

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)

- Don't need class name / number / part

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

- Too verbose p. / could use more paragraphing

3. EDA:

0.75 / 0.25 / 2

univariate numerical

(bivariate numerical (cor))

univariate graphical

bivariate graphical

4. Model fitting:

- write model mathematically before fitting

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

within/between; selection criteria

Show ANOVA table - make sure explanatories are FACTORS, ie, correct df

5. Model assessment:

0.5 / 2

CLEARLY state model assumptions:

- assumptions are on the errors, not X's

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

+ interpret

SQUARE

3.25 / 7.75

0.5 /
0.75 /
1.25 /
0.5 /
1 /

- estimated model doesn't have error term

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

placement

model not correctly specified,
you do not have enough terms

captions

NOT BLURRY

are you sure you
are treating the
x's as **FACTORS**

8. Conclusions

recap analysis

state main findings

* interpretation

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- Don't need reference to course (Intro)

- Put variable descriptions in table, the way
you have presented them is too diffuse (sec 3.1)

- Analysis of variance - no quotes

- write hyps mathematically

- use **primary** refs for techniques (not refs 4/5)

- Results fig 1: indep vars **not** normal,

they are **FACTORS**

- interpret fitted model in Results section

* 'influences' / 'impact', etc - cannot
conclude causality, only association

- Haha Haha ☺

2.75/4.25

A1: Group 02 4.75/12 → 2.375/6

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**)

- too many digits on error mean/var

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA: Exploratory

0.75/2

univariate numerical

univariate graphical

freq. table

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

0.5/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms - AIC

write mathematical model that you are fitting - explain stepwise procedure

Show ANOVA table - make sure explanatories are FACTORS, ie, correct df

- Final anova table?

5. Model assessment:

1/2

CLEARLY state model assumptions:

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

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

square plot

unclear

- you assess model, NOT 'validate' it

3.25/7.75

0.25/1 | 6. Write out final estimated model **mathematically** not R formula
hat on response variable (ok if coefs in table) max 2 sig digits on coefs

0.5/1.25 | 7. Plots: number each figure
label size (not too small) captions
placement **NOT BLURRY** meaningful labels

0/1 | 8. Conclusions
recap analysis state main findings

0.75/1 | 9. Language quality: a lot is unclear
poor satisfactory good excellent

10. Other comments:

- too much blank space
- write model mathematically
- what is table at bottom p.1 for?
- p.4 - what is 'this hyp'?
- p.5 - interpretations not clearly explained
- Conclusion?
- ref 2 incomplete
- most refs not cited in text

1.5/4.25

A1: Group 03

4.75/12 → 2.375/6

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:

1/1

brief statement of scientific question

all variables defined

3. EDA:

0.5/2

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

summarize vars in table, what you have is too verbose

4. Model fitting:

0.5/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are **FACTORS**, ie, correct df

5. Model assessment:

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, residuals vs. fitted

Don't need QQ normal plot, show histogram for factor + bar charts for others

aren't you doing F-test, not LR??

give mathematical descriptions of model

interpret results

write null/alt hyps mathematically

0.25/2

not residuals (which are estimated errors)

2.25/7.75

* don't need cov mat, and how are you computing cor mat? The variables are not numeric

0.5/1

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

give a mathematical formulation of model, OK if coefs in table

hat on response variable (ok if coefs in table)

max 2 sig digits on coefs

0.5/1.5

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state main findings

overly broad

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- your plots 7, 8/9 should be in the text -
change layout so that they fit and make
vertical rather than horizontal box plots

→ (open quote)

[Table 5 does not include size but does have an interaction including size]

- Figure, not Fig

- analysis of variance

- remove * from var names in tables

- you aren't including 'bivariates' in model, rather interactions

- Do you compare 'general' model to [Table 5] model?

