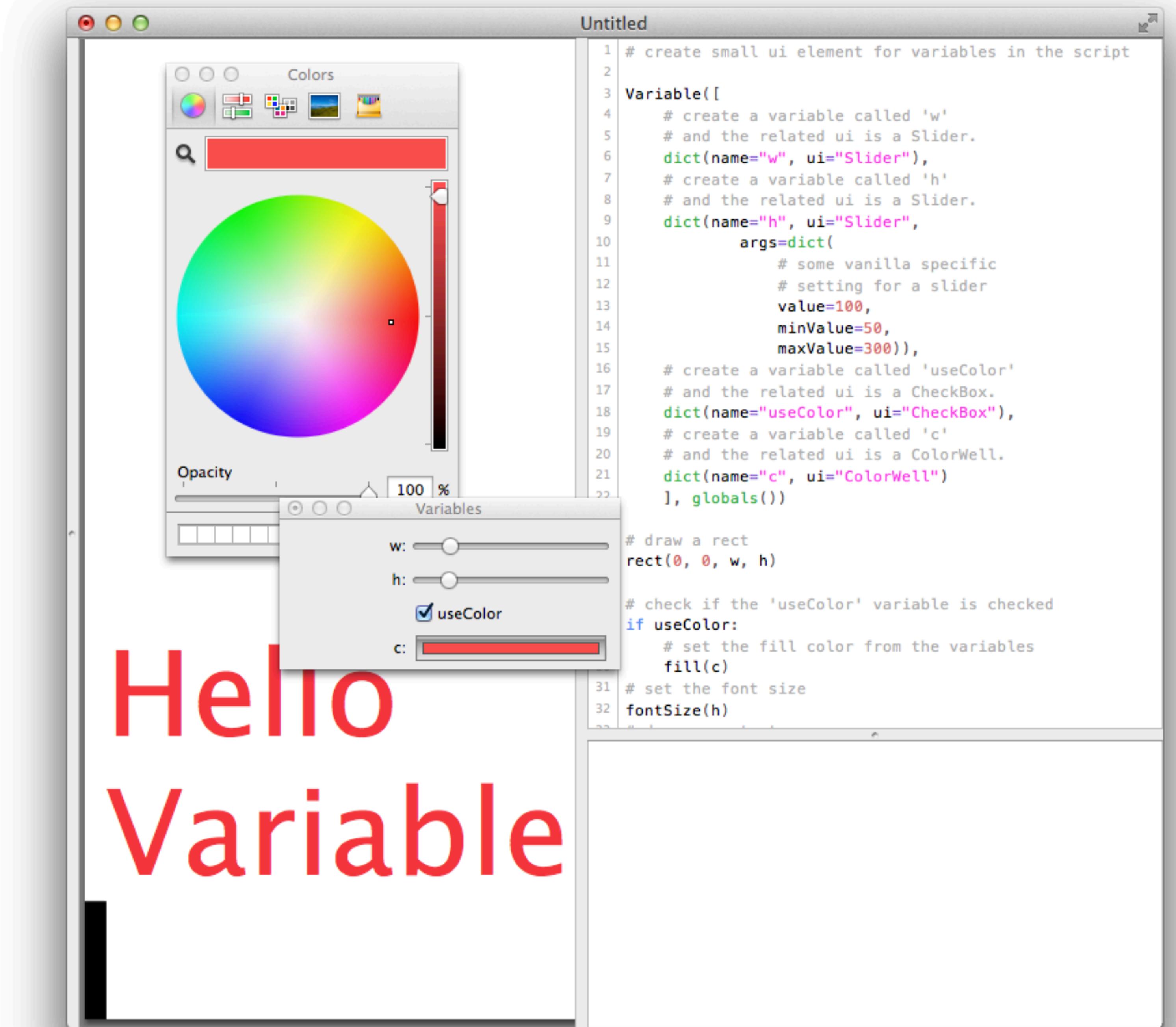
SUBSCRIBE







```
rect( 85,  
      236,  
      200,  
      100)
```





Mezerg
@mezerg_

WATERMELON 🍉 🍉
Using the [@Playtronica](#)

