Make it easy with valuable commands in Stata: **dtable and collect**

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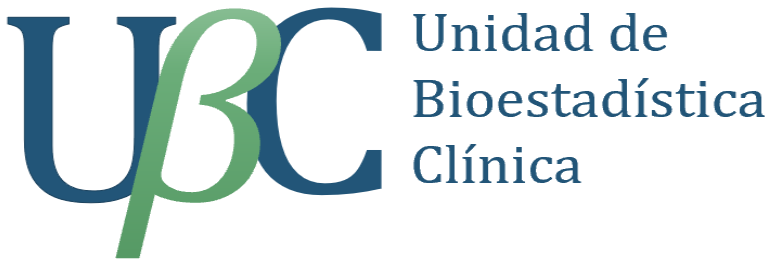
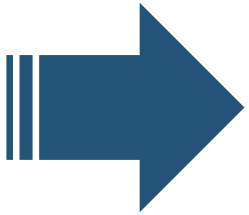
La UBC actúa como **U**nidad **C**entral de **A**poyo (UCA)

- Soporte en la **realización** y **análisis estadístico** de los estudios

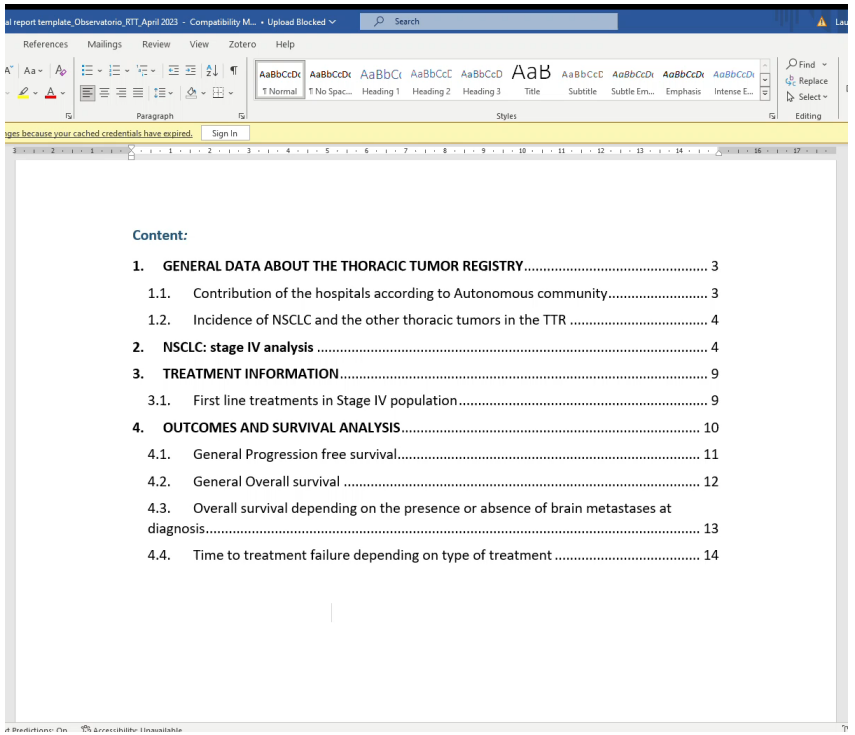




La UBC actúa como **U**nidad **C**entral de **A**poyo (UCA)

- Soporte en la **realización** y **análisis estadístico** de los estudios
- Supone habitualmente desarrollar informes de resultados

UBC Unidad de Bioestadística Clínica



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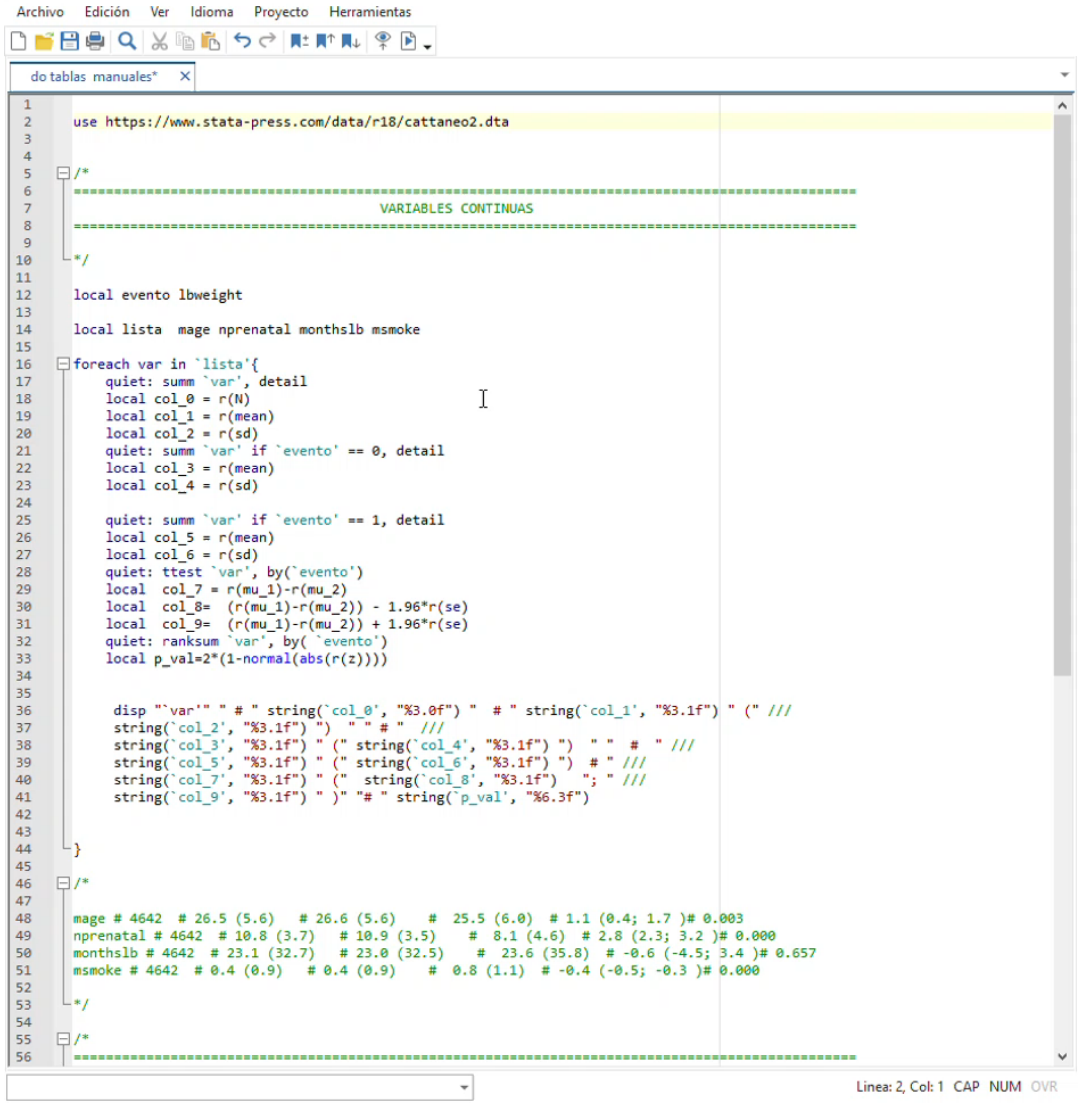
Empezamos con tablas creadas de forma manual…