- no refs
- non-parallel lines indicate (not 'suggest') interactions

2.5/4.25

A1: Group 04 8.25/12 → 4.125/6

0/0.75

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**)

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:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are **FACTORS**, ie, correct df

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

+ interpret

- what does 'efficient' model mean??
- you have a size interaction without size in the model

4.75/7.75

1.25/2

1.25/2

1.25/2

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

hat on response variable
(ok if **coefs** in table)

max **2 sig digits** on coefs

0.75 / 1.25

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.75 / 1.1

8. Conclusions

recap analysis

state main findings

(+ interpret)

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- 'Figure' not 'Fig'
- remove - from var names in table
- I don't understand last paragraph p.4
- no technical refs
- need table of est. coefs

3.5 / 4.25

A1: Group

06

6.5/12 →

3.25/6

1. Formatting:

0/0.75

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:

Appendix

brief statement of scientific question

all variables defined

0.75/2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

write model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC?

Show ANOVA table - make sure explanatories are **FACTORS**, ie, correct df

why assess normality? Do you need it?

5. Model assessment:

1.75/2

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

- figures too small

* EDA - Do not do tests. if you are going to include the results from p.s, please use a table.

4/7.75

incorrect specification

0.5/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.5/1.25

7. Plots:

label size (not too small)

placement

captions

vague

NOT BLURRY

- Design plot labels incomplete

0.5/1

8. Conclusions

recap analysis

(somewhat incomplete)

state main findings

- new paragraph

9. Language quality:

poor

satisfactory

good

excellent

↳ vague, be specific

10. Other comments:

= no technical refs

- your report is hard to follow - too much vague text running together: add structure by using paragraphing and tables
- model fitting description vague + superficial, please elaborate clearly
- what does 'stepwise AIC' mean?

2.5/4.25

A1: Group

07

7.5/12 → 3.75/6

1. Formatting:

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)

you are not doing ANOVA on (informative title) the paper

- 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

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are FACTORS, ie; correct df

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

too many digits

don't need a very incomplete

+ comparisons of different models

AIC/BIC

- write out the model mathematically

- you assess assumptions, not 'validate'

model 'appropriateness' not 'validity'

0.5 / 0.75

0.75 / 2

0.25 / 2

1.75

4.5 (7.25)

0.5 / 1
model incorrectly specified - need 1 coef for each factor level
6. Write out final estimated model **mathematically** *estimated model does not have error term*
hat on response variable
(ok if coefs in table) max 2 sig digits on coefs

1 / 1.25
7. Plots: *diagnostic plots a little small*
label size (not too small) captions
placement **NOT BLURRY**

0.5 / 1
8. Conclusions - *EDA does not assess significance*
recap analysis state main findings *(*) interpretation*

9. Language quality:

1 / 1
poor satisfactory good excellent

10. Other comments:

(*) 'significantly impact' - cannot determine

causality, only association

(+ 'temp harming flavor')

- too many digits

- '' → ''

- SP: CM interactions - how does this

model compare - specifically - to model

without those interaction terms

- no refs

3 / 4.25

A1: Group

08

9/12 →

4.5/6

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

univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

1.25/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are FACTORS, ie, correct df.

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
- interp. floue / incorrecte

5.5/7.75

table(s) # obs
chaque var/categorie

D'abord, écrire le modèle mathématique
que vous estimez

→ utiliser notation scientifique pour montrer
les digits significatifs (dans les
p-valeurs)

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

hat on response variable
(ok if coefs in table)

max 2 sig digits on coefs

0.75/1.25
7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.75/1
8. Conclusions

recap analysis

state main findings ~~*~~ interpretation

1/1
9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs

-)) →

~~*~~ On ne peut pas conclure causalité (ont le plus grand impact), seulement associations

3.5/4.25

A1: Group

09

6.75 / 12

→ 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)

- too many digits

2. Introduction/Background:

0.5 / 1

brief statement of scientific question

all variables defined

3. EDA:

1 / 2

freq. table

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.25 / 2

- very incomplete

- color code hard to distinguish

state how model fitted (ie, LS)

- write mathematical model that you are fitting

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are FACTORS, ie, correct df

5. Model assessment:

1.5 / 2

CLEARLY state model assumptions:

[before diag-plots]

plot interps

- 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

4 / 7.75

incorrectly specified

0/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

4/1.25

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.75/1

8. Conclusions

(recap analysis)

state main findings

incomplete

4/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs?

