

# The Secret Life of URL's

JL Popyack

# What's in a URL?

Course Website for CS 140:

<https://www.cs.drexel.edu/~jpopyack/Courses/CSP/Fa17/index.html>

**Protocol**

**Domain**

**Path**

Other information may be appended to the end of the URL, as a *message* to the page being visited:

# What's in a URL?

Course *Notes* for CS 140:

[https://www.cs.drexel.edu/~jpopyack/Courses/CSP/Fa17/notes/04.2\\_HexColorsAscii/titleslide.html?CurrentSlide=0](https://www.cs.drexel.edu/~jpopyack/Courses/CSP/Fa17/notes/04.2_HexColorsAscii/titleslide.html?CurrentSlide=0)

**Protocol**

**Domain**

**Path**

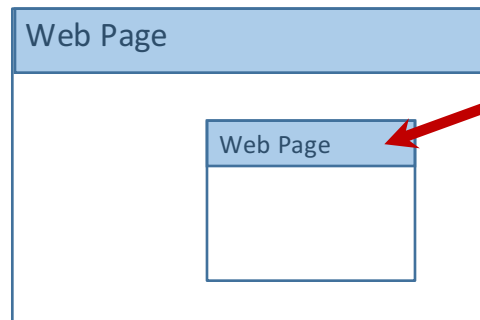
**Message**

This page contains a *script* that reads the message and processes it (in this case, to keep track of the page number, so it knows what page is next.)

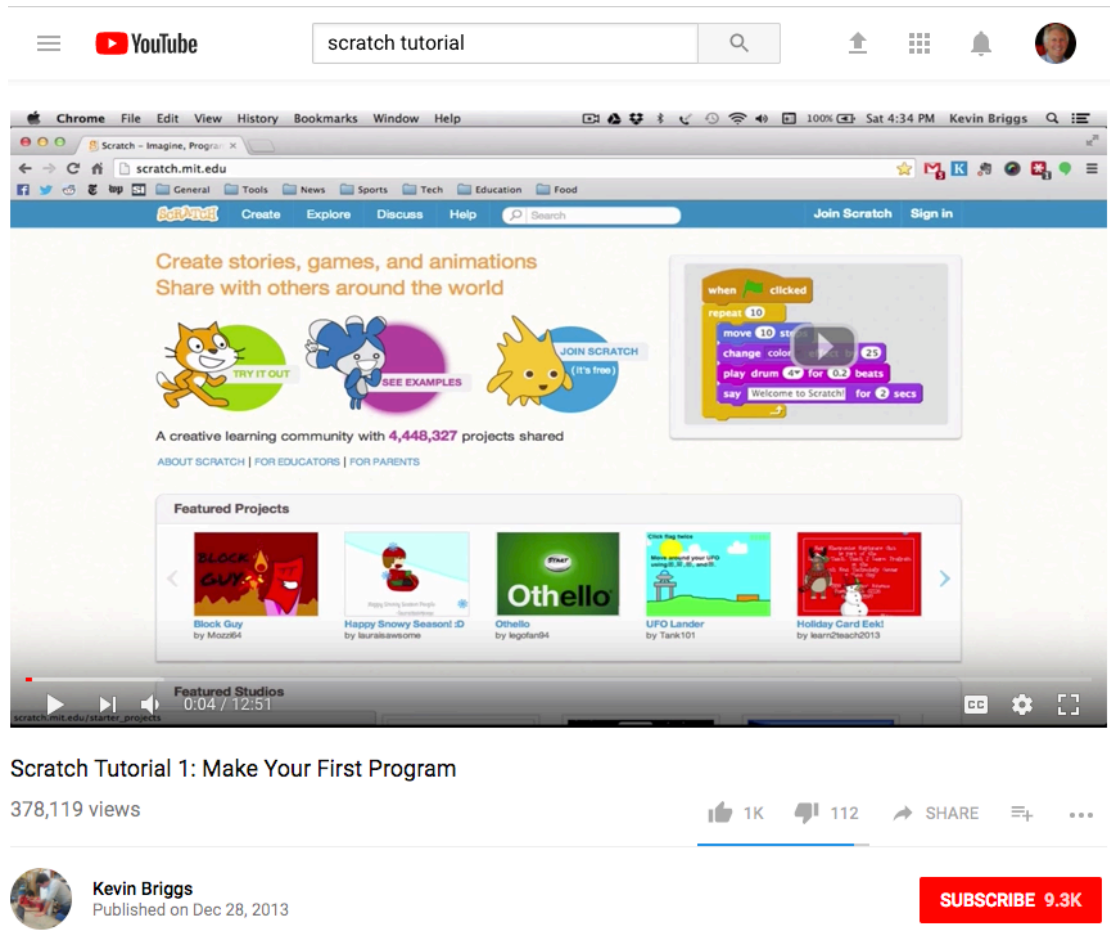
# What's an `iframe`?