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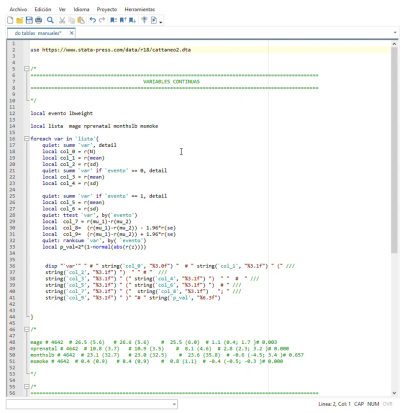
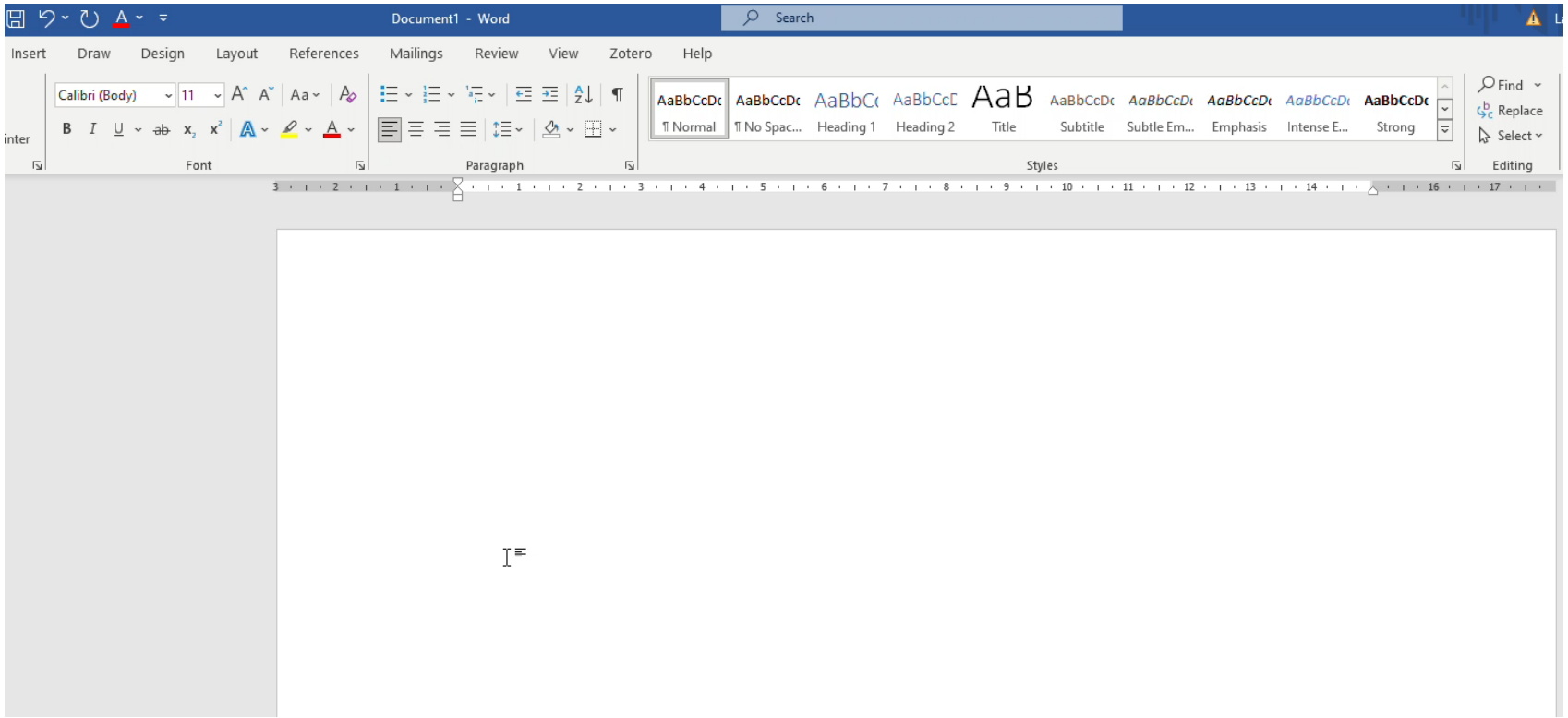


```
mage # 4642  # 26.5 (5.6)   # 26.6 (5.6)    #  25.5 (6.0)  # 1.1 (0.4; 1.7 )# 0.003
nprenatal # 4642  # 10.8 (3.7)   # 10.9 (3.5)    #  8.1 (4.6)  # 2.8 (2.3; 3.2 )# 0.000
months1b # 4642  # 23.1 (32.7)   # 23.0 (32.5)    #  23.6 (35.8)  # -0.6 (-4.5; 3.4 )# 0.657
msmoke # 4642  # 0.4 (0.9)   # 0.4 (0.9)    #  0.8 (1.1)  # -0.4 (-0.5; -0.3 )# 0.000
```



