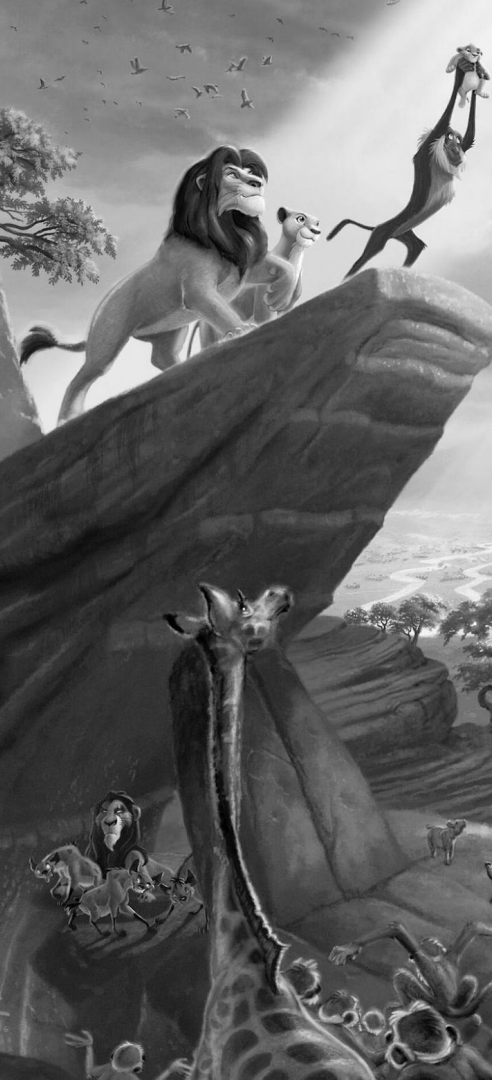


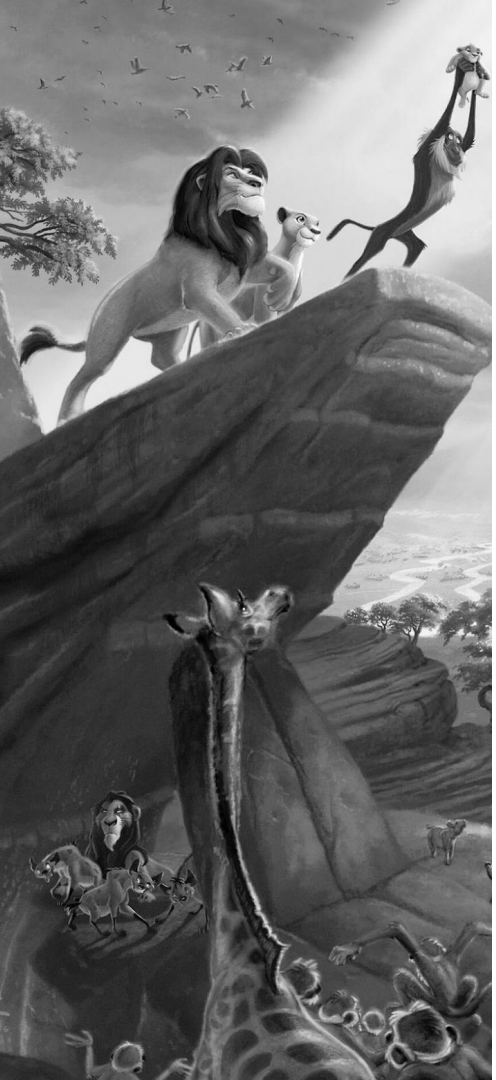
Community Ecology with GLLVMs (Day One)

cbd CENTRE FOR BIODIVERSITY DYNAMICS

NTNU Vitenskapsmuseet

NINA Norwegian Institute for Nature Research

@samperrinNTNU



main ▾ 1 branch 0 tags Go to file Add file ▾ Code ▾

BertvanderVeen Added wrap-up slides 15c663b 16 hours ago 41 commits

Exercise	Rename Files	3 days ago
Slides	Added wrap-up slides	16 hours ago
.DS_Store	Rename Files	3 days ago
README.md	Update README.md	4 days ago
WorkshopData.RDA	Add files via upload	3 days ago
lib.bib	References	4 days ago

README.md

Analysing multivariate ecological data with Generalized Linear Latent Variable Models

Thanks for participating, and welcome to this BES workshop on the `gllvm` R-package.