`<iframe attributes></iframe>`

An `iframe` allows a web page to be *embedded* within another web page:



YouTube video  
SurveyMonkey survey  
Another web page from your site  
...

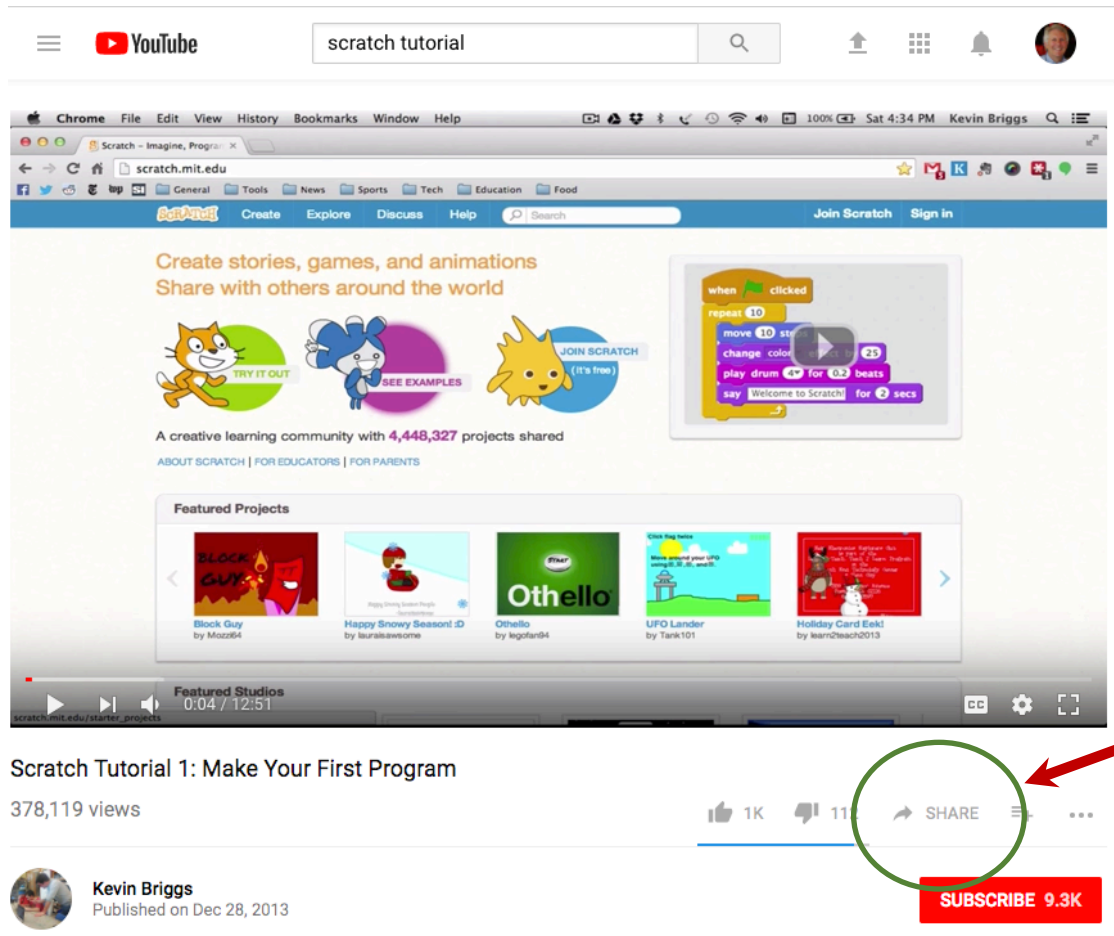


## Embedding a YouTube Video

### Scratch Tutorial 1: Make Your First Program

Kevin Briggs

<https://www.youtube.com/VlpmkeqJhmQ>



## Embedding a YouTube Video

### Scratch Tutorial 1: Make Your First Program

Kevin Briggs

<https://www.youtube.com/VlpmkeqJh mQ>

YouTube search results for "scratch tutorial". The video "Scratch Tutorial 1: Make Your First Program" by Kevin Briggs is displayed. The video player shows a Scratch project with a cat sprite and a script block. The video has 378,119 views and was published on Dec 28, 2013. A share menu is open, showing the URL <https://youtu.be/VlpmkeqJhmQ> and options to share on various social media platforms.

