

# User:Yamaha5/Bug of PDF

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< User:Yamaha5

## testing

test

```
library(caTools) # external package providing write.gif function
jet.colors <- colorRampPalette(c("#00007F", "blue", "#007FFF", "cyan", "#7FFF7F",
                                "yellow", "#FF7F00", "red", "#7F0000"))

m <- 1200 # define size
C <- complex(real=rep(seq(-1.8,0.6, length.out=m), each=m),
             imag=rep(seq(-1.2,1.2, length.out=m), m))
C <- matrix(C,m,m) # reshape as square matrix of complex numbers
Z <- 0 # initialize Z to zero
X <- array(0, c(m,m,20)) # initialize output 3D array
for (k in 1:20) { # loop with 20 iterations
  Z <- Z^2+C # the central difference equation
  X[,,k] <- exp(-abs(Z)) # capture results
}
write.gif(X, "Mandelbrot.gif", col=jet.colors, delay=100)
```

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