

COMPUTATIONAL ECOLOGY

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2009-09-18

Power Analysis for mixed-effect models in R

The power of a statistical test is the probability that a null hypothesis will be rejected when the alternative hypothesis is true. In lay terms, power is your ability to refine or "prove" your expectations from the data you collect. The most frequent motivation for estimating the power of a study is to figure out what sample size will be needed to observe a treatment effect. Given a set of pilot data or some other estimate of the variation in a sample, we can use power analysis to inform how much additional data we should collect.

I recently did a power analysis on a set of pilot data for a long-term monitoring study of the US National Park Service. I thought I would share some of the things I learned and a bit of R code for others that might need to do something like this. If you aren't into power analysis, the code below may still be useful as examples of how to use the error handling functions in R (`withCallingHandlers`, `withRestarts`), parallel programming using the `snow` package, and linear mixed effect regression using `nlme`. If you have any suggestions for improvement or if I got something wrong on the analysis, I'd love to hear from you.

1 THE STUDY

The study system was cobblebars along the Cumberland river in Big South Fork National Park (Kentucky and Tennessee, United States). Cobblebars are typically dominated by grassy vegetation that include disjunct tall-grass prairie species. It is hypothesized that woody species will encroach onto cobblebars if they are not seasonally scoured by floods. The purpose of the NPS sampling was to observe changes in woody cover through time. The study design consisted of two-stages of clustering: the first being cobblebars, and the second being transects within cobblebars. The response variable was the percentage of the transect that was woody vegetation. Because of the clustered design, the inferential model for this study design has mixed-effects. I used a simple varying intercept model:



where y is the percent of each transect in woody vegetation sampled n times within J cobblebars, each with K transects. The parameter of inference for the purpose of monitoring change in woody vegetation through time is β , the rate at which cover

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changes as a function of time. α , γ , σ^2_γ , and σ^2_y are hyper-parameters that describe the hierarchical variance structure inherent in the clustered sampling design.

Below is the function code used I used to regress the pilot data. It should be noted that with this function you can log or logit transform the response variable (percentage of transect that is woody). I put this in because the responses are proportions (0,1) and errors should technically follow a beta-distribution. Log and logit transforms with Gaussian errors could approximate this. I ran all the models with transformed and untransformed response, and the results did not vary at all. So, I stuck with untransformed responses:

```
Model <- function(x = cobblebars,
  type = c("normal", "log", "logit")){
  ## Transforms
  if (type[1] == "log")
    x$prop.woody <- log(x$prop.woody)
  else if (type[1] == "logit")
    x$prop.woody <- log(x$prop.woody / (1 - x$prop.woody))

  mod <- lme(prop.woody ~ year,
    data = x,
    random = ~ 1 | cobblebar/transect,
    na.action = na.omit,
    control = lmeControl(opt = "optim",
      maxIter = 800, msMaxIter = 800)
    )
  mod$type <- type[1]
  return(mod)
}
```

Here are the results from this regression of the pilot data:

```
Linear mixed-effects model fit by REML
Data: x
      AIC      BIC    logLik
-134.4319 -124.1297  72.21595

Random effects:
Formula: ~1 | cobblebar
      (Intercept)
StdDev:  0.03668416

Formula: ~1 | transect %in% cobblebar
      (Intercept)  Residual
StdDev:  0.02625062 0.05663784

Fixed effects: prop.woody ~ year
              Value Std.Error DF   t-value p-value
(Intercept)  0.12966667 0.01881983 29   6.889896  0.0000
year         -0.00704598 0.01462383 29  -0.481815  0.6336
Correlation:
      (Intr)
year -0.389

Number of Observations: 60
Number of Groups:
      cobblebar transect %in% cobblebar
              6              30
```

2 WE DON'T LEARN ABOUT POWER ANALYSIS AND COMPLEX MODELS

When I decided upon the inferential model the first thing that occurred to me was that I never learned in any statistics course I had taken how to do such a power analysis on a multi-level model. I've taken more statistics courses than I'd like to count and taught my own statistics courses for undergrads and graduate students,

and the only exposure to power analysis that I had was in the context of simple t-tests or ANOVA. You learn about it in your first 2 statistics courses, then it rarely if ever comes up again until you actually need it.