## Embedding a YouTube Video

### Scratch Tutorial 1: Make Your First Program

Kevin Briggs

<https://www.youtube.com/VlpmkeqJhmQ>

YouTube search results for "scratch tutorial". The video "Scratch Tutorial 1: Make Your First Program" by Kevin Briggs is displayed. The video player shows a Scratch project with a cat character and a code block that says "when clicked, repeat 10 times: move 10 steps, change color, play drum 4 beats for 0.2 seconds, say Welcome to Scratch! for 2 seconds". The video has 378,119 views and is published by Kevin Briggs on Dec 28, 2013. A share menu is open, showing the URL <https://youtu.be/VlpmkeqJhmQ> and the "EMBED" button circled in green.

## Embedding a YouTube Video

### Scratch Tutorial 1: Make Your First Program

Kevin Briggs

<https://www.youtube.com/VlpmkeqJhmQ>



YouTube search results for "scratch tutorial". The video "Scratch Tutorial 1: Make Your First Pro..." by Kevin Briggs is displayed. The video player shows a Scratch project with a cat character and a code block. The video has 378,119 views and is published by Kevin Briggs on Dec 28, 2013. A share menu is open, showing the video URL: <https://youtu.be/VlpmkeqJhmQ>. The share menu also includes options to "EMBED" and "COPY".

Scratch Tutorial 1: Make Your First Pro...

Scratch Tutorial #1

Make Scratchy

Embed Video

`<iframe width="560" height="315" src="https://www.youtube.com/embed/VlpmkeqJhmQ" frameborder="0" allowfullscreen></iframe>`

☐ Start at 0:00

EMBED OPTIONS

- ☒ Show suggested videos when the video finishes.
- ☒ Show player controls.
- ☒ Show video title and player actions.
- ☐ Enable privacy-enhanced mode. ⓘ

COPY



Embed Video

```
<iframe width="560" height="315"
src="https://www.youtube.com/embed/VIpmeqJhm
Q?showinfo=0" frameborder="0" allowfullscreen>
</iframe>
```

☐ Start at 0:00

#### EMBED OPTIONS

☒ Show suggested videos when the video finishes.

☒ Show player controls.

☐ Show video title and player actions.

☐ Enable privacy-enhanced mode. ⓘ

COPY

EMBED  
OPTIONS  
produce  
variations in  
EMBED CODE



Embed Video

```
<iframe width="560" height="315"
src="https://www.youtube.com/embed/VIpmeqJhm
Q" frameborder="0" allowfullscreen></iframe>
```

☐ Start at 0:00

#### EMBED OPTIONS

☒ Show suggested videos when the video finishes.

☒ Show player controls.

☒ Show video title and player actions.

☐ Enable privacy-enhanced mode. ⓘ

COPY

## Your Web Page with Embedded Video:

```
<html>
...
<body>
  <p>Here's a great Scratch tutorial:</p>

  <iframe width="560" height="315"
    src="https://www.youtube.com/embed/VIpmkeqJhmQ"
    frameborder="0" allowfullscreen></iframe>

</body>
</html>
```

# Your Web Page with Embedded Video:

## **Showing Title, etc.:**

```
<iframe width="560" height="315"  
src="https://www.youtube.com/embed/VIpmeqJhmQ"  
frameborder="0" allowfullscreen></iframe>
```

## **Without Showing Title, etc.:**

```
<iframe width="560" height="315"  
src="https://www.youtube.com/embed/VIpmeqJhmQ?showinfo=0"  
frameborder="0" allowfullscreen></iframe>
```