Before continuing further to the exercise material, please make sure you have installed the following, required, R-packages:

```
install.packages("corrplot")
```

About

GLLVM Workshop material for the BES 2020 Festival of Ecology

Readme

Releases

No releases published
Create a new release

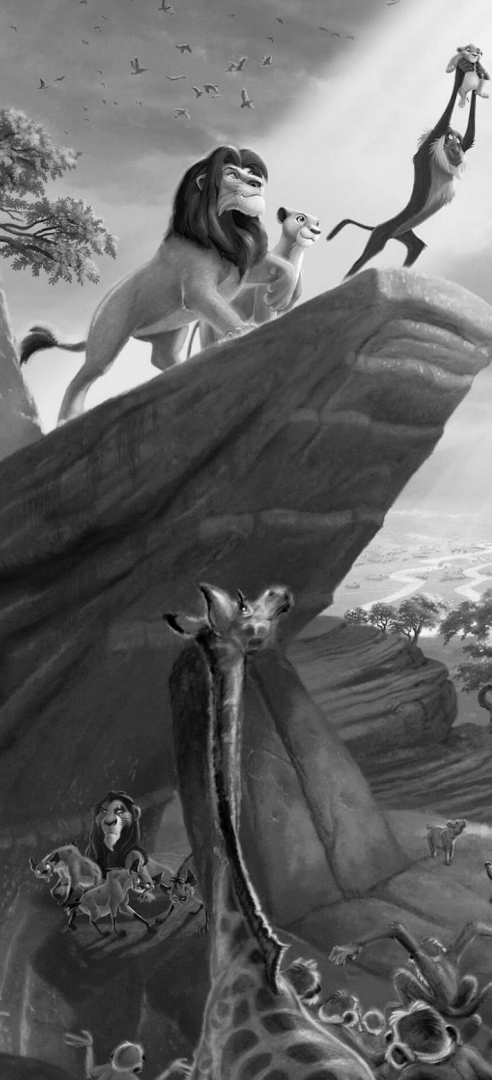
Packages

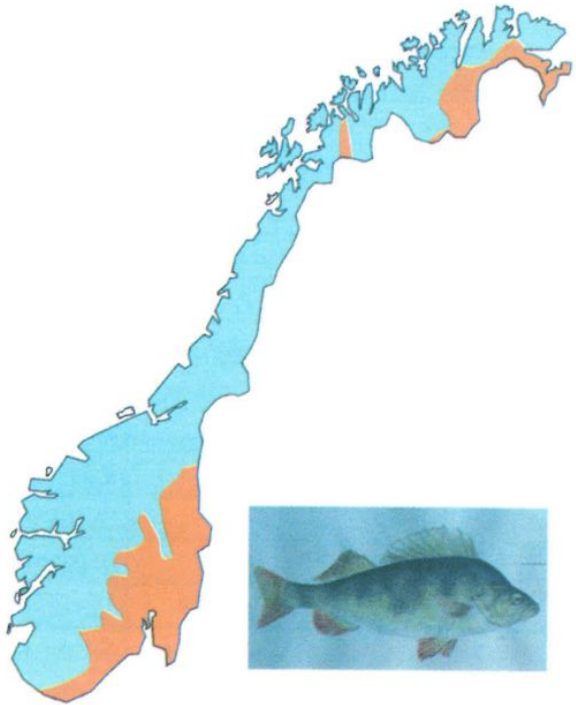
No packages published
Publish your first package