baselinetable y *table1_mc* parecían la salvación…

```
/*
================================================================================
                                    TABLE1_MC
================================================================================
*/

cd "C:\Users\Usuario\Dropbox\Consultas en curso\Tesis"

table1_mc , by(lbweight) vars(mage  contn\ mrace cat\ deadkids cat\  monthslb contn\ mbsmoke  cat\ monthslb conts) percformat(%9.2f) format(%9.2f) pdp(3) total(before) saving(table_mc, replace)
```

		Total	No	Yes	p-value
		N=4,642	N=4,362	N=280	
Mother's age		26.50 (5.62)	26.57 (5.59)	25.51 (5.99)	0.002
Mother is white	No	740 (15.94%)	640 (14.67%)	100 (35.71%)	<0.001
	Yes	3,902 (84.06%)	3,722 (85.33%)	180 (64.29%)	
Previous births where newborn died	No	3,438 (74.06%)	3,240 (74.28%)	198 (70.71%)	0.19
	Yes	1,204 (25.94%)	1,122 (25.72%)	82 (29.29%)	
Months since last birth		23.07 (32.67)	23.04 (32.46)	23.64 (35.83)	0.77
Mother smoked	Nonsmoker	3,778 (81.39%)	3,593 (82.37%)	185 (66.07%)	<0.001
	Smoker	864 (18.61%)	769 (17.63%)	95 (33.93%)	
Months since last birth		13.00 (0.00-35.00)	13.00 (0.00-35.00)	11.00 (0.00-32.50)	0.66

baselinetable y *table1_mc* parecían la salvación…

```
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==========================================================================================
                                    TABLE1_MC
==========================================================================================

*/

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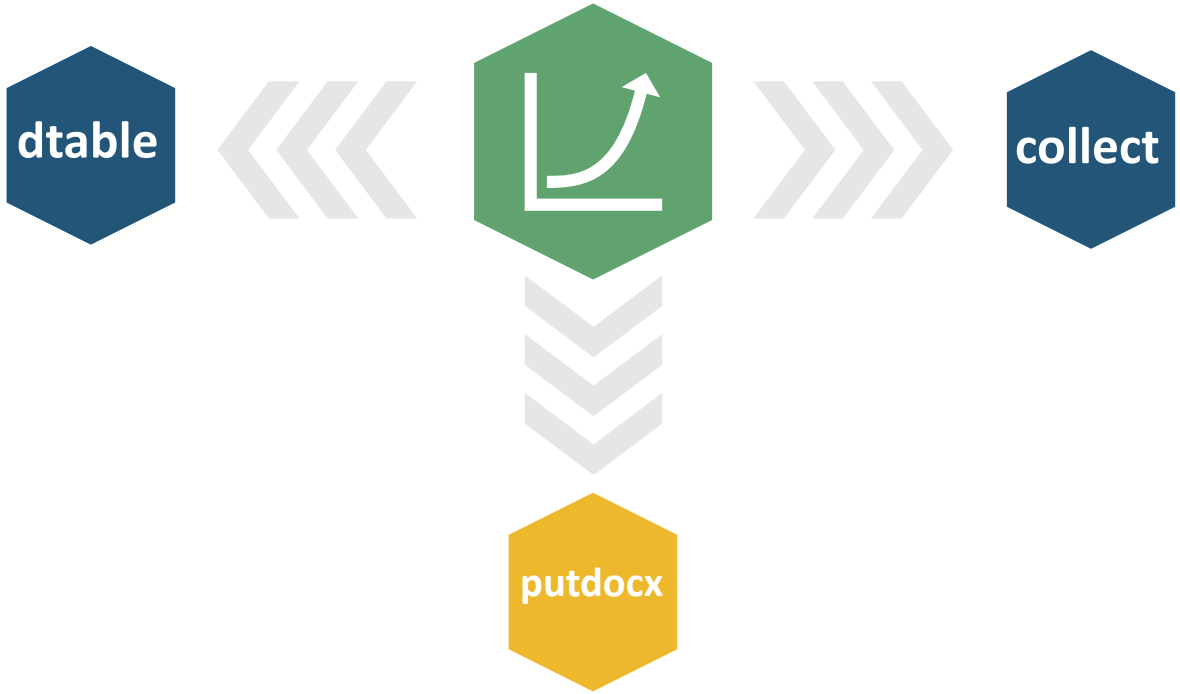
```