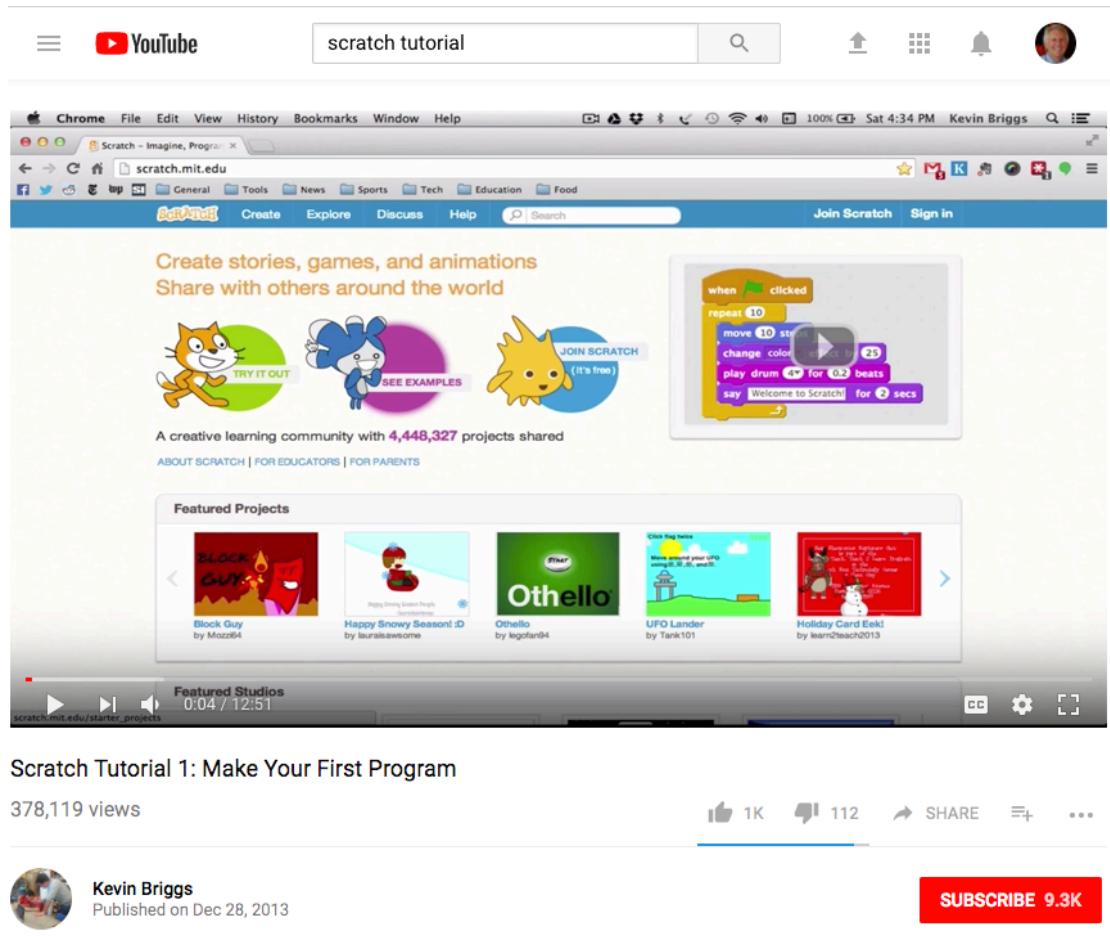
# Embedding a YouTube Playlist

[https://www.youtube.com/embed?listType=playlist&list=PLAYLIST\\_ID](https://www.youtube.com/embed?listType=playlist&list=PLAYLIST_ID)

## **PLAYLIST\_ID**

- Can be a list defined by another user
- Can be a search query

[https://developers.google.com/youtube/player\\_parameters](https://developers.google.com/youtube/player_parameters)