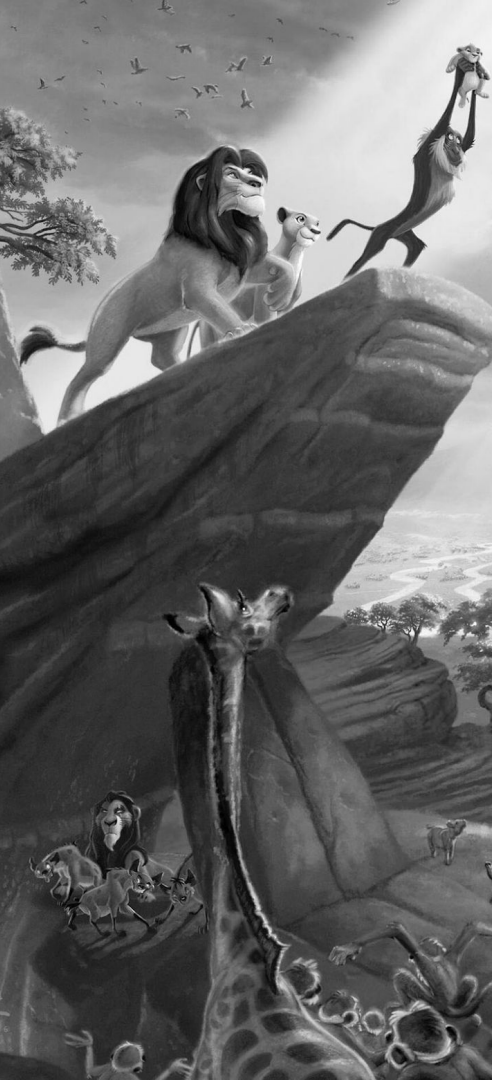
Contributors 4

- **BertvanderVeen** BertvdV
- **JenniNiku** Jenni Niku
- **samaperrin** Sam Perrin
- **oharar** Bob O'Hara

https://github.com/BertvanderVeen/BES2020GLLVMworkshop

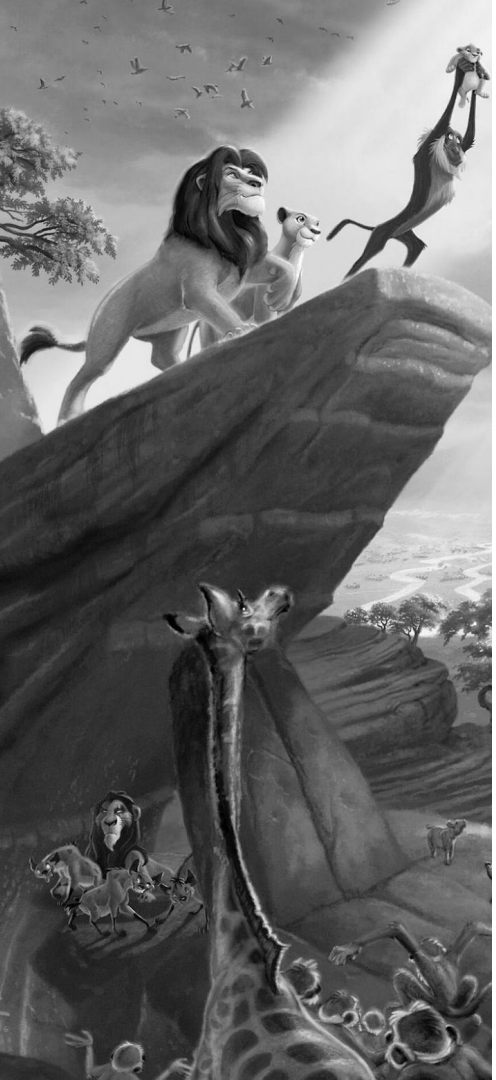






Variable choice

Species associations



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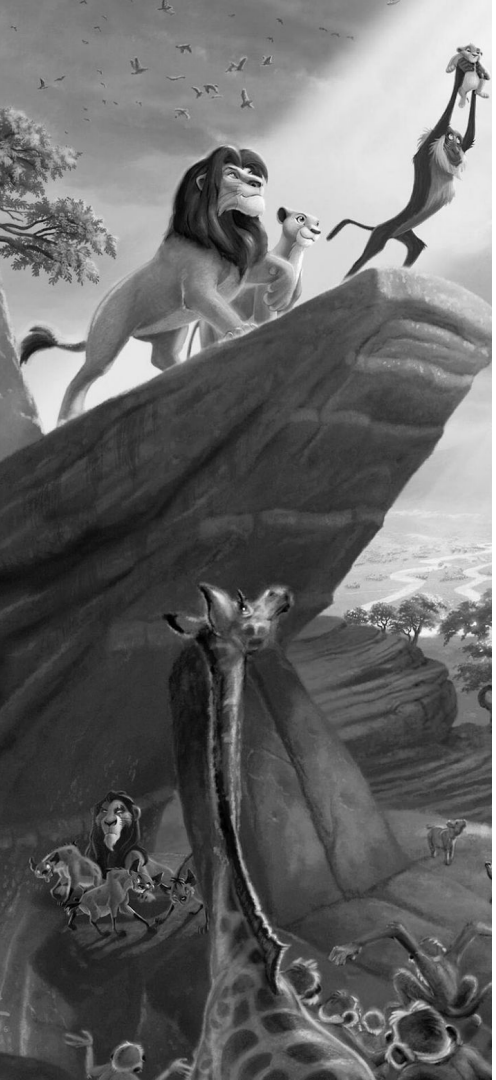
Disentangling biotic interactions, environmental filters, and dispersal limitation as drivers of species co-occurrence

