

R2: Group 46 6.75/12 → 3.375/6

1. Formatting:

0.5/7.5

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

R formulas

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

→ hard to follow

3. EDA:

1/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

Table 1: do not use scientific notation
don't need Figures 3/4

4. Model fitting:

First write mathematical model

0.75/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

R^2_{adj} - put in text, not at end

5. Model assessment:

0.5/2

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, - SQUARE residuals vs. fitted

interpret these plots

3.75/7.75

0.5 / 1
1.25 / 1
1.25

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

8. Conclusions

recap analysis

state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- p. 7 - ?? Illegible

- only need scientific notation for p-values

3/4.25

R2: Group 48 8.75/12 → 4.375/6

1. Formatting:

0.75/0.75

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

1/1

(brief statement of scientific question) *not just 're-do'*

all variables defined

3. EDA:

1.75/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

LSQUARE pairs plots

4. Model fitting:

1.25/2

First write mathematical model

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC / R² adj

5. Model assessment:

CLEARLY state model assumptions:

0.75/1

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, *-SQUARE*
residuals vs. fitted

carefully interpret plots

5.5/7.75

1/1

- Don't need scientific notation
6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75 / 1.25

7. Plots:

label size (not too small)

(captions)

placement

NOT BLURRY

0.5 / 1

8. Conclusions

recap analysis

- use paragraphs
state main findings

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- put refs at end, not footnote

3.25 / 4.25

R2: Group

49

7.5/12 →

3.75/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

(all variables defined)

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

You have chosen a very complex model

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC/BIC/CV

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, -SQUARE
residuals vs. fitted

Carefully interpret plots

3.75/7.75

1/1
0.75/1.25

6. Write out final estimated model **mathematically**

(OK)
hat on response variable max **2 sig digits** on coefs

7. Plots: - number each figure

label size (not too small) captions

placement **NOT BLURRY**
- vertical scale on CV plot too big

1/1

8. Conclusions

recap analysis state main findings

1/1

9. Language quality:

poor satisfactory good excellent

10. Other comments:

3.75/4.25

R2: Group 50 8.25/12 → 4.125/6

1. Formatting:

0.75/0.75

- all margins 2.5cm
- informative title
- 12 pt size
- member names on all pgs
- no raw R code or output**
- all pages numbered
- max 7 pages
- no blurry plots (**NOT** png)

1/1

2. Introduction/Background:

- brief statement of scientific question
- all variables defined

1.25/2

3. EDA: *What is Figure 1?*

- univariate numerical
- bivariate numerical (cor)
- univariate graphical
- bivariate graphical

1/2

4. Model fitting:

first write out mathematical model
state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms *AIC/R²adj*

5. Model assessment:

CLEARLY state model assumptions:

0.75/2

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

Carefully interpret plots

9.75/7.75

0.5/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

1.25/1

7. Plots:

1.25 label size (not too small)

captions

placement

NOT BLURRY

0.75/1

8. Conclusions

(+EDA)
recap analysis

- use paragraphs
state main findings

4/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- cite primary refs [1]

3.5/4.25

R2: Group

51

6/12 →

3/6

1. Formatting:

0/0.75

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

informative title

member names on all pgs

all pages numbered

no blurry plots (**NOT** png)

2. Introduction/Background:

give context

brief statement of scientific question

all variables defined

3. EDA:

Explain

- SQUARE QQ

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

- First write model mathematically
state how model fitted (ie, LS)

CLEARLY describe how model selected

use statistical methods

define all terms

5. Model assessment:

- incomplete/simplistic

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, - SQUARE
residuals vs. fitted

- carefully interpret plots

3.5/7.75

- Don't need 'general' version

1/1

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

0.5 / 1.25

7. Plots: make 'pretty' labels

label size (not too small)

captions + number each Figure
NOT BLURRY

placement

0.25 / 1

8. Conclusions

recap analysis

* interpretation
state main findings

0.75 / 1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs

'style too much like question/answer'

2.5 / 4.25

R2: Group

52

6.75/12

→ 3.375/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

- too many digits

2. Introduction/Background:

brief statement of scientific question

all variables defined

Region?

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

- square pairs plots

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC / R^2_{adj}

improved model 'significantly'??
'naive'??