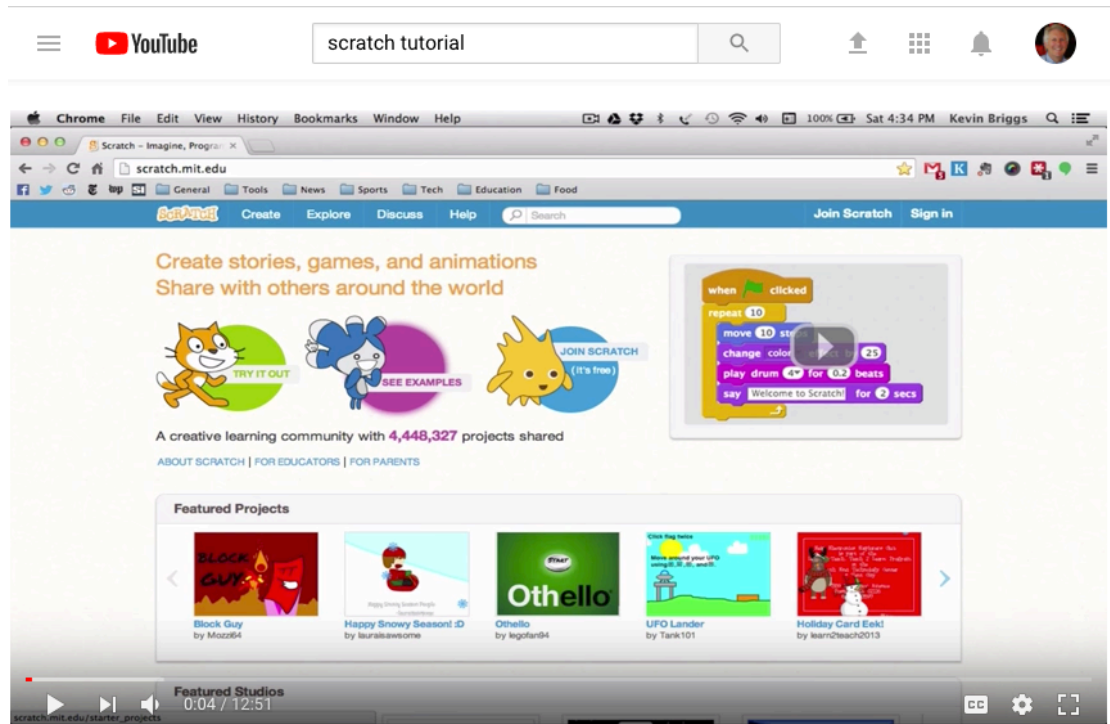


## Embedding a List of Videos

### Scratch Tutorial 1: Make Your First Program

Kevin Briggs

<https://www.youtube.com/VlpmkeqJhmQ>



## Embedding a List of Videos

### Scratch Tutorial 1: Make Your First Program

Kevin Briggs

<https://www.youtube.com/VlpmkeqJh mQ>



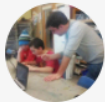
YouTube

scratch tutorial



# mrteacherkevin

mrteacherkevin.com



Kevin Briggs

9,335 subscribers

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Scratch

PLAY ALL



Scratch Tutorial 1: Make Your First Program

Kevin Briggs  
378K views • 3 years ago



Scratch Tutorial 2: Make a Basic Game

Kevin Briggs  
273K views • 3 years ago



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<https://www.youtube.com/watch?v=VlpmkeqJhmQ&list=PLf-1sIG-65GFyMYAJitHLUPkx7NizU4M4>

Playlist ID: **list=PLf-1sIG-65GFyMYAJitHLUPkx7NizU4M4**



```
<iframe width="560" height="315"  
src="https://www.youtube.com/embed/VIpmkeqJhmQ?list=PLf-1sIG-  
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allowfullscreen></iframe>
```

```
<iframe  
  width="560"  
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1sIG-65GFyMYAJitHLUPkx7NizU4M4"  
  frameborder="0"  
  allowfullscreen  
>  
</iframe>
```

Attributes of <iframe>

Message sent to YouTube

## Other Parameters

start=start\_time (in seconds)

### **PLAYLIST\_ID**

- Can be a list defined by another user
- Can be a search query

[https://developers.google.com/youtube/player\\_parameters](https://developers.google.com/youtube/player_parameters)

<iframe

width="560"

height="315"

src="https://www.youtube.com/embed/fcjR93Jin4Y?start=59&end=84"

frameborder="0"

allowfullscreen>

</iframe>

<https://www.youtube.com/embed/fcjR93Jin4Y?start=59&end=84>

Send messages to YouTube:

Message separator:

Start and Stop Time for video playback (in seconds, from beginning of video):  
Start at 59 seconds,  
End at 1 minute, 24 seconds (84 seconds)

Jeffrey Home


Get Started

Trending

- Donald Trump  
Trump upbeat on bipartisan U.S. healthcare fix - reuters.com
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WHAT???