Manuela D'Amen ✉, Heidi K. Mod, Nicholas J. Gotelli, Antoine Guisan

First published: 23 October 2017 | https://doi.org/10.1111/ecog.03148 | Citations: 33

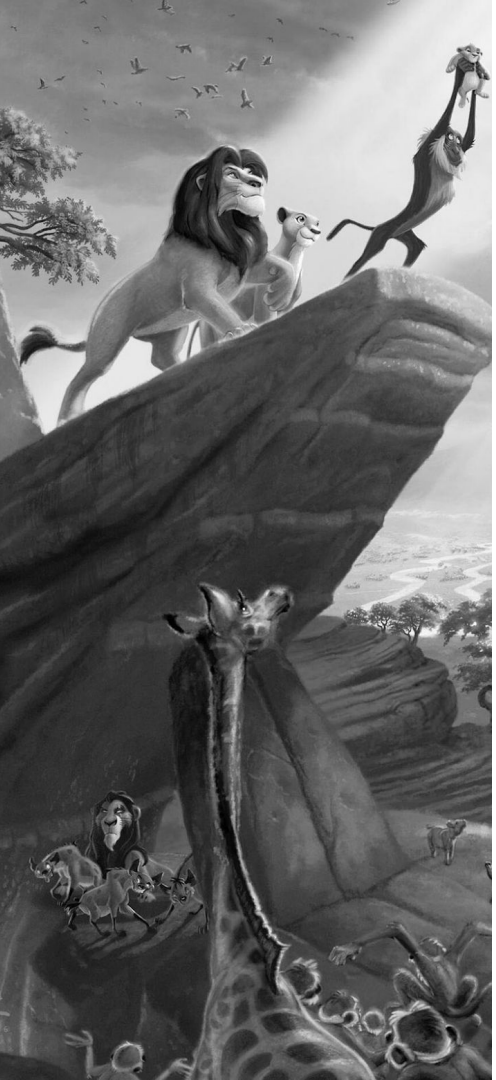


Collinear covariates

Often environmental covariates will be highly collinear

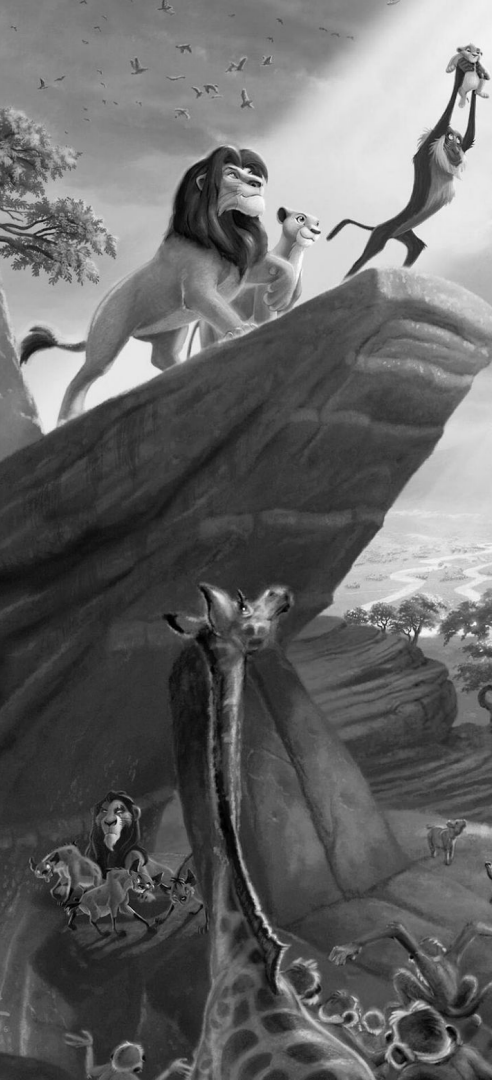
Are you looking at direct effects of the environment?