I was, however, able to find a great resource on power analysis from a Bayesian perspective in the excellent book "Data Analysis Using Regression and Multilevel/Hierarchical Models" by Andrew Gelman and Jennifer Hill. Andrew Gelman has thought and debated about power analysis and you can get more from his [blog](#). The approach in the book is a simulation-based one and I have adopted it for this analysis.

3 ANALYSIS PROCEDURE

For the current analysis we needed to know three things: effect size, sample size, and estimates of population variance. We set effect size beforehand. In this context, the parameter of interest is the rate of change in woody cover through time β , and effect size is simply how large or small a value of β you want to distinguish with a regression. Sample size is also set *a priori*. In the analysis we want to vary sample size by varying the number of cobblebars, the number of transects per cobblebar or the number of years the study is conducted.

The population variance cannot be known precisely, and this is where the pilot data come in. By regressing the pilot data using the model we can obtain estimates of all the different components of the variance (cobblebars, transects within cobblebars, and the residual variance). Below is the R function that will return all the hyperparameters (and β) from the regression:

```
GetHyperparam<-function(x,b=NULL){
  ## Get the hyperparameters from the mixed effect model
  fe <- fixef(x)

  if(is.null(b))
    b<-fe[2] # use the data effect size if not supplied

  mu.a <- fe[1]

  vc <- VarCorr(x)
  sigma.y <- as.numeric(vc[5, 2]) # Residual StdDev
  sigma.a <- as.numeric(vc[2, 2]) # Cobblebar StdDev
  sigma.g <- as.numeric(vc[4, 2]) # Cobblebar:transect StdDev

  hp<-c(b, mu.a, sigma.y, sigma.a, sigma.g)
  names(hp)<-c("b", "mu.a", "sigma.y", "sigma.a", "sigma.g")
  return(hp)
}
```

To calculate power we to regress the simulated data in the same way we did the pilot data, and check for a significant β . Since optimization is done using numeric methods there is always the chance that the optimization will not work. So, we make sure the regression on the fake data catches and recovers from all errors. The solution for error recovery is to simply try the regression on a new set of fake data. This function is a pretty good example of using the R error handling function `withCallingHandlers` and `withRestarts`.

```
fakeModWithRestarts <- function(m.o, n = 100, ...){
  ## A Fake Model
  withCallingHandlers({
    i <- 0
```

```

mod <- NULL
while (i < n & is.null(mod)){
  mod <- withRestarts({
    f <- fake(m.orig = m.o, transform = F, ...)
    return(update(m.o, data = f))
  },
  rs = function(){
    i <- i + 1
    return(NULL)
  })
}
if(is.null(mod))
  warning("ExceededIterations")
return(mod)
},
error = function(e){
  invokeRestart("rs")
},
warning = function(w){
  if(w$message == "ExceededIterations")
    cat("\n", w$message, "\n")
  else
    invokeRestart("rs")
})
}

```

To calculate the power of a particular design we run fakeModWithRestarts 1000 times and look at the proportion of significant β values:

```

dt.power <- function (m, n.sims = 1000, alpha=0.05, ...){
  ## Calculate power for a particular sampling design
  signif<-rep(NA, n.sims)
  for(i in 1:n.sims){
    lme.power <- fakeModWithRestarts(m.o = m, ...)
    if(!is.null(lme.power))
      signif[i] <- summary(lme.power)$tTable[2, 5] < alpha
  }
  power <- mean(signif, na.rm = T)
  return(power)
}

