## Hangman, er, Hangperson, er, Nonviolent progressive word game

1. Programmers often think about variables first. "What variables do I need to keep track of the state of this game?" This project uses six normal variables, and two lists. Lists are really just a kind of variable that can hold a list of values in one variable.

Scripts	Backdrops	Sounds
Motion Looks Sound Pen Data	Even Cont Sens Oper More	ts rol sing rators Blocks
Make a V. Count Make a V. messa misse misse misse misse misse misse misse misse misse misse misse misse misse misse misse misse misse misse misse	ariable er age s uuesses t word	
set miss change r show var hide vari Make a L v guess v secret	es to 0 nisses by 1 riable misses able misses able to the text of text	

2. The stage.

Here is a picture that shows the stage, which has one simple backdrop. You can also see that there are three sprites. You can also see how I've laid out the display of the variables, so you can see what values they contain, but can still play the game.



3. The "letters" sprite already has all of its costumes (I did this for you because it is a timeconsuming and not very interesting task). But you need to add the script:

	when I receive stamp letter	
when clicked	average contains latter counter of carret word, then x: -100	
hide	guesseu contains letter counter of secret word, then	
set size to 50 %	switch costume to letter counter of secret word	
	go to x: -250 + counter * 50 y: -70 and a state stat	
	stamp	

4. For the "underline" sprite, draw a little bar. Here is its script:



5. For the "person" sprite, make 8 costumes. Start by making costume "8", which is the full person. Then use the "duplicate" (right-click") costume function to make 7 copies, each time removing one more piece, until you get down to nothing for costume "1". Make sure the sprites are named "1" through "8". (Remember you don't have to make a person. You can make some other picture that "builds up" or "falls apart".)



Here is the very simple script for the "person" sprite.



6. Now let's go back to the Stage and add its script. The Stage has most of the script for this game.

First, here is the code that starts the game by

- Initializing the variables
- Clearing the drawing on the screen
- Setting the person to its hidden costume
- Asking for the secret work
- Doing a "forever" loop to let the player guess until the game is either won or lost

when 🏓 clicked	-				
set secret word 💌 t	•				
delete all of gue	ssed 🔻	<b>]</b> . *			
delete all of sec	ret lett	ers 🔻	1		
set num guesses 🔻	to 0				
set misses 🔹 to 🛛	]				
set won to false					
set message 💌 to					
clear in the second					
broadcast set perso	on costi	ıme	-		
ask What is the secr	et word	?а	nd	wai	t
set secret word 🔻 t	io ani	wer			
Save Letters					
Draw Letters					
forever					
Do A Guess					

Next we use the **More Blocks** category to create the "Save Letters" and "Draw Letters" functions:

Save letters puts each letter of the secret word into the "secret letters" list. We need the letters in a list for the "Count Misses" function we'll write soon.

define Save	Letters												
set counter •	to 1												
annant until d	Counton	~ (			. (						ч.		
repeat until	counter	- \	ieng	jth	of	se	re	e w	ord	Y			
add letter	counter	) of (	sea	ret	wo	see rd	to	5	ord ecre	<b>//</b> et let	tter	5 🔻	Ì
add letter	counter	) of 1	se	jth cret	wo	rd	to	5	ecre	ויייייייייייייייייייייייייייייייייי	tter	5 🖤	

Draw letters tells the "letters" and "underline" sprites to stamp out each letter of the secret word. (Except the "letters" sprite only shows letters that have been guessed.)



Next we write the long "Do A Guess" function. Don't be scared of how long this function is. Read it section by section to see what each section does, and then see if you can understand each line:

define Do A Guess	
ask What is your guess and wait	
set message v to	
if not length of answer = 1 then	•
set message x to Vou must enter one letter	did they guess the
Set message to roumust enter one retter:	wrong number of letters?
stop this script -	
if guessed contains answer then	- <b>-</b>
set message x to You already guessed that silly!	did they guess
Set message to rou aneady guessed that siny:	a repeat?
stop this script •	
clear	
add answer to guessed -	
Draw Letters	
Chark For Win	
if won = true then	
set message to You won!	
stop an	
Count Misses	
broadcast set person costume	•
if misses = 7 then	since they didn't win,
Cast Francisco de Mandanti	based on the new
Set message to you lost!	number of guesses
stop all 👻 see a see a see a see a see a	

And finally we add the two remaining functions.

"Check For Win" sees if the player has won by seeing if there are in letters in the secret word that have not been guessed. (If there are any, the player has not won.)

lefine Check For Win														
	- L													
et won 🔨 to true														
et counter to 1														
epeat until 📢 counter	>	leng	jth	of 🌔	secr	et w	ord							
if not guessed	_ co	ntain	s	lette	r (c	oun	ter	of	sec	ret	wor		1	the
set won to fals	e													
set won to fals	e								1					
set won to fals	e	· · · ·										-		•
set won v to fals														
set won to fals stop this script change counter by	e													

"Count Misses" is used both for knowing which costume of the "person" sprite to show, and for checking if the player has lost.

		F - 1														
define Count	Misses															
et misses 🔻	to 0															
et counter 💌	to 1															
	1															
epeat until 📢	counter	) > (	len	gth	of	gu	esse	ed )								
								_								
			_									_				
if not	secret let	ters	со	nta	ins	ite	m (	cou	inte	-	of	gu	esse	ed 🔻	the	en
if not	secret let	ters	co	nta	ins	ite	m (	cou	inte	-	of	gu	esse	ed 🔻	the	en
if not	secret let	ters	<b>c</b> o	nta	ins	ite	m (	cou	inte	•	of	gu	esse	ed 👻	the	en
if not change	secret let misses 🔹	ters by (1	- co	nta	nins	ite	m (	cou	inte		of	gu	esse	ed 💌	the	en
if not change	secret let	ters by (1		nta	iins	ite	m (	COL	inte	<b>.</b>	of	gu	esse	ed -	the	2n
if not change	secret let	ters by (1		nta	ins	ite	m (	cou	inte	<b>:</b> ۲)	of	gu	esse	ed v	the	20
if not change change cou	secret let misses • unter • by	ters		nta	nins	(ite	m (	COU	inte	<b>.</b> ,	of	gu	esse	ed v	the	en

Now you should actually be able to click the green flag to play the game. Remember that if it doesn't work there are various debugging techniques to find out what's wrong. Ask for help!