- why only consider 2 factors? There are several
- need table of coefs for final model
- need est. coefs in table

2.75/4.25

A1: Group

10

7.25/12 →

3.125/6

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:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are FACTORS

ie, correct df

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

+ interpretation

0/0.75

1/1

1/2

0.75/2

1.5/2

4.25/7.75

incomplete

BIC/AIC

too many digits in p-values, use scientific notation

- Don't select models by EDA, use formal model selection techniques

SQUARE

0.75/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.75/1.25

7. Plots: + SQUARE QQ

label size (not too small)
placement

captions

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state main findings ~~*~~ interpretation

1/1

9. Language quality:

poor satisfactory good excellent

10. Other comments:

- Figure, not Fig

- 'crucial' EDA sounds like overkill

- write null/alt hyps mathematically

⊗ 'significant factors imparting flavor' - cannot

↪ determine causality, only association
'lead to'

- no refs

- need est. coefs in table

3 / 4.25

A1: Group 12

7/12 → 3.5 / 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)

- Don't need date

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75/2

state how model fitted (ie, LS)

model incorrectly specified - need 1 coef for each factor level

CLEARLY describe how model selected

define all terms

write null/alt hyps mathematically

Show ANOVA table - make sure explanatories are FACTORS, ie, correct df

5. Model assessment:

1.5/2

Should not eliminate vars/models from consideration based on EDA - use formal model selection techniques

CLEARLY state model assumptions:

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

SQUARE

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

+ interpretation

5/7.75

0/1

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

not done

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.75
1.25

7. Plots:

f SQUARE QQ

label size (not too small)

captions

placement

NOT BLURRY

0.25
1

8. Conclusions

not 2-way because you have more than 2 vars

recap analysis

state main findings

* interpretation

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- Don't use 'indeed' - sounds normal in French, but pretentious in English

- Figure not Fig.

* p.4 'changes significantly' - cannot determine causality, only association

- assumptions assessed not verified

- plot interpretations not explicitly explained

- Tukey (not Tuckey) - write out test explicitly

- no refs

→ put results in a table, not text, then

2/4.25 interpret in text

A1: Group

13

7/12

→ 3.5/6

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)

- don't need date

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

not anova

1/2

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

0.5/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC

Show ANOVA table - make sure explanatory are FACTORS, ie, correct df

you should not remove lower order terms if you keep interactions and you need to keep ALL levels of any factor you keep

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

+ interpretation

3.75/7.25

0.75/1

→ wrong model - see my fitting comments

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

1/1.25

7. Plots:

label size (not too small)

placement

captions

describe plot contents, only interpret in text

NOT BLURRY

0.5

8. Conclusions

recap analysis

state main findings

interpretation

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- Describe in text what each figure depicts!

eg 'figure 1 shows ...' then interpret

* 'have no influence' - cannot determine

causality, only association (also 'impact on...')

- refs for techniques

3.25/4.25

(*) Don't need to redo, your note is 6

good job!!

A1: Group 15 11/12 → 5.5/6 → 6/6

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:

2/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

1.5/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are FACTORS, ie, correct df

5. Model assessment:

1.75/2

CLEARLY state model assumptions: → on the errors

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

missing - O

carry out assessment (graphics):

qq normal plot of residuals, → SQUAKE
residuals vs. fitted

+ clear plot interp.