```

Finally, we want to perform this analysis on many different sampling designs. In my case I did all combinations of set of effect sizes, cobblebars, transects, and years. So, I generated the appropriate designs:

```

factoredDesign <- function(Elevs = 0.2/c(1,5,10,20),
                           Nlevs = seq(2, 10, by = 2),
                           Jlevs = seq(4, 10, by = 2),
                           Klevs = c(3, 5, 7), ...){
  ## Generates factored series of sampling designs for simulation
  ## of data that follow a particular model.
  ## Inputs:
  ##   Elevs - vector of effect sizes for the slope parameter.
  ##   Nlevs - vector of number of years to sample.
  ##   Jlevs - vector of number of cobblebars to sample.
  ##   Klevs - vector of number of transects to sample.
  ## Results:
  ##   Data frame with where columns are the factors and
  ##   rows are the designs.

  # Level lengths
  lE <- length(Elevs)
  lN <- length(Nlevs)
  lJ <- length(Jlevs)
  lK <- length(Klevs)

  # Generate repeated vectors for each factor
  E <- rep(Elevs, each = lN*lJ*lK)
  N <- rep(rep(Nlevs, each = lJ*lK), times = lE)
  J <- rep(rep(Jlevs, each = lK), times = lE*lN)
  K <- rep(Klevs, times = lE*lN*lJ)

  return(data.frame(E, N, J, K))
}

```

Once we know our effect sizes, the different sample sizes we want, and the estimates of population variance we can generate simulated dataset that are similar to the pilot data. To calculate power we simply simulate a large number of dataset and calculate the proportion of slopes, β that are significantly different from zero (p-value < 0.05). This procedure is repeated for all the effect sizes and sample sizes of interest. Here is the code for generating a simulated dataset. It also does the work of doing the inverse transform of the response variables if necessary.

```
fake <- function(N = 2, J = 6, K = 5, b = NULL, m.orig = mod,
                 transform = TRUE, ...){
  ## Simulated Data for power analysis
  ## N = Number of years
  ## J = Number of cobblebars
  ## K = Number of transects within cobblebars
  year <- rep(0:(N-1), each = J*K)
  cobblebar <- factor(rep(rep(1:J, each = K), times = N))
  transect <- factor(rep(1:K, times = N*J))

  ## Simulated parameters
  hp<-GetHyperparam(x=m.orig)
  if(is.null(b))
    b <- hp['b']
  g <- rnorm(J*K, 0, hp['sigma.g'])
  a <- rnorm(J*K, hp['mu.a'] + g, hp['sigma.a'])

  ## Simulated responses
  eta <- rnorm(J*K*N, a + b * year, hp['sigma.y'])
  if (transform){
    if (m.orig$type == "normal"){
      y <- eta
      y[y > 1] <- 1 # Fix any boundary problems.
      y[y < 0] <- 0
    }
    else if (m.orig$type == "log"){
      y <- exp(eta)
      y[y > 1] <- 1
    }
    else if (m.orig$type == "logit"){
      y <- exp(eta) / (1 + exp(eta))
    }
    else{
      y <- eta
    }
  }

  return(data.frame(prop.woody = y, year, transect, cobblebar))
}
```

Then I performed the power calculations on each of these designs. This could take a long time, so I set this procedure to use parallel processing if needed. Note that I had to re-source the file with all the necessary functions for each processor.

```
powerAnalysis <- function(parallel = T, ...){
  ## Full Power Analysis

  ## Parallel
  if(parallel){
    closeAllConnections()
    cl <- makeCluster(7, type = "SOCK")
    on.exit(closeAllConnections())
    clusterEvalQ(cl, source("cobblebars2.r"))
  }

  ## The simulations
  dat <- factoredDesign(...)

  if (parallel){
    dat$power <- parRapply(cl, dat, function(x,...){
      dt.power(N = x[2], J = x[3], K = x[4], b = x[1], ...)
    }, ...)
  } else {
```

```

    dat$power <- apply(dat, 1, function(x, ...){
      dt.power(N = x[2], J = x[3], K = x[4], b = x[1], ...)
    }, ...)
  }

  return(dat)
}

```

The output of the powerAnalysis function is a data frame with columns for the power and all the sample design settings. So, I wrote a custom plotting function for this data frame:

```

plotPower <- function(dt){
  xyplot(power~N|J*K, data = dt, groups = E,
    panel = function(...){panel.xyplot(...)
      panel.abline(h = 0.8, lty = 2)},
    type = c("p", "l"),
    xlab = "sampling years",
    ylab = "power",
    strip = strip.custom(var.name = c("C", "T"),
      strip.levels = c(T, T)),
    auto.key = T
  )
}

```

Below is the figure for the cobblebar power analysis. I won't go into detail on what the results mean since I am concerned here with illustrating the technique and the R code. Obviously, as the number of cobblebars and transects per year increase, so does power. And, as the effect size increases, observing it with a test is easier.