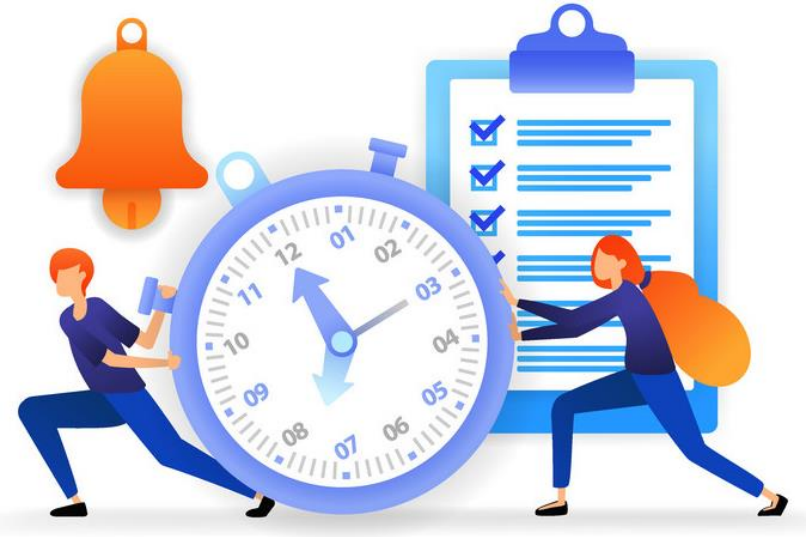
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Total	0	1	p-value	Total	0	1	Total	0	1	Total	Total	0	0	1	1
2			N=4,642	N=4,362	N=280		4,642	4,362	280	0	0	0						
3	Mother's a		26.50 (5.6	26.57 (5.5	25.51 (5.9	0.002	4,642	4,362	280	0	0	0	26.50	(5.62)	26.57	(5.59)	25.51	(5.99)
4	1 if mothe	0	740 (15.94	640 (14.67	100 (35.71	<0.001	4,642	4,362	280	0	0	0	740	(15.94%)	640	(14.67%)	100	(35.71%)
5		1	3,902 (84.(	3,722 (85.:	180 (64.29								3,902	(84.06%)	3,722	(85.33%)	180	(64.29%)
6	Previous b	0	3,438 (74.(	3,240 (74.:	198 (70.71	0.19	4,642	4,362	280	0	0	0	3,438	(74.06%)	3,240	(74.28%)	198	(70.71%)
7		1	1,204 (25.9	1,122 (25.:	82 (29.29%								1,204	(25.94%)	1,122	(25.72%)	82	(29.29%)
8	Months si		23.07 (32.(	23.04 (32.4	23.64 (35.8	0.77	4,642	4,362	280	0	0	0	23.07	(32.67)	23.04	(32.46)	23.64	(35.83)
9	1 if mothe	Nonsmok	3,778 (81.:	3,593 (82.:	185 (66.07	<0.001	4,642	4,362	280	0	0	0	3,778	(81.39%)	3,593	(82.37%)	185	(66.07%)
10		Smoker	864 (18.61	769 (17.63	95 (33.93%								864	(18.61%)	769	(17.63%)	95	(33.93%)
11	Months si		13.00 (0.0(	13.00 (0.0(	11.00 (0.0(	0.66	4,642	4,362	280	0	0	0	13.00	(0.00-35.0	13.00	(0.00-35.0	11.00	(0.00-32.50)
12																		
13																		

En ambos casos teníamos inconvenientes:

- Poca capacidad de unificar o modificar los apartados de la tabla
- La edición de formato tiene que hacerse directamente en otros programas (Word, Excel)
- **Ladrones del tiempo**: informes con un gran número de tablas y figura, problemas de capacidad de programas externos, corrección de formato, etc.

Pero hemos detectado una forma de **optimización:**





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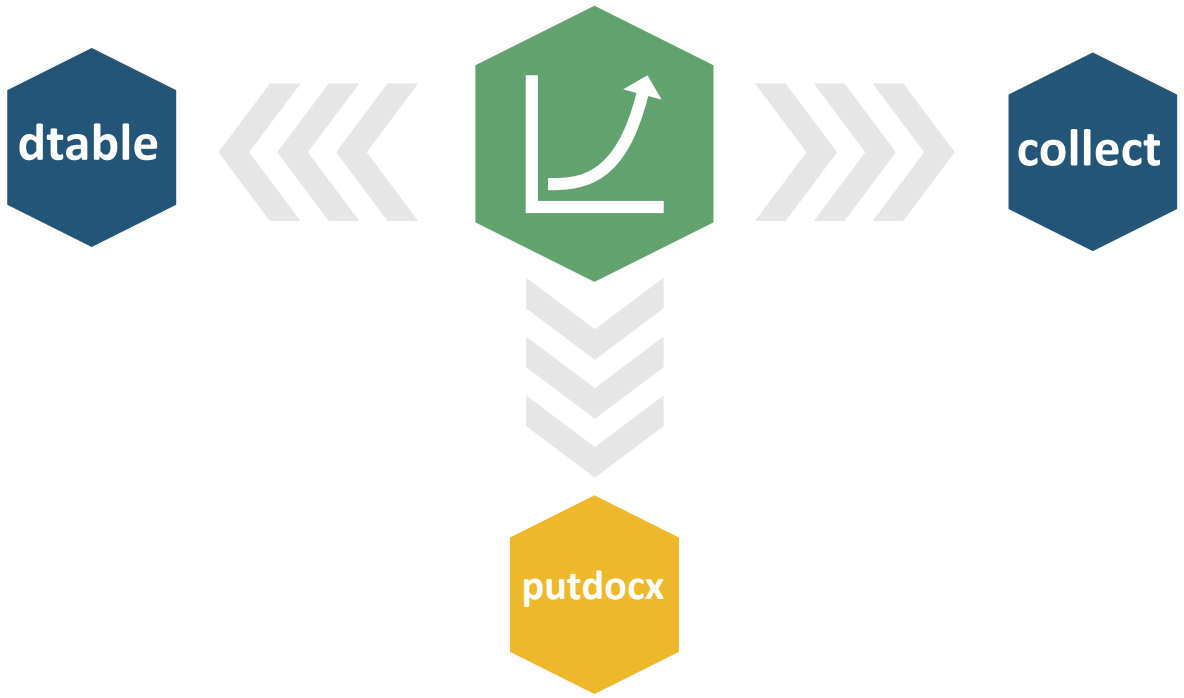