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

- SQUARE

- carefully interpret plots

3.25 / 7.75

0.5/0.75

0.75/1

0.75/2

0.75/2

0.5/2

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

(captions)

placement

NOT BLURRY

8. Conclusions

recap analysis

state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

3.5 / 4.25

R2: Group 53 7.75/12 → 3.875/6

1. Formatting:

0.75/0.75

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

(informative title)

member names on all pgs

all pages numbered

no blurry plots (**NOT png**)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA: - SQUARE QQ

0.75/2

univariate numerical

bivariate numerical (cor)

univariate graphical

- hist (not boxplot)

bivariate graphical

all pairs scatterplots

4. Model fitting:

1/2

- First write model mathematically
state how model fitted (ie, LS)

CLEARLY describe how model selected

what is your final model? →

define all terms

R^2_{adj}

5. Model assessment:

1/2

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, - SQUARE
residuals vs. fitted

- carefully interpret plots

4.5/7.75

* You are treating region as numeric, it is a **FACTOR**

(U model)

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

8. Conclusions

recap analysis

* careful interpretation
state main findings

9. Language quality:

poor

satisfactory

good

excellent

not always clear

10. Other comments:

* careful: cannot conclude causation, only association (what does 'parameters irrelevant' mean?)

Your Questions:

① use a different code for each region

② Region code needs to be treated as a **FACTOR**, you seem to treat it numerically
→ forcing intercept = 0 will affect your estimates and therefore significance (NOT 'relevance')

③ no, just treat Region as a **FACTOR** in the multiple reg

④ you don't need to do this

3.25 / 4.25

R2: Group 54

7/12 → 3.5/6

0.5 / 0.75

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

0.75 / 1

2. Introduction/Background:

brief statement of scientific question

- can't address causality

all variables defined

1/2

3. EDA: *see interpretation (other side)*

univariate numerical

- Don't need cor
bivariate numerical (cor)

univariate graphical

bivariate graphical

- SQUARE

1/2

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

R^2 , R_{adj} , AIC

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, residuals vs. fitted

- SQUARE

careful how you're interpreting results
carefully interpret plots

4/7.75

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75/1.25

7. Plots:

label size (not too small)

captions

placement

Figures 6/7
too big, too much
blank space

NOT BLURRY

standardized residuals?

0.75/1

8. Conclusions

recap analysis

be more careful
(state main findings)

0.75/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs

- Edt: your interpretations are either too general or over-the-top

* interp: cannot infer causation, only association

- 'statistical validity' has no meaning, and in any case certainly not 'ensured'

3/4.25

R2: Group SS 7/12 → 3.5/6

1. Formatting:

0.5/0.75

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

informative title

member names on all pgs

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1.25/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75/2

Don't need boxplots
- First write model mathematically
- square why just 4/8?
state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms backward/AIC/R² adj

5. Model assessment:

0.75/2

(CLEARLY) state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals, residuals vs. fitted

- SQUARE
- clearly interpret plots

4.25/7.75

0.5/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75/1.25

7. Plots:

square

label size (not too small)

captions

placement

NOT BLURRY

0.75/1

8. Conclusions

recap analysis

- use paragraphs
- somewhat unclear
state main findings

0.75/1

9. Language quality:

spell check; some parts unclear

poor

satisfactory

good

excellent

10. Other comments:

- no refs

2.75/4.25

R2: Group

56

9.5/12 →

4.75/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

(no blurry plots (**NOT** png))

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

where is intercept?

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC / R^2_{adj}

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

- Don't need Durbin-Watson
- carefully interpret plots

0.75/0.75

1/1
2/2

1.25/2

1.25/2

6.25/7.75

where is intercept?

0.75 / 1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75 / 1.25

7. Plots:

label size (not too small)

placement

→ be more specific and correct
(captions)
NOT BLURRY

0.75 / 1

8. Conclusions

recap analysis

* interpretation
state main findings

1 / 1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

* cannot include causality, only associations
also, your stated conclusions are evident from the correlation matrix, you don't need the model for these generalities

- Beccaria not cited

) → "

- Does not assume 'linear relationship between the variables'

→ what does that even mean?

- mult reg does not fit a line

3.25 / 4.25

R2: Group 57 $5.75/12 \rightarrow 2.075/6$

1. Formatting:

all margins 2.5cm

informative title

0.75/0.75

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

R formulas in plots

2. Introduction/Background:

brief statement of scientific question

say more / give context.