Author: Todd Jobe <toddjobe@unc.edu>

Date: 2009-09-18 Fri

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Labels: [error handling](#), [mixed-effect models](#), [parallel processing](#), [power analysis](#), [R](#), [simulation](#)

POSTED BY TODDJOBES AT 14:58

190 COMMENTS:

 **Unknown said...**

This is awesome Todd! I'm trying to adapt your parallel processing code for a randomization procedure I'd like to speed up.

Thanks!

Dan McGlinn

OCTOBER 26, 2009 AT 12:25 PM

 **Anonymous said...**

this is really complex

[Online Tutoring](#)

AUGUST 15, 2010 AT 12:02 AM

 **Anonymous said...**

This is remarkable work

[Online Tutoring](#),[Home Tutor](#),[Private Tutor](#)

AUGUST 23, 2010 AT 12:02 PM

 **Unknown said...**

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SEPTEMBER 22, 2010 AT 5:36 AM

 **Shagor said...**

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Thanks a lot!

Pilot license

JANUARY 29, 2012 AT 1:54 PM

 **Anonymous said...**

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its very helpful for the reader.I like your post.Keep it

up.<http://www.technologyexplores.com>

JUNE 18, 2013 AT 10:39 AM

 **Unknown said...**

You have some really good ideas in this article . I am glad I read this. I agree with much of what you state in this article. Your information is thought-provoking, interesting and well-written. Thank you.

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JULY 10, 2013 AT 3:16 AM

 **Unknown said...**

I would like to thank for the efforts you have put in writing this blog. I am hoping the same high-grade blog post from you in the upcoming as well. In fact your creative

writing abilities has inspired me to get my own blog now. Really the blogging is spreading its wings quickly. Your write up is a good example of it.

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AUGUST 6, 2013 AT 9:06 AM

 **Unknown said...**

great blog man, really helped with some of my research.

See secret documents about Nikola Tesla

<http://fbi-about-tesla.blogspot.com>

AUGUST 17, 2013 AT 3:37 PM

 **Unknown said...**

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AUGUST 30, 2013 AT 4:06 AM

 **Anonymous said...**

<http://electricfireplaceheater.org/component/k2/item/66-10-best-electric-fireplace-heaters-by-user-reviews.html> - find best electric fireplace heaters ...

OCTOBER 29, 2013 AT 2:49 PM

 **romunov said...**

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NOVEMBER 6, 2013 AT 8:38 AM

 **laurawkelly said...**

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FEBRUARY 21, 2014 AT 11:53 PM

 **Richard C. Lambert said...**

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 **henris said...**

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MARCH 2, 2016 AT 7:50 AM

 **Unknown said...**

Hi Todd,

Thanks for this post, it's very helpful. A couple of the images are currently unavailable though. I was wondering if you could possibly fix them?

MARCH 5, 2016 AT 3:01 PM

 **Unknown said...**

Excellent info here, I am currently doing some research and found exactly what I was looing for. [my review here](#)

MARCH 10, 2016 AT 6:54 PM

 **Unknown said...**

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MARCH 12, 2016 AT 3:33 AM

 **Unknown said...**

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 **Jubaer said...**

Really Nice post Todd, you just made my problem solved. Thanks again. [web design](#)

APRIL 13, 2016 AT 3:35 PM

 **Karis said...**

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 **Unknown said...**

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JUNE 4, 2017 AT 10:58 AM

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JUNE 26, 2017 AT 1:45 PM

 **Anonymous said...**

Really Good blog post.provided a helpful information about power analysis of mixed model.keep updating...