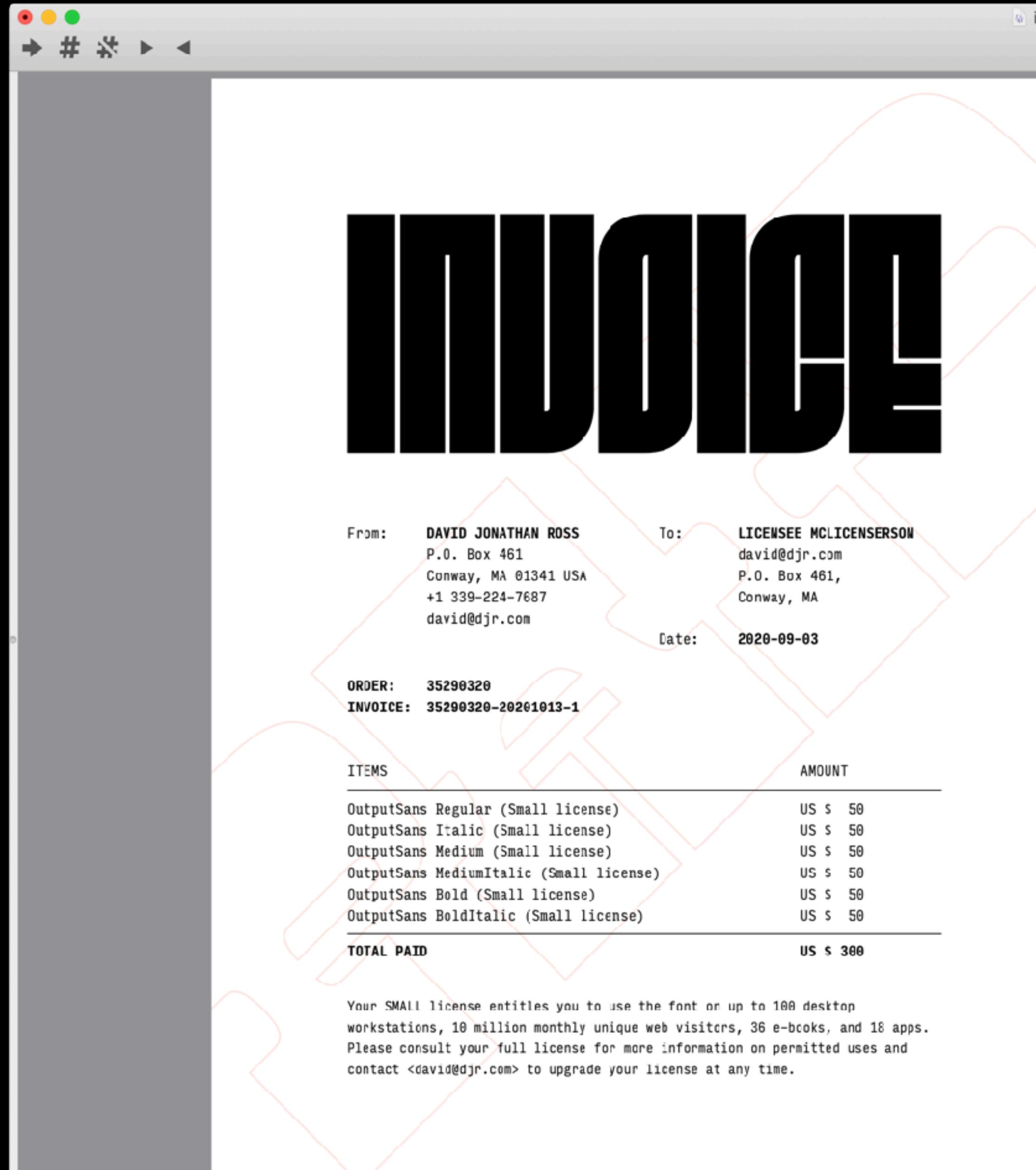


2:32 PM · Sep 2, 2020 · [Twitter for iPhone](#)



Invoices

Yours Truly



```
invoice.py
```

```
Q~ discount
```

```
    *digitDiff + price

    if price == 'None':
        productLine = ''
    productLine += '\r'
    productInfo.append(productLine,
font=textFont)

if data.get('discount'):
    productInfo.append('Discount: %s\tUS $ - %s\r' %(str(data['discount']['name']),
str(data['discount']['amount-saved'])),
font=inputFont, lineHeight=textLineHeight*2)

if paid:
    OutputSans-Regular
    OutputSans-Italic
    OutputSans-Medium
    OutputSans-MediumItalic
    OutputSans-Bold
    OutputSans-BoldItalic
```

