

TITLE

SUBTITLE

*by*

*Name*

TBD

Copyright © 2021 Name

All rights reserved. No part of this publication may be reproduced, stored or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning, or otherwise without written permission from the publisher. It is illegal to copy this book, post it to a website, or distribute it by any other means without permission.

First edition, 2021

ISBN XYZ

Published by TBD

# Contents

```

using Distributions

function thompson_sampling( $\alpha$ ,  $\beta$ , apply; T=100)
    for t in 1:T
         $\theta$  = rand.(Beta.( $\alpha$ ,  $\beta$ ))
        x = argmax( $\theta$ )
        r = apply(x)
         $\alpha$ [x],  $\beta$ [x] = ( $\alpha$ [x] + r,  $\beta$ [x] + 1 - r) # Comment
    end
    return Beta.( $\alpha$ ,  $\beta$ )
end

```

# Bibliography