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AUGUST 8, 2017 AT 6:35 AM

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APRIL 21, 2018 AT 1:35 AM

 **Unknown said...**

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MAY 23, 2018 AT 8:23 AM

 **Unknown said...**

What a great platform that for such nice information website

JUNE 22, 2018 AT 5:12 PM

 **Unknown said...**

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JUNE 25, 2018 AT 5:46PM

 **Unknown said...**

Good work keep it up [website](#)

JUNE 28, 2018 AT 12:04 PM

 **Unknown said...**

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JULY 1, 2018 AT 4:35 AM

 **Anthony Paul said...**

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 **Davidzensaid...**

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NOVEMBER 13, 2018 AT 7:01 AM

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all the time to your blog

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DECEMBER 8, 2018 AT 7:57 AM

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very good information given by your blog.

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 **asad said...**

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 **asad said...**

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 **johnroy said...**

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 **jhon said...**

Thanks very informative. Do check out more info at:

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 **jhon said...**

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DECEMBER 18, 2018 AT 2:55 AM

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DECEMBER 20, 2018 AT 2:15 AM

 **johnroy said...**

Thanks for every other informative blog. The place else may just I am getting that kind of information written in such a perfect way.

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DECEMBER 20, 2018 AT 1:14 PM

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DECEMBER 21, 2018 AT 3:11 AM

 **johnroy said...**

Amazing work.

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DECEMBER 25, 2018 AT 10:51 PM

 **asad said...**

thanks for amazaing information.

robert

DECEMBER 31, 2018 AT 5:29 AM

 **elbert said...**

Very beautiful makeover! This just inspired me.thanks!

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JANUARY 1, 2019 AT 3:01 AM

 **Unknown said...**

It would be better, amazing work . [Click here for this url](#)

JANUARY 9, 2019 AT 8:11 AM

 **Ben Myers said...**

Hey, I read the post entirely and couldn't help thanking you for sharing with us this piece of informative resource. Could you please explain the Best Paints a little more, so I can enhance the knowledgebase of our community website [Sandersreview](#). Of course, you can do it in another post! Any effort appreciated!

JANUARY 12, 2019 AT 6:22 AM

 **Erik Himmel said...**

Good job! Some might find your information to be lacking in-depth analyses. But I'm certainly not one of them. I'm thinking about using some of your information for a whitepaper that I would share via [Spottingpro](#), our website for our community.

JANUARY 13, 2019 AT 3:46 AM

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flipkart netbanking offers,
flipkart new arrival mobiles,
flipkart new customer offer,
flipkart new deals,
flipkart new mobile,
flipkart new mobile offer,
flipkart new mobile phone,
flipkart new offer,
flipkart new offer mobile,
flipkart new offers today,,
flipkart new phone,
flipkart new user offer,
flipkart offer 2017,
flipkart offer citibank,
flipkart offer code
flipkart offer code for mobile,
flipkart offer code today,
flipkart offer coupon code,

flipkart offer for citibank credit card,
flipkart offer for sbi cards,
flipkart offer for sbi debit card,
flipkart offer hdfc card,
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flipkart offer now,
flipkart offer of the day mobile,
flipkart offer of the today,
flipkart offer on 15th august,,
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flipkart offer on sbi debit card,
flipkart offer price,
flipkart offer with citibank,
flipkart offer with sbi debit card,
flipkart offers,
flipkart offers 2016,
flipkart offers and coupons,
flipkart offers coupons 2016,
flipkart offers coupons on mobiles,
flipkart offers for icici debit card,
flipkart offers for today on mobiles,
flipkart offers in 2016,
flipkart offers latest,
flipkart offers memory card,
flipkart offers on bank cards,
flipkart offers on citibank,
flipkart offers on credit cards today,
flipkart offers on electronics,
flipkart offers on hdfc debit card,
flipkart offers on mobiles 2016,
flipkart offers on mobiles april 2015,
flipkart offers on mobiles low price,
flipkart offers this month,
flipkart offers today,
flipkart offers today for mobiles,
flipkart offers today mobile phone
flipkart offers watches,
flipkart offers with banks,
flipkart old mobile sale,
flipkart on,
flipkart online,
flipkart online coupons,
flipkart online deals,
flipkart online mobile,
flipkart online mobile booking,
flipkart online mobile offers,
flipkart online mobile purchase,