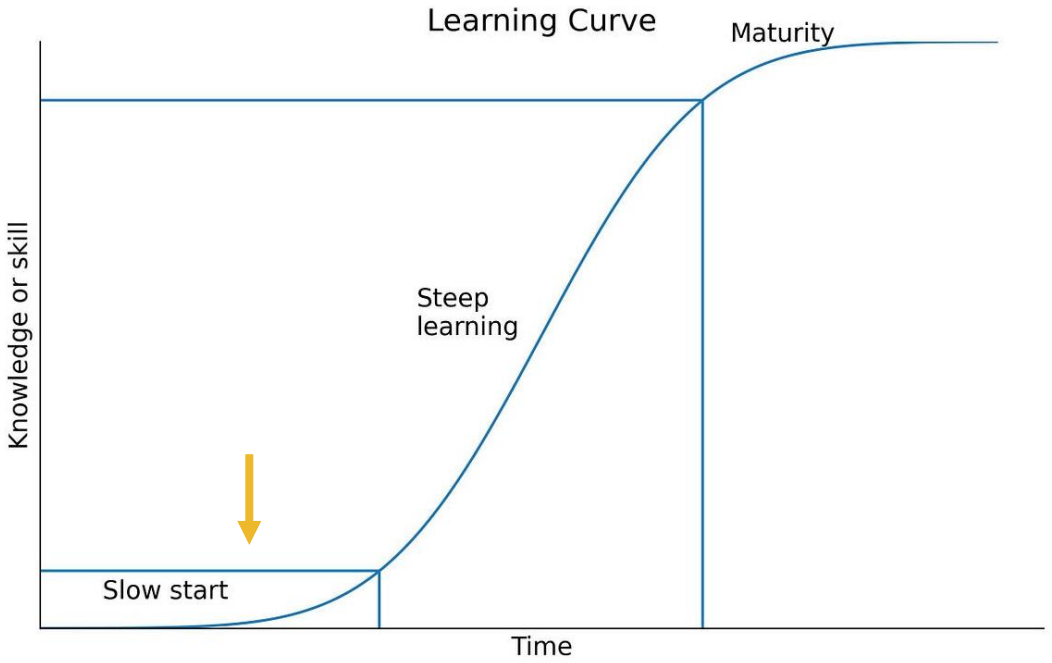

Hemos usado ***dtable*** como nuestro punto de partida

```
dtable, by(lbweight, tests testnotes nototal) sample(, statistic(frequency proportion)) ///
 continuous(mage monthslb, statistics(mean sd) test(regress)) ///
 continuous(monthslb, statistics(q2 q1 q3) test(kwallis)) ///
 factor(mrace deadkids mbsmoke prenatal, statistics(fvfrequency fvpercent))
```

	Low birthweight baby		
	No	Yes	Test
N	4,362 0.940	280 0.060	
Mother's age	26.568 (5.589)	25.514 (5.988)	0.002
Months since last birth	13.000 0.000 35.000	11.000 0.000 32.500	0.677
Mother is white			
No	640 (14.7%)	100 (35.7%)	<0.001
Yes	3,722 (85.3%)	180 (64.3%)	
Previous births where newborn died			
No	3,240 (74.3%)	198 (70.7%)	0.187
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Trimester of first prenatal care visit			
0	46 (1.1%)	24 (8.6%)	<0.001
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Y usamos ***collect*** para crear nuestra imagen de marca

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 factor(mrace deadkids mbsmoke prenatal, statistics(fvfrequency fvpercent)) ///
 export(myfile.docx, replace)
```

```
collect style cell border_block[column-header corner row-header item], ///
border(top bottom, width(1) pattern(double) color(35 85 120))
collect export "myfile.docx", replace
```

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collect style cell result, font(Arial, size(10) color(35 85 120)) halign(center)
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collect style cell cell_type[column-header corner], font(Arial, size(10) color(white) bold) ///
shading(foreground(85 150 100))
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```

```
collect style cell border_block[column-header corner row-header item], ///
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dtable, by(lbweight, tests testnotes nototal)sample(, statistic(frequency proportion) place(inlabels)) ///
 define(iqi = q1 q3, delimiter("; ")) ///
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0	46 (1.1%)	24 (8.6%)	<0.001
1	3,519 (80.7%)	201 (71.8%)	
2	651 (14.9%)	46 (16.4%)	
3	146 (3.3%)	9 (3.2%)	

Y usamos ***collect*** para crear nuestra imagen de marca

```
collect style cell border_block[column-header corner row-header item], ///
border(top bottom, width(1) pattern(double) color(35 85 120))
collect style cell result, font(Arial, size(10) color(35 85 120)) halign(center)
collect style cell cell_type[column-header corner], font(Arial, size(10) color(white) bold) ///
shading(foreground(85 150 100))
collect style cell cell_type[row-header], shading(foreground(215 235 215)) font(Arial, size(10))
collect style cell result[regress kwallis pearson], minimum(0.001) nformat(%6.3f)
collect export "myfile.docx", replace
```