7/7.75

0.75/1

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

hat on response variable
(ok if coefs in table)

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

recap analysis

state main findings

↳ separate paragraph

+0.25/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

need table of coefs
(estimated)

4/4.25

A1: Group

64

7.75/12 →

3.875/6

1. Formatting:

0.5/0.75

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:

2/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are **FACTORS**, ie, correct df

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

- plot intercepts - explain clearly

5/7.75

0.5/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

1/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.25/1

8. Conclusions

recap analysis

state main findings

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs

- need table of est. coefs

- clearly explain plot interpretations

- Don't need to start by doing single ANOVAs
start with full model then do model selection

- you need to treat explanatory variables as **FACTORS**
you seem to treat them as numeric

- need to put est. coefs in table

2.75/4.25

A1: Group 65 4.75/12 → 2.375/6

0.5/0.75

1. Formatting:

- 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)

0.75/1

2. Introduction/Background:

- brief statement of scientific question
- all variables defined - Flavor score?

3. EDA:

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

0.75/2

4. Model fitting:

Complete EDA before fitting

- state how model fitted (ie, LS)
 - CLEARLY describe how model selected
 - define all terms
 - Show ANOVA table - make sure explanatories are **FACTORS**, ie, correct df
- OK but out of place - what is the mathematical model you are fitting?*
- Explain forward/backward procedures*

AIC?

5. Model assessment:

Complete fitting BEFORE assumptions

0.75/2

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,
residuals vs. fitted

plot interpretations not clear/correct

- you don't 'verify' model, you assess it

2.75/7.75

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

hat on response variable
(ok if coefs in table)

max 2 sig digits on coefs

7. Plots:

label size (not too small)

placement

captions

NOT BLURRY

number and
caption for each
figure

8. Conclusions

recap analysis

state main findings

* interpretation

9. Language quality:

poor

satisfactory

good

excellent

- what are the 'crucial insights' ??

10. Other comments:

- no refs

- can put est. coefs in Appendix

- cannot conclude causality, for example, you say
(p. 2) 'flavor is highly affected by' → can only conclude
association

→ " → "

* cannot conclude causality, only association

2/4.25

A1: Group 6p 6.75/12 → 3.375/6

1. Formatting:

0.5/0.75

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:

2/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.5/2

First write out the model you are fitting

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms stepwise? AIC?

Show ANOVA table - make sure explanatories are **FACTORS**, ie, correct df

5. Model assessment:

0.75/2

→ NOT in conclusion

CLEARLY state model assumptions:

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

4.75/7.75

plot
interp /
↳ explain

- Don't need hyp. test, just use diagnostic plots
carry out assessment (graphics):
qq normal plot of residuals, SQUARE
residuals vs. fitted
- you assess model, NOT 'verify' /
'validate'

A1: Group

79

5.5/12 → 2.75/6

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:

0.5/1

brief statement of scientific question

not clear

all variables defined

write

3. EDA:

1.25/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

put results in table(s)

4. Model fitting:

0.75/2

First, write the mathematical model you are fitting

state how model fitted (ie, LS)

very incomplete

CLEARLY describe how model selected

define all terms

Show ANOVA table - make sure explanatories are **FACTORS**, ie, correct df

5. Model assessment:

0.75/2

- not 'qq plot of model', it's the residuals

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

- interpretations not clear/correct

3.5/7.75

0/1

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

hat on response variable
(ok if coefs in table)

max 2 sig digits on coefs

0.5/1.25

7. Plots:

label size (not too small)

placement

captions - somewhat unclear

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state main findings * Interpretation

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs

- ANOVA p-values 0.00 → use scientific notation to show sig digits

- Don't need all the intermediate ANOVA tables

* Cannot conclude causality, only association

2/4.25

no error term for est model

0.5/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.5/1.25

7. Plots: - number each figure

label size (not too small)

captions

placement

NOT BLURRY

0.25

8. Conclusions

recap analysis

state main findings *

0.75/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs

- writing style is too much like 'question/answer' format - write in complete sentences with clear explanations

* Cannot conclude causality, only association

2/4.25