Lowlands Festival 2018

Hansje van Halem,
Just van Rossum



**Talking with
computers**

```

40 ENOUGH TALK
41 BULLSHIT
42 GET YOUR ASS TO MARS modulo
43 DO IT NOW modulo n 5
44 GET TO THE CHOPPER divisibleBy5
45 HERE IS MY INVITATION modulo
46 YOU ARE NOT YOU YOU ARE ME 0
47 ENOUGH TALK
48 BECAUSE I'M GOING TO SAY PLEASE divisibleBy5
49 GET TO THE CHOPPER sum
50 HERE IS MY INVITATION sum
51 GET UP n
52 ENOUGH TALK
53 YOU HAVE NO RESPECT FOR LOGIC
54 YOU HAVE NO RESPECT FOR LOGIC
55 CHILL
56 TALK TO THE HAND "sum:"
57 TALK TO THE HAND sum
58 YOU HAVE BEEN TERMINATED
59
60 LISTEN TO ME VERY CAREFULLY modulo
61 I NEED YOUR CLOTHES YOUR BOOTS AND YOUR MOTORCYCLE dividend
62 I NEED YOUR CLOTHES YOUR BOOTS AND YOUR MOTORCYCLE divisor
63 GIVE THESE PEOPLE AIR
64 HEY CHRISTMAS TREE quotient
65 YOU SET US UP 0
66 HEY CHRISTMAS TREE remainder
67 YOU SET US UP 0
68 HEY CHRISTMAS TREE product
69 YOU SET US UP 0
70 GET TO THE CHOPPER quotient
71 HERE IS MY INVITATION dividend
72 HE HAD TO SPLIT divisor
73 ENOUGH TALK
74 GET TO THE CHOPPER product
75 HERE IS MY INVITATION divisor
76 YOU'RE FIRED quotient
77 ENOUGH TALK
78 GET TO THE CHOPPER remainder
79 HERE IS MY INVITATION dividend
80 GET DOWN product
81 ENOUGH TALK
82 I'LL BE BACK remainder
83 HASTA LA VISTA, BABY
84

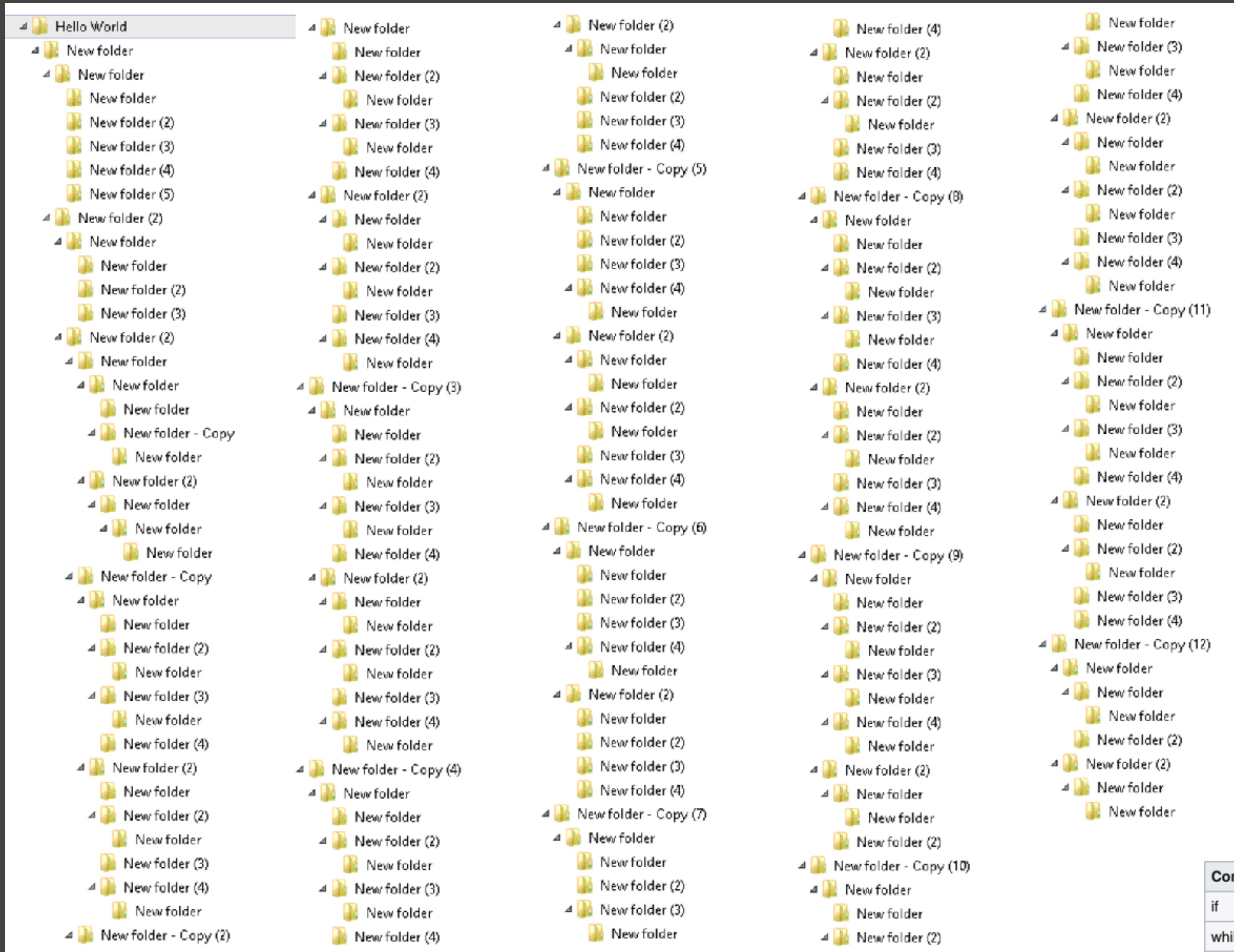
```