	Low birthweight baby		
	No n=4,362	Yes n=280	Test
Mother's age	26.6 (5.6)	25.5 (6.0)	0.002
Months since last birth	13.0 [0.0; 35.0]	11.0 [0.0; 32.5]	0.677
Mother is white			
No	640 (14.7%)	100 (35.7%)	<0.001
Yes	3,722 (85.3%)	180 (64.3%)	
Previous births where newborn died			
No	3,240 (74.3%)	198 (70.7%)	0.187
Yes	1,122 (25.7%)	82 (29.3%)	
Mother smoked			
Nonsmoker	3,593 (82.4%)	185 (66.1%)	<0.001
Smoker	769 (17.6%)	95 (33.9%)	
Trimester of first prenatal care visit			
0	46 (1.1%)	24 (8.6%)	<0.001
1	3,519 (80.7%)	201 (71.8%)	
2	651 (14.9%)	46 (16.4%)	
3	146 (3.3%)	9 (3.2%)	

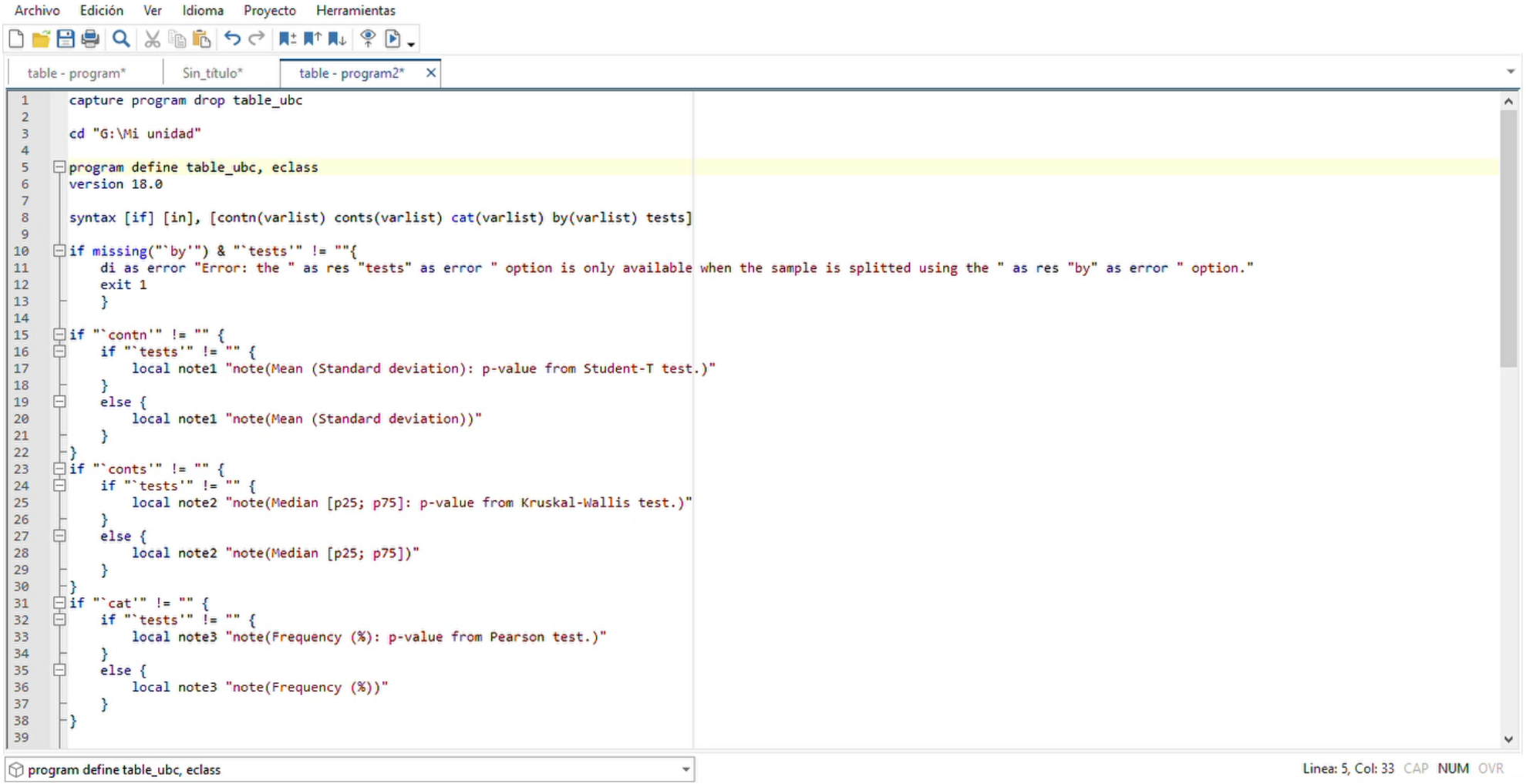
Y usamos ***collect*** para crear nuestra imagen de marca

```
collect style cell border_block[column-header corner row-header item], ///
border(top bottom, width(1) pattern(double) color(35 85 120))
collect style cell result, font(Arial, size(10) color(35 85 120)) halign(center)
collect style cell cell_type[column-header corner], font(Arial, size(10) color(white) bold) ///
shading(foreground(85 150 100))
collect style cell cell_type[row-header], shading(foreground(215 235 215)) font(Arial, size(10))
collect style cell result[regress kwallis pearson], minimum(0.001) nformat(%6.3f)
collect title "Tabla 1. Análisis descriptivo de la muestra por grupo“
collect style title, font(Arial, size(9) color(35 85 120) italic)
collect export "myfile.docx", replace
```