flipkart online mobile sale,
flipkart online mobile shop,
flipkart online mobile store,
flipkart online offers today
flipkart online payment offer,
flipkart online payment offers,
flipkart online phone,
flipkart online purchase,
flipkart online shop todays offers,
flipkart online shopping discount
flipkart online shopping discount coupons
flipkart online shopping diwali offers
flipkart online shopping dresses
flipkart online shopping electronics
flipkart online shopping memory card
flipkart online shopping mobile
flipkart online shopping mobile accessories
flipkart online shopping mobile offers
flipkart online shopping mobile phones
flipkart online shopping mobile samsung
flipkart online shopping offers
flipkart online shopping offers today
flipkart online shopping phone,
flipkart online shopping site,
flipkart online shopping smartphone,
flipkart online shopping watches,
flipkart online store,
flipkart online watch,
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FEBRUARY 27, 2019 AT 6:16 AM

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flipkart emi on sbi credit card,
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flipkart emi from debit card
flipkart emi down payment,
flipkart new emi scheme,
flipkart debit card emi kotak,
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flipkart debit card emi yes bank

flipkart emi debit card axis,
flipkart emi process in hindi,
flipkart pay later emi,
flipkart debit card emi 2018,
flipkart emi conditions,
flipkart emi review,
flipkart emi how it works,
flipkart se emi kaise kare,
flipkart emi quora,,
flipkart emi faq,
flipkart emi interest rate,
flipkart emi without interest,
flipkart no cost emi quora,
flipkart emi debit card,
flipkart emi for debit card,
flipkart emi with debit card,
flipkart emi debit card sbi
flipkart emi debit card mobile,
flipkart emi on debit card sbi,
flipkart emi using debit card,
flipkart emi in debit card,
flipkart emi debit card icici,
flipkart debit card emi sms number,
flipkart emi debit card axis bank,
flipkart emi by debit card,
flipkart hdfc debit card emi offer,
flipkart par debit card se emi,
flipkart give emi on debit card,
flipkart emi through sbi debit card,
emi on sbi debit card in flipkart,
emi on debit card at flipkart,
flipkart debit card emi banks,
flipkart debit card emi number,
flipkart debit card emi apply,
flipkart emi with sbi debit card,
flipkart debit card emi sbi sms,
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flipkart par debit card se emi kaise kare,
flipkart debit card emi message,
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flipkart debit card emi not showing,
flipkart debit card emi laptop,
flipkart debit card emi idbi,
flipkart debit card emi bob,
flipkart debit card emi news,
flipkart emi without debit card,
flipkart debit card emi facility,

flipkart emi debit card option,
flipkart debit card emi limit,
flipkart no cost emi hdfc debit card,
flipkart debit card emi iob,
flipkart debit card emi how,
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flipkart debit card emi kaise kare,
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flipkart emi on debit card icici,
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flipkart debit card emi in hindi,
flipkart debit card emi option sbi,
flipkart debit card emi activation,
flipkart debit card emi video,
flipkart emi debit card check,
flipkart emi on debit card quora,
flipkart emi debit card hdfc,
flipkart debit card emi option hdfc,
flipkart emi debit card kotak,
flipkart debit card emi yes bank,
flipkart debit card emi eligibility icici,
flipkart debit card emi hdfc eligibility,
flipkart debit card emi sbi in hindi,
flipkart emi on debit card hindi,
flipkart sbi debit card emi eligibility check sms,
flipkart emi on debit card terms and conditions,
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flipkart hdfc debit card emi eligibility,
flipkart debit card emi indusind bank,
flipkart emi debit card sbi,
flipkart emi debit card mobile,
flipkart emi debit card icici,
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flipkart emi debit card option,
hdfc debit card emi offers flipkart,
flipkart emi debit card hindi,
flipkart emi debit card eligibility,
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FEBRUARY 27, 2019 AT 6:16 AM