HAI 1.2
 CAN HAS STDIO?
 PLZ OPEN FILE "LOLCATS.TXT"?
 AWSUM THX
 VISIBLE FILE
 O NOES
 INVISIBLE "ERROR!"

KTHXBYE

HAI 1.0
 CAN HAS STDIO?
 I HAS A VAR
 IM IN YR LOOP
 UP VAR!!1
 VISIBLE VAR
 IZ VAR BIGGER THAN 10? KTHX
 IM OUTTA YR LOOP

KTHXBYE



Folders programming language, Daniel Temkin

Command	# of Folders	Details
if	0 folders	Second sub-folder holds expression, third holds list of commands
while	1 folder	Second sub-folder holds expression, third holds list of commands
declare	2 folders	Second sub-folder holds type, third holds var name (in number of folders)
let	3 folders	Second holds var name (in number of folders), third holds expression
print	4 folders	Second sub-folder holds expression
input	5 folders	Second sub-folder holds var name



The image shows a terminal window titled "Untitled 5" with the command "# * <". In the first line, the command "import this" is entered. Below it, the text of the Zen of Python by Tim Peters is displayed. The text consists of 19 numbered principles, each starting with a bolded word or phrase followed by a statement.

```
1 import this

The Zen of Python, by Tim Peters

Beautiful is better than ugly.
Explicit is better than implicit.
Simple is better than complex.
Complex is better than complicated.
Flat is better than nested.
Sparse is better than dense.
Readability counts.
Special cases aren't special enough to break the rules.
Although practicality beats purity.
Errors should never pass silently.
Unless explicitly silenced.
In the face of ambiguity, refuse the temptation to guess.
There should be one-- and preferably only one --obvious way to do it.
Although that way may not be obvious at first unless you're Dutch.
Now is better than never.
Although never is often better than *right* now.
If the implementation is hard to explain, it's a bad idea.
If the implementation is easy to explain, it may be a good idea.
Namespaces are one honking great idea -- let's do more of those!
```

Untitled 5

```
1 import this

Traceback (most recent call last):
File "<untitled>", line 1
    import this
    ^
IndentationError: unexpected indent
```

*In Python,
whitespace
matters*

**Errors are
your friend**

Untitled 5

```
1 import this

Traceback (most recent call last):
File "<untitled>", line 1
    import this
    ^
IndentationError: unexpected indent
```

*nobody gets
left behind*

Let's do this!!