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

entire matrix, in text (not appendix)

4. Model fitting:

First write mathematical model
state how model fitted (ie, LS)

L all pairs
L plot shape

CLEARLY describe how model selected

be more specific

define all terms

Forward/Backward/stepwise
→ what you say is very vague and general

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, -SQUARE
residuals vs. fitted

Show results before you interpret them
you talk about the 'data', you need to specifically refer to errors

- carefully interpret plots

3/7.75

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots: *shape + size*

label size (not too small)

captions

placement

NOT BLURRY

8. Conclusions

recap analysis

interpretation
state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- you don't 'validate' assumptions, you assess them

⊗ cannot infer causation, only association

2.75 / 4.25

R2: Group

50

7.75/12 →

3.875/6

1. Formatting:

0.75/0.75

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

informative title

member names on all pgs

all pages numbered

no blurry plots (**NOT png**)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC/BIC

your method is very unclear

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

-SQUARE

Careful plot interpretation/explanation

5.25/7.75

0.75 / 1
0.5 / 1.25
0.25 / 1
1 / 1

→ yes ^ / no error

6. Write out final estimated model mathematically

hat on response variable

max 2 sig digits on coefs

7. Plots:

plot sizes / shapes

label size (not too small)

captions

placement

NOT BLURRY

8. Conclusions

recap analysis

* interpretation
state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- please use 1 column format

- no refs

* cannot infer causation, only association

- Central Limit Thm does not apply

2.5 / 4.25

R2: Group 60

8/12 → 4/6

1. Formatting:

0.75 / 0.75

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1.5/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

2

↳ *hist, not boxplots*
mathematical model: no ^ / yes error
you do not carry out a model selection procedure

5. Model assessment:

- careful plot interpretation

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

- what is your reference line?

- Don't need Shapiro-Wilk / Durbin-Watson / Breusch-Pagan, just plots
- you assess assumptions, not 'validate'

1/2

5/7.75

0.75/1

yes[^]/no error

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

0.75/1.25

label size (not too small)

captions

placement

NOT BLURRY

8. Conclusions

0.5/1

recap analysis

be specific
state main findings

9. Language quality:

1/1

poor

satisfactory

good

excellent

10. Other comments:

- I don't see where you cite ref [3]

- your results description is very generic
→ you need to be more specific

- Refer specifically to each figure and
interpret/comment

3/4.25

R2: Group 62

8/12 → 4/6

1. Formatting:

0.75 / 0.75

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

↳ CR formulas in models table

no blurry plots (**NOT** png)

2. Introduction/Background:

1 / 1

brief statement of scientific question

all variables defined

3. EDA:

2 / 2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75 / 2

- First write out model mathematically
state how model fitted (ie, LS)

CLEARLY describe how model selected - not 'simple regression' (?)

define all terms

→ F-stat P-values? What about measures of fit??

5. Model assessment:

1.25 / 2

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

- careful plot interpretation

4.75 / 7.75

0.75/1

- no error

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75

7. Plots:

1.25

label size (not too small)

(captions)

placement

NOT BLURRY

0.75/1

8. Conclusions

CHEDA
recap analysis

- use more
state main findings

paragraphing

9. Language quality:

1/1

poor

satisfactory

good

excellent

10. Other comments:

3.25/4.25

R2: Group 73 5.75/12 → 2.875/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief statement of scientific question

*cannot assess causation,
only association*

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical
(square)

4. Model fitting:

- First write model mathematically
state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

- imprecise interpretation

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, *- square*
residuals vs. fitted

- careful plot interpretation

0.5/0.75

0.75/1

1.25/2

0.75/2

0.5/2

3.75/7.75

0 / 1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75 / 1

7. Plots: - *don't*

label size (not too small)

captions

not all appropriate

placement

NOT BLURRY

0.25 / 1

8. Conclusions

recap analysis

very incomplete
state main findings

1 / 1

9. Language quality: *spell check*

poor

satisfactory

good

excellent

10. Other comments:

- cite ref in text + put at end

2 / 1.25

R2: Group 79 9.5/12 → 4.75/6

1. Formatting:

- all margins 2.5cm
- informative title
- 12 pt size
- member names on all pgs
- no raw R code or output**
- all pages numbered
- max 7 pages
- no blurry plots (**NOT png**)

0.75/0.75

2. Introduction/Background:

- brief statement of scientific question
- all variables defined

1/1

3. EDA:

How can you tell criminals ~ normal??