Tabla 1. Análisis univariable de la muestra por grupo

	Low birthweight baby	
	No n=4,362	Yes n=280
Mother's age	26.6 (5.6)	25.5 (6.0)
Months since last birth	13.0 [0.0; 35.0]	11.0 [0.0; 32.5]

Utilización más asequible por parte de todos



Podemos hacerlo de forma general…

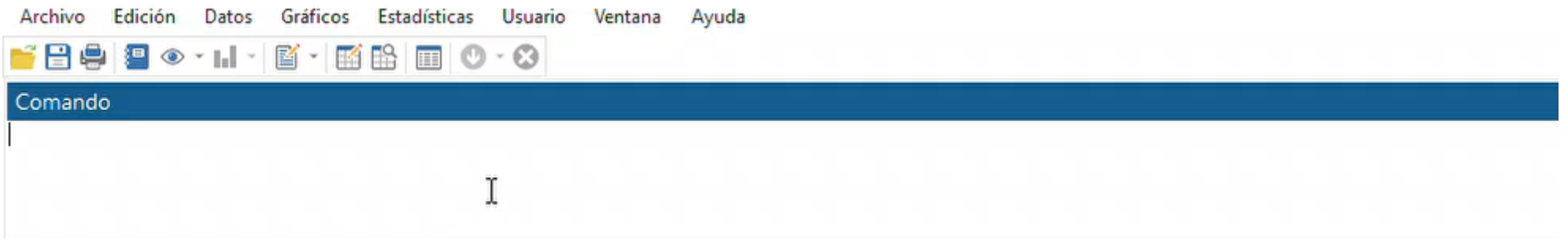


Tabla 1. Demographic data

	Summary n=4,642
Mother's age	26.5 (5.6)
Months since last birth	13 [0; 35]
Mother is white	
No	740 (15.9%)
Yes	3,902 (84.1%)
Previous births where newborn died	
No	3,438 (74.1%)
Yes	1,204 (25.9%)
Mother smoked	
Nonsmoker	3,778 (81.4%)
Smoker	864 (18.6%)
Trimester of first prenatal care visit	
0	70 (1.5%)
1	3,720 (80.1%)
2	697 (15.0%)
3	155 (3.3%)

Mean (Standard deviation)
Median [p25; p75]
Frequency (%)

O por grupos (con o sin prueba estadística)

Comando

Tabla 1. Demographic data

	Low birthweight baby	
	No n=4,362	Yes n=280
Mother's age	26.6 (5.6)	25.5 (6.0)
Months since last birth	13 [0; 35]	11 [0; 32]

O por grupos (con o sin prueba estadística)

Comando

Tabla 1. Demographic data

	Low birthweight baby	
	No n=4,362	Yes n=280
Mother's age	26.6 (5.6)	25.5 (6.0)
Months since last birth	13 [0; 35]	11 [0; 32]

Comando

Tabla 1. Demographic data

		Low birthweight baby	
	No n=4,362	Yes n=280	Test
Mother's age	26.6 (5.6)	25.5 (6.0)	0.002
Months since last birth	13 [0; 35]	11 [0; 32]	0.677
Mother is white			
Trimester of first prenatal care visit			
0	46 (1.1%)		
1	3,519 (80.7%)		
2	651 (14.9%)		
3	146 (3.3%)		

Mean (Standard deviation): p-value from Student-T test.
Median [p25; p75]: p-value from Kruskal-Wallis test.
Frequency (%): p-value from Pearson test.

Futuros pasos

- Desarrollar un programa parecido para obtener el resultado de los modelos

Futuros pasos

- Desarrollar un programa parecido para obtener el resultado de los modelos

```
collect: regress bweight mage monthslb
collect layout (colname) (result[_r_b _r_se _r_ci _r_p]) (cmdset)
collect title "Tabla 3. Modelo lineal predictivo"
collect style cell border_block[column-header corner row-header item], border(top bottom, width(1) pattern(double) color(35 85 120))
collect style cell cell_type[column-header corner], font(Arial, size(10) color(white) bold) shading(foreground(85 150 100))
collect style cell cell_type[row-header], shading(foreground(215 235 215))
collect style cell cell_type[column-header item], halign(center)
collect style cell cell_type[item], halign(center) font(Arial, size(10) color(35 85 120)) nformat(%6.2f)
collect style cell result[_r_ci], sformat("[%s]") cidelimiter(,)
collect style cell result[_r_p], minimum(0.001) nformat(%6.3f)
collect export "mymodel.docx", replace
```

Tabla 3. Modelo lineal predictivo

	Coefficient	Std. error	95% CI	p-value
Months since last birth	0.06	0.00	[0.06, 0.07]	<0.001
Low birthweight baby	-1.09	0.32	[-1.72, -0.46]	<0.001
Intercept	25.09	0.10	[24.90, 25.27]	<0.001

Futuros pasos y problemas a solucionar

- Desarrollar un programa parecido para obtener el resultado de los modelos

```
cd "G:\Mi unidad"
collect style save mystyle, replace

collect clear
collect: regress bweight mage monthslb
collect style use mystyle
collect export "mymodel.docx", replace
```

Tabla 3. Modelo lineal predictivo

	Coefficient	Std. error	95% CI	p-value
Months since last birth	0.06	0.00	[0.06, 0.07]	<0.001
Low birthweight baby	-1.09	0.32	[-1.72, -0.46]	<0.001
Intercept	25.09	0.10	[24.90, 25.27]	<0.001