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MARCH 31, 2019 AT 6:26 AM

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cashback january, flipkart cashback offers on home, flipkart phonepe cashback offer, flipkart credit card offers, flipkart republic day sale offers, flipkart promo codes, flipkart cashback on refrigerators, flipkart upcoming offers in 2018, flipkart sbi offers, flipkart hdfc offer on mobiles, flipkart sbi offer cashback, flipkart debit card offers, flipkart phonepe offers, flipkart cashback coupons, flipkart citi bank offer, flipkart coupons 2018, flipkart citi bank offer on electronics, flipkart cashback on air conditioners, flipkart mobiles offers, flipkart iphone offers, flipkart hdfc bank offers, flipkart offers today, flipkart discounts on laptops flipkart exchange offers, flipkart sbi cashback offer, big trillion day offers flipkart ,flipkart citi bank cashback offers, flipkart cashback offers 2018, flipkart hdfc offers flipkart axis bank offers, flipkart air conditioner offers flipkart offers on televisions, flipkart refrogrations offers, flipkart sbi offer, flipkart daily deals, flipkart phonepe cashback offers, flipkart cashback offers, flipkart offers on laptops, flipkart new year cashback offers, flipkart emi offers, flipkart sbi offers on electronics

MARCH 31, 2019 AT 6:26 AM

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APRIL 18, 2019 AT 4:37 AM

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2018, flipkart cashback phonepe, flipkart hdfc offer august 2018, flipkart icici offers

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APRIL 18, 2019 AT 4:38 AM

 **vinith said...**

This is an excellent post I seen thanks to share it. It is really what I wanted to see hope in future you will continue for sharing such a excellent post.

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MAY 24, 2019 AT 6:00 AM

 **Anonymous said...**

Excellent Blog! I would like to thank for the efforts you have made in writing this post. I am hoping the same best work from you in the future as well. I wanted to thank you for this websites! Thanks for sharing. Great websites! Now please do visit our website which will be very helpful.

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JUNE 4, 2019 AT 4:52 AM

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[HDFC Credit Ca rd /Debit Card Offers 10% Instant Cashback](#)

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[Citi Bank Credit Card /Debit Card Offers 10% Instant Cashback](#)

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[Axis Bank Credit Card /Debit Card Offers 10% Instant Cashback \(Extra 5% on Axis Buzz Cards\)](#)

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JUNE 9, 2019 AT 5:34 AM

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Flat Rs. 4000 instant discount on transactions made using at Flipkart,
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Diwali Festive Sale - Flipkart
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10% Off on Cooling Days at Flipkart on SBI Credit Cards | SBI Card
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TV & appliances Sale (Axis Bank Offer) at Flipkart,
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Offer Details - Flipkart,
SBI Debit Card Offer at Flipkart,
Extended Warranty on Appliances - Flipkart,
Ganesh Chaturthi Festive Offers - Flipkart,
EMI on Debit Cards - Flipkart,
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HDFC Debit Cards - Flipkart,
ICICI Debit Cards - Flipkart,
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Explore New & Latest Mobiles of this season - Flipkart
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Flipkart Cashback offers on Footwear ,
Flipkart Cashback offers on Accessories,
Flipkart Cashback offers on Other Products ,
Microwave oven – Get 20% to 55% offer,
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Flipkart Cashback
Flipkart offers 2017
Flipkart SBI Offer
flipkart cashback offers
Flipkart Vouchers

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Flipkart cashback Coupons
flipkart offers
flipkart electronics offers
flipkart Clothing Offers
flipkart Air Conditioners

Flipkart Bank Cashback,Cashback Offers
AXIS Bank:10% discount Cashback
ICICI Bank :15% Cashback Discount
Yes bank:10% Cashback Discount
State Bank of India:10% Cashback Discount
HDFC Bank:10% Cashback Discounts
CITI Bank:10% Cashback Discounts
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JUNE 9, 2019 AT 5:35 AM

 **Unknown said...**

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JUNE 9, 2019 AT 4:51 PM

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flipkart sbi offer,
flipkart offer with sbi card,
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flipkart sbi credit card offers,
flipkart sbi debit card offer,

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flipkart hdfc credit card offer,
flipkart hdfc bank offer,
flipkart hdfc debit card emi,
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