Or are you trying to explain as much variation as possible….

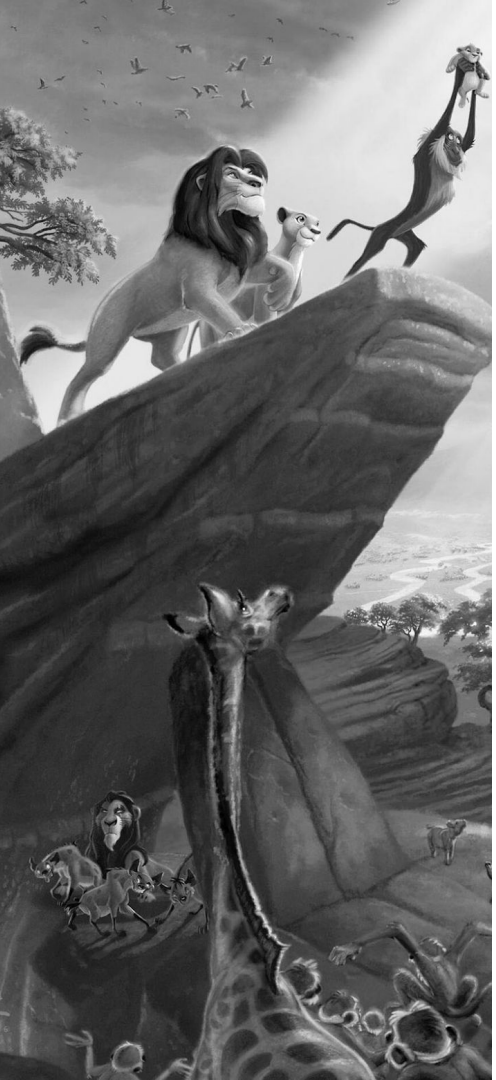


Using Collinear Covariates

We don’t want linear variables that clearly correspond to measurable covariates

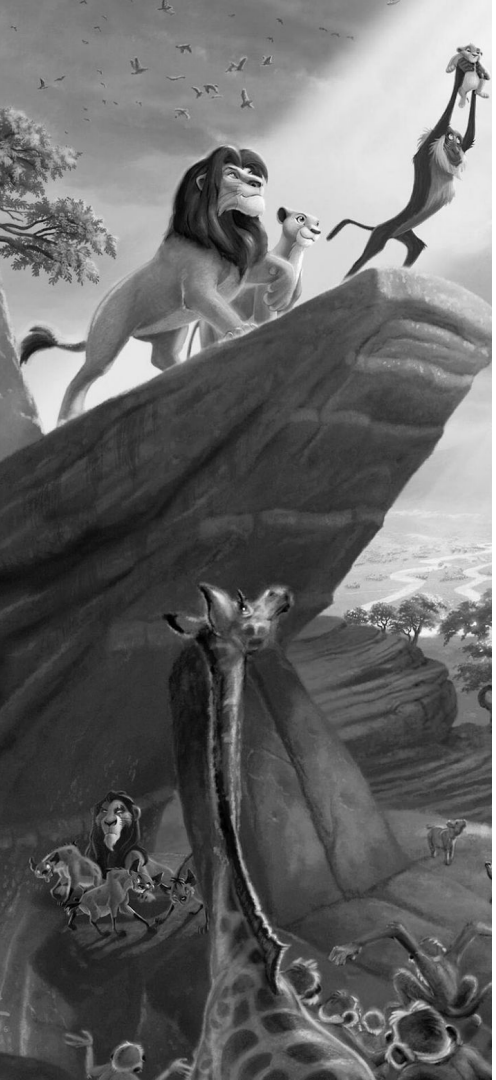


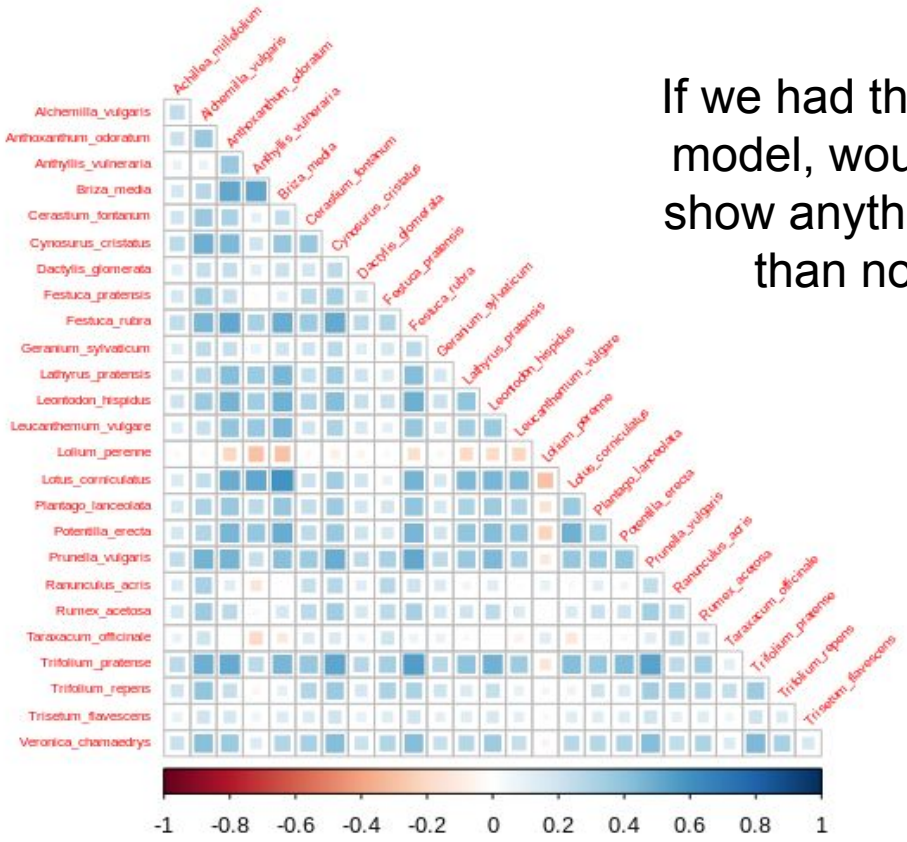