Tabla 3. Modelo lineal predictivo

	Coefficient	Std. error	95% CI	p-value
Months since last birth	.0643522	.0023394	[.0597659, .0689384]	<0.001
Low birthweight baby	-1.092204	.3209548	[-1.721428,-.4629799]	<0.001
Intercept	25.08548	.0954897	[24.89828, 25.27269]	<0.001

Futuros pasos

- Desarrollar un programa parecido para obtener el resultado de los modelos
- Combinar ***collect*** y ***putdocx*** para optimizar nuestro tiempo en el proceso de desarrollar informes

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- Desarrollar un programa parecido para obtener el resultado de los modelos
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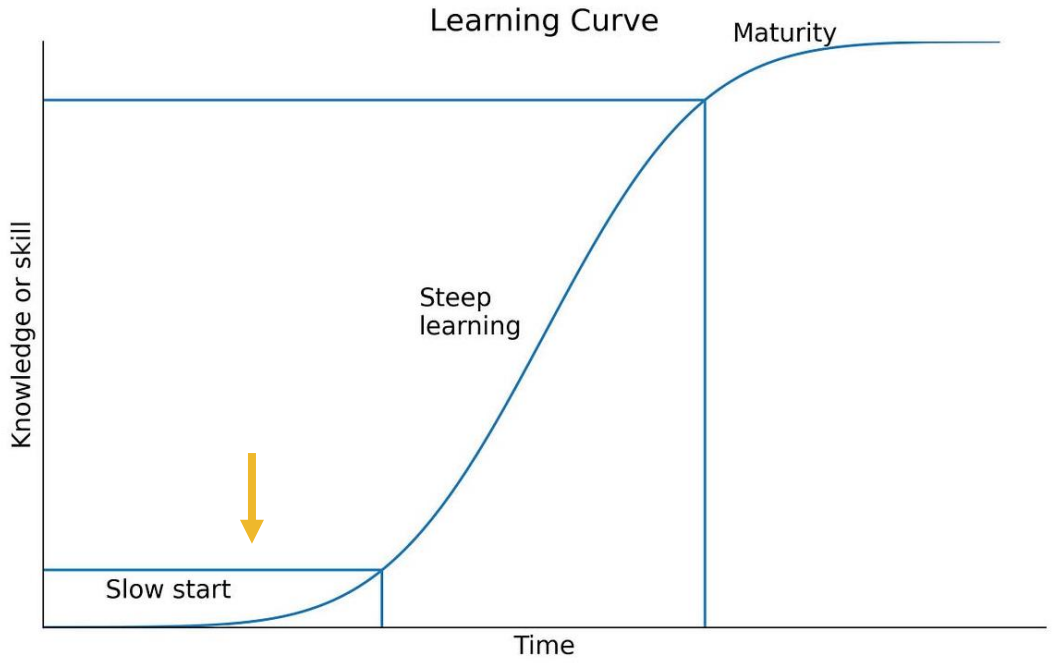
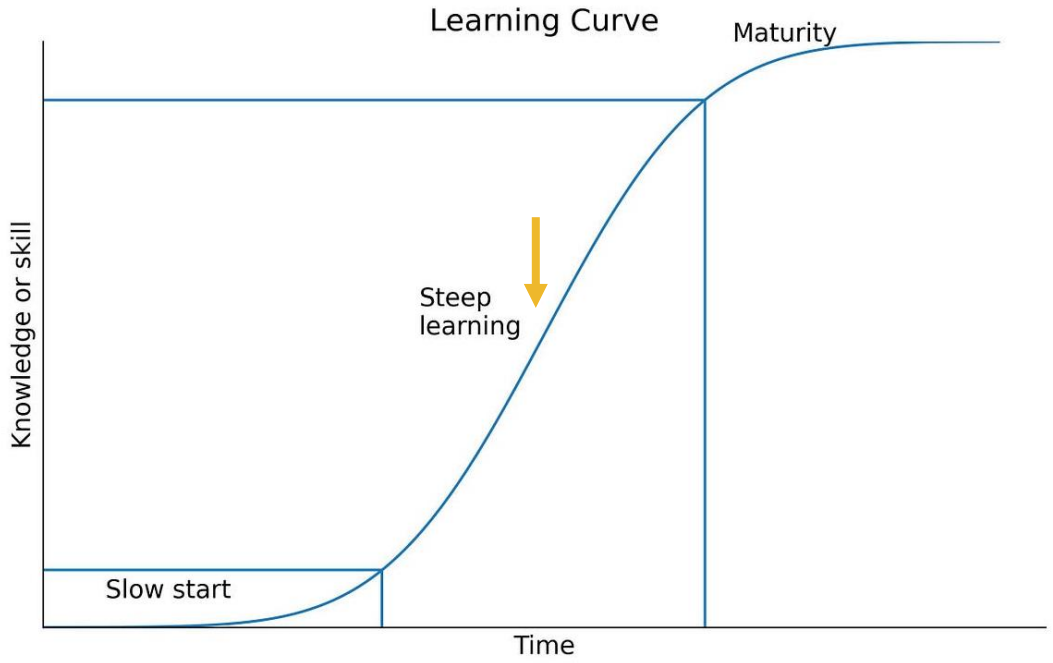


Futuros pasos

- Desarrollar un programa parecido para obtener el resultado de los modelos
- Combinar ***collect*** y ***putdocx*** para optimizar nuestro tiempo en el proceso de desarrollar informes



¡Muchas gracias por la atención!

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