# URL Attached to That Article

Everything beyond  
this point is a  
message to Facebook

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[u=https%3A%2F%2Fwww.kimmelcenter.org%2Fevents-and-tickets%2F201718%2Fbroadway-philadelphia%2Fthe-phantom-of-the-opera%2F&](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.kimmelcenter.org%2Fevents-and-tickets%2F201718%2Fbroadway-philadelphia%2Fthe-phantom-of-the-opera%2F&h=ATO7nnj7rgk1vAESn-Lc2NdbT9DxNjhOgTHDhcR5uWBp_PvgaGTMm4djCbEDGNHOx58ghTdChnyQ3xUhdsUImrR65SCY_PALA_HDLQsws9fKUBcGBvgWq2uXKUZCACzb5iSFzqYf-H_LMLb2&enc=AZMOjdInmVcrY7uMrATbKykT4XDdzc-ELBPxSxrQzvMknFyOg9NICUx86z_M_6ckiZsoJ84wp8LmMmRnG4ghTMfj8NFY7iv23fi9dC7nQWseXkvHwbRSjfjxmAMzu7Z2YGENAHgrm-wJyWXxSV5h7U5rHWgYfceiBBo0cOYuUJhHha3UTaoqTv4aUIZAdg7zTOat94-RGn6uqPWBXzFAWJOD&s=1&sig=71739)

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WHAT???

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- `u=https%3A%2F%2Fwww.kimmelcenter.org%2Fevents-and-tickets%2F201718%2Fbroadway-philadelphia%2Fthe-phantom-of-the-opera%2F`
- `%3A = ?`
- `%2F = ?`
- These are hexadecimal codes!

BASE 16	0	1	2	...	A	B	C	D	E	F
BASE 10	0	1	2	...	10	11	12	13	14	15

## Hexadecimal Equivalents

	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	A	B	C	D	E	F	10	11	12	13
2	14	15	16	17	18	19	1A	1B	1C	1D
3	1E	1F	20	21	22	23	24	25	26	27
4	28	29	2A	2B	2C	2D	2E	2F	30	31
5	32	33	34	35	36	37	38	39	3A	3B
6	3C	3D	3E	3F	40	41	42	43	44	45
7	46	47	48	49	4A	4B	4C	4D	4E	4F

%3A = ?

%2F = ?



## ASCII Code Equivalents

	0	1	2	3	4	5	6	7	8	9
0	0 NUL	1 SOH	2 STX	3 ETX	4 EOT	5 ENQ	6 ACK	7 BEL	8 BS	9 HT
1	10 NL	11 VT	12 NP	13 CR	14 SO	15 SI	16 DLE	17 DC1	18 DC2	19 DC3
2	20 DC4	21 NAK	22 SYN	23 ETB	24 CAN	25 EM	26 SUB	27 ESC	28 FS	29 GS
3	30 RS	31 US	32	33 !	34 "	35 #	36 \$	37 %	38 &	39 '
4	40 (	41 )	42 *	43 +	44 ,	45 -	46 .	47 /	48 0	49 1
5	50 2	51 3	52 4	53 5	54 6	55 7	56 8	57 9	58 :	59 ;
6	60 <	61 =	62 >	63 ?	64 @	65 A	66 B	67 C	68 D	69 E
7	70 F	71 G	72 H	73 I	74 J	75 K	76 L	77 M	78 N	79 O
8	80 P	81 Q	82 R	83 S	84 T	85 U	86 V	87 W	88 X	89 Y

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Everything beyond  
this point is a  
message to Facebook

[https://l.facebook.com/l.php?](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.kimmelcenter.org%2Fevents-and-tickets%2F201718%2Fbroadway-philadelphia%2Fthe-phantom-of-the-opera%2F&h=ATO7nnj7rgk1vAESn-Lc2NdbT9DxNjhOgTHDhcR5uWBp_PvgaGTMm4djCbEDGNHOx58ghTdChnyQ3xUhdsUImrR65SCY_PALA_HDLQsws9fKUBcGBvgWq2uXKUZCACzb5iSFzqYf-H_LMLb2&enc=AZMOjdInmVcrY7uMrATbKykT4XDdzc-ELBPxSxrQzvMknFyOg9NICUx86z_M_6ckiZsoJ84wp8LmMmRnG4ghTMfj8NFY7iv23fi9dC7nQWseXkvHwbRSjfjxmAMzu7Z2YGENAHgrm-wJyWXxSV5h7U5rHWgYfceiBBo0cOYuUJhHha3UTaoqTv4aUIZAdg7zTOat94-RGn6uqPWBXzFAWJOD&s=1&sig=71739)

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# Thought For the Day

- Is somebody actually making money on this?
- How?

## Thought For the Day

- Is somebody actually making money on this?
- How?

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the product is  
YOU.”**