Breakout Session!!



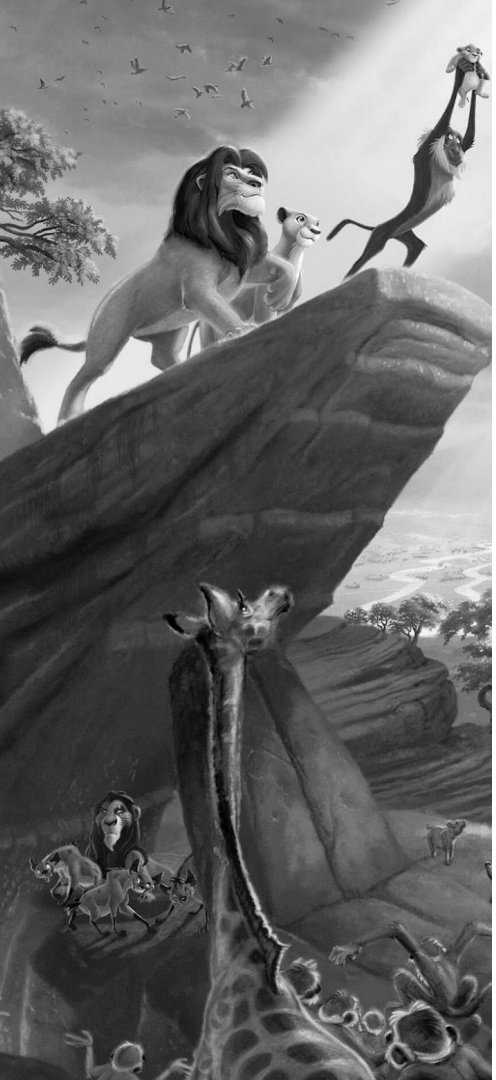
What is a Species Association?

When is it more than a shared response to an environmental covariate?





If we had the perfect model, would these show anything more than noise?



Stats Corner

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