deton8: Detector of Nuclei

Will LeVine & Gabriel Vacaliuc
Department of Computer Science, Rice University

Introduction

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Preprocessing & Data Whitening

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Hand Designed Features

- Bilateral Filter: convolves image with weighted Gaussian kernel; denoises the image, while still preserving the edges
- 50/99 Image Rescaling: stretches pixel distribution; increases contrast between foreground and background
- Contrast Limited Adaptive Histogram Equalization: increases contrast locally; increases brightness of small nuclei
- Dilation: convolves image with uniform kernel; increases area of small nuclei

Sample Block (Left)

Put whatever you want.

- Yes.
- This
- is
- just
- an
- example.

Sample Block (Right)

Put whatever you want.

- No.
- This
- is
- not
- a real
- poster.

Sample Block (Wide)

This block is wide.

- Put something here.Put something here.Put something here.
- Put something here.Put something here.
- Don't you get it? Put something here.

Put something here.

Something = Blur blur blur
Yadi Yadi Ya

Anything = Put something here.
OK?

Please: Put something here.

$$\mathcal{L} = \prod_{i=1}^{n} \Pr(T_{wi} > t_{wi}^{0})^{(1-c_i)} \Pr(T_{wi} = t_{wi} \cap T_{pi} > t_{pi}^{0})^{c_i(1-d_i)} \Pr(T_{wi} = t_{wi} \cap T_{pi} = t_{pi})^{c_i d_i}.$$

Another Sample Block

Figure: Figure Title Here

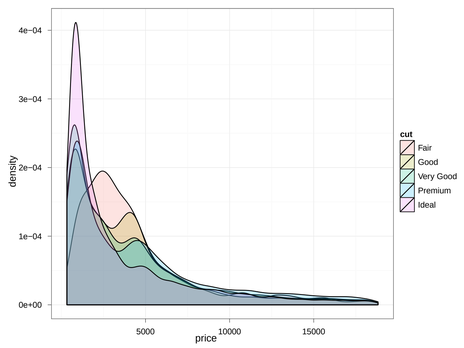
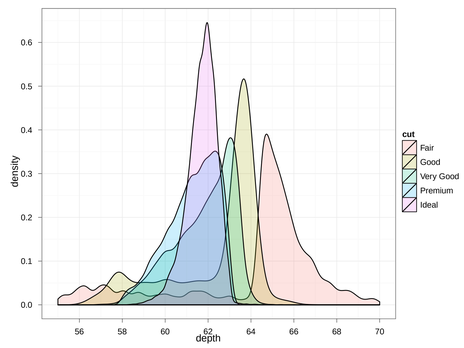


Figure: Figure Title Here



R code (`plotFigs.R`) accompanying this template will produce all the figures included in this poster (except for the Rice Logo).

Explain the figure here.

- Put something here. Put something here. Put something here. Put something here. Put something here.
- Put something here. Put something here. Put something here. Put something here. Put something here.

Put something here.

- Blur Blur Blur
- Yadi Yadi Yah

Sample Block

The following table is from the TeXShop template.

Item		
Animal	Description	Price ($)
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.50
Emu	stuffed	33.33
Armadillo	frozen	8.99

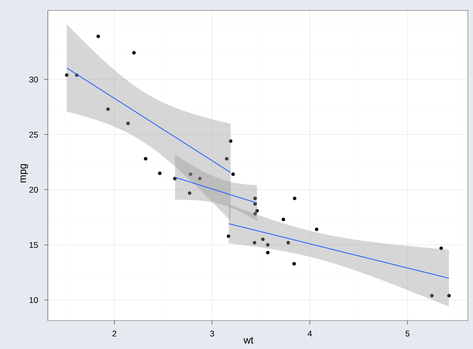
Table: Remember, *never* use vertical lines in tables.

I honestly don't know what this table means.

- This is just
- an
- example.

Findings

Figure: Effect of X on Y



Explain the findings.

Conclusion

Remember:

- You'd
- better
- keep
- it
- simple!

wvl1@rice.edu,gv8@rice.edu