



USING .DEB BINARIES TO TEST FOR R 4.0.0

TAKING ADVANTAGE OF ROCKER AND PPAS

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R⁴ Video Lightning Talk

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USING ROCKER WITH PPAS FOR FUN AND PROFIT

INSTALLING R PACKAGES NOW SIMPLE, FAST, EASY AND RELIABLE

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Intro/Overview

What are Rocker and Docker

What are PPAs

Installing *all of* tidyverse and rstan with one command

[Slides](#) and [video](#) available

Using R 4.0.0 pre-release

- Same Rocker container 'rocker/r-ubuntu:18.04'
- Combined with new PPA for R 4.0.0
- Allows easy non-invasive *use* and *testing* of R 4.0.0
- We made binaries available based on
 - first alpha on 2020-03-26
 - second alpha on 2020-04-02
 - first beta on 2020-04-09
 - likely one rc on 2020-04-16
 - then release on 2020-04-24

Using Rocker with 18.04

```
## launch current Ubuntu LTS 18.04 as a Rocker container
## here dkrr is a simple bash alias defined as
## dkrr='docker run --rm -ti -v$(pwd):/work -w /work'
dkrr rocker/r-ubuntu:18.04 bash
## update inside container, update to current repo state
apt-get update && apt-get dist-upgrade -y
## then add the edd/r-4.0 PPA
add-apt-repository -y ppa:edd/r-4.0
## upgrade again
apt-get dist-upgrade -y
```

Using Rocker with 20.04

```
## launch current Ubuntu LTS 20.04 as a Rocker container
## here dkrr is a simple bash alias defined as
## dkrr='docker run --rm -ti -v$(pwd):/work -w /work'
dkrr rocker/r-ubuntu:20.04 bash
## update inside container, update to current repo state
apt-get update && apt-get dist-upgrade -y
## the edd/r-4.0 PPA was already added, no next step
```

Test *Your Package* Using Rocker

```
cd pkgkitten  ## using a simple low-dependends package
R CMD build
R CMD check pkgKitten_0.1.5.tar.gz
## plus helpful command options
```

Because Ubuntu LTS 20.04 'Focal' will be out soon

- We made a matching new container `rocker/r-ubuntu:20.04`
- (Which we demo'ed two slides ago)
- No Rutter PPA yet, will be add "in due course"
- But has `edd/r-4.0` so you can test now
- And add depends for your package as needed

THANK YOU!

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