- univariate numerical
- bivariate numerical (cor)
- univariate graphical
- bivariate graphical - combine figures 3 & 4

1.5/2

4. Model fitting:

* First write model mathematically
state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms R^2_{adj} defn not completely correct
- what is 'normalization'?

1.25/2

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals, - square
residuals vs. fitted

0.75/2

- why are you removing outliers?
* carefully interpret plots

5.25

1/1
1.25/1.25
6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.5/1
1.25/1
8. Conclusions

recap analysis

state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- use 1-column format

- no refs

- Table 2 too small

+1.25 leverage etc

4/4.25

R2: Group 75 $6.75/12 \rightarrow$ 3.375/6

1. Formatting:

- $0.75/0.75$
- all margins 2.5cm
 - informative title
 - 12 pt size
 - member names on all pgs
 - no raw R code or output**
 - all pages numbered
 - max 7 pages
 - no blurry plots (**NOT png**)

2. Introduction/Background:

- $4/1$
- brief statement of scientific question
 - all variables defined

3. EDA: *Very incomplete*

- $0.25/2$
- univariate numerical
 - bivariate numerical (cor)
 - univariate graphical
 - bivariate graphical

4. Model fitting:

- $0.5/2$
- First write model mathematically*
 - state how model fitted (ie, LS)
 - CLEARLY** describe how model selected
 - define all terms R^2_{adj}

5. Model assessment: *very incomplete*

$1/2$ CLEARLY state model assumptions:

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals, - square
residuals vs. fitted

- you assess (not verify) assumptions

$R^2 = 1.27 \times 10^5$ impossible

- careful plot interpretation

$3.5/7.75$

0.5/1

→ make clear your final model

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

1/1.25

label size (not too small)

captions

placement

too much blank space

NOT BLURRY

8. Conclusions

0.75/1

recap analysis

* interpretation
state main findings

9. Language quality:

1/1

poor

satisfactory

good

excellent

10. Other comments:

-ref [1] incomplete

* cannot infer causality, only association

3.25/4.25

⊗ inutile de refaire, il vaut 6 déjà

T.B. Travail!

R2: Group

77

10.5 / 12 → 5.25 / 6

6/6



0.75 / 0.75

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

~~no raw R code or output~~

all pages numbered

max 7 pages

R formula

no blurry plots (NOT png)

2. Introduction/Background:

1/1

brief statement of scientific question

(pas 'l'influence', plutôt les associations)

all variables defined

1.75 / 2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

↳ pas les boxplots

↳ carrés

4. Model fitting:

- D'abord, écrire le modèle mathématiquement

state how model fitted (ie, LS)

1.25 / 2

CLEARLY describe how model selected

define all terms

R² / R²_{adj}

5. Model assessment:

CLEARLY state model assumptions:

1.5 / 2

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, residuals vs. fitted

- on évalue le modèle et non 'vérifie'
- interprétation des graphiques pas tout à fait précise

6.25 / 7.75

1/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

1.25/1.25

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.75/1

8. Conclusions

(+EDA
recap analysis

state main findings

1.25/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

)) → ''

4.25/4.25

R2: Group

84

6.75/12 →

3.375/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

- too many digits

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

pairwise scatterplots

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC / R^2 / R^2_{adj}

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, - square residuals vs. fitted

- carefully interpret plots

4/7.75

0.5/1 choose 1 model

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

1/1.25 7. Plots:

label size (not too small)

(captions) *be more precise*

placement

NOT BLURRY

0.25/1 8. Conclusions

recap analysis

*****interpretation
state main findings

1/1 9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- figures (not Fig.)

- give primary refs (NOT [2])

"" → ""

*****cannot conclude causation, only association

2.75/4.25

R2: Group 85

$7.5/12 \rightarrow 3.75/6$

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

Figure 5

brief statement of scientific question

all variables defined

3. EDA: Don't need Figure 3

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical - all pairs

4. Model fitting: - present all summaries in table, hard to follow in text

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

rather incomplete

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, residuals vs. fitted

- square

doesn't need to be diagonal line
careful interpretation of plot

0.5 / 0.75

0.75 / 2

0.75 / 2

1.5 / 2

4.5 / 7.75

0/1

where is this?

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

1/1.25

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

1/1

8. Conclusions

recap analysis

(a bit generic at end)
state main findings

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs

3/4.25