



DISASTER RECOVERY IS JUST A SURPRISE DATA MIGRATION



JAMES HUNT

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<https://github.com/jhunt>

<https://jameshunt.us>

♥ DEVOPS DAYS BUFFALO

THANK YOU



JAMES HUNT

@iamjameshunt

To: James
From: CFP Board
Subject: Your Talk Submission

Dear James,

I regret to inform you that your talk,

**Tarballs and TARDISes: The Role of
the POSIX TAR format in Time Travel**

has not been accepted for USENIX '18.
Unfortunately, we do not feel that your
subject benefits the UNIX ecosystem at this
time.

Thanks,
The CFP Board

To: Mr. Hunt
From: ???
Subject: CFP Announcement!

Dear Mr. Hunt,

It is with a heavy heart that I write to inform
you that your talk submission,

**1.21 Jiggabytes: The Application of
Amazon S3 Blobstore to the Flux
Capacitor Problem and the Time
Traveler's Dilemma**

has regrettably not been accepted for our
upcoming forum. Best of luck to you in the past,
present, and future.

~ Time Traveler's Forum 2173

To: James Q. Hunt
From: no-reply@qsec
Subject: Re: Your Talk Submission

Dear James,

We regret to inform you that we are unable to invite you to speak at QSEC2019 – International Conference on Quantum Systems in Extreme Conditions, as your talk,

Time Loops and Cloud Storage

does not meet our criteria for scientific rigor or academic integrity.

Yours,
QSEC CFP Committee

To: J. Hunt
From: Watchmakers' Summit
Subject: CFP Process Results

Dear J. ,

Your talk,

**The Application of Compression
and Archival Formats to travel
in n-dimensional Space and Time**

has not been accepted to Watchmakers'
Summit '17. That is not what this
conference is about.

THEOREM:

DATA BACKUPS

ARE INDISTINGUISHABLE FROM

TIME TRAVEL

PROOF:

**IF WE HAD A TIME MACHINE,
WE WOULD NOT
NEED BACKUPS**



FUNDAMENTALS OF DATA PROTECTION

TARGET

TARGET

A DATA SYSTEM

- FILESYSTEM
- RELATIONAL DB
- NoSQL DB
- KEY-VALUE STORE
- ETC...

STORE

CLOUD STORAGE

- AMAZON S3
- AZURE BLOBSTORE
- GOOGLE BLOBSTORE
- WEBDAV
- BACKBLAZE
- ETC.

STORE

TARGET

ARCHIVE

STORE



BASELINE OPERATIONS

TARGET



ARCHIVE

`pgdump`
`mysqldump`
`tar -c`
`etc.`

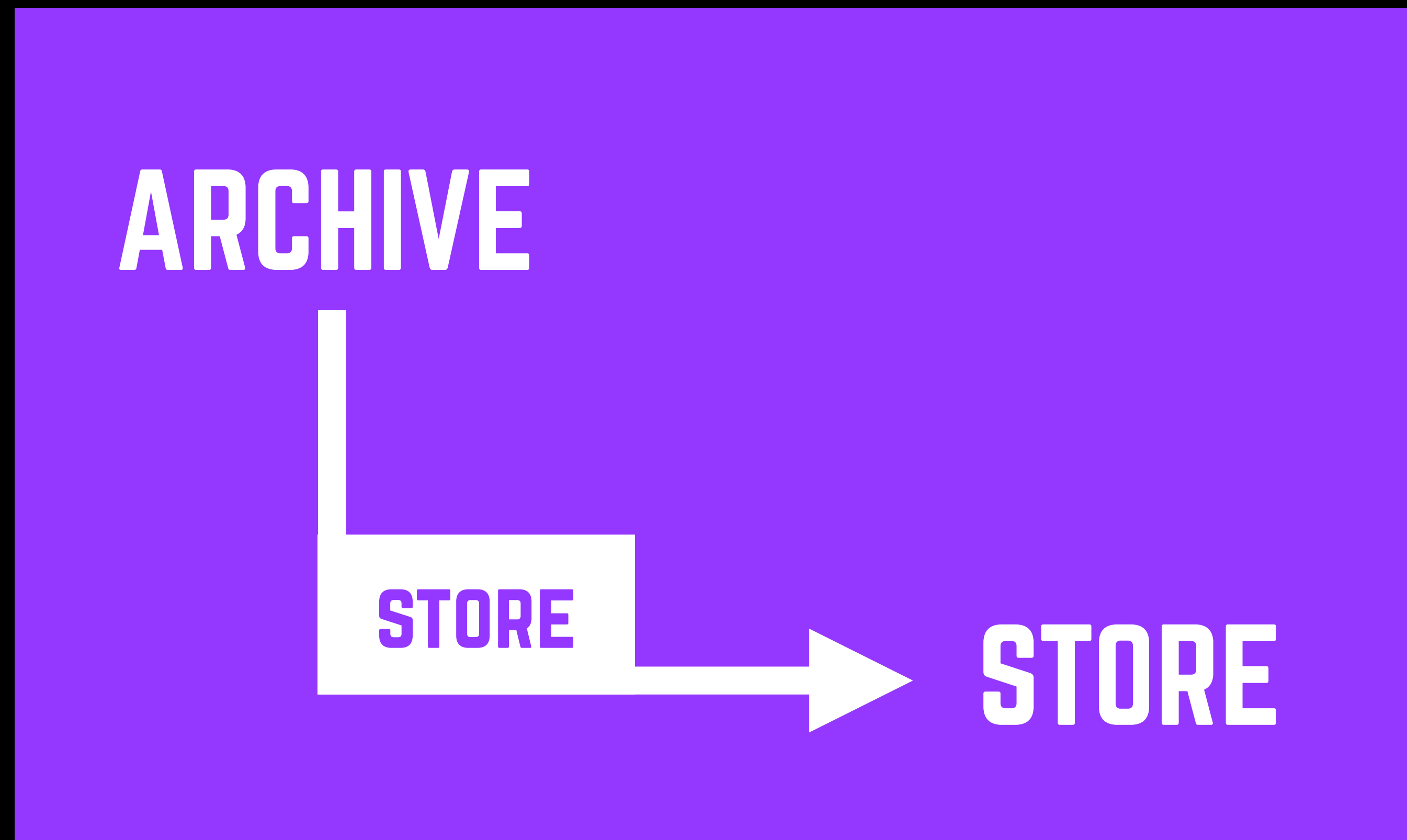
TARGET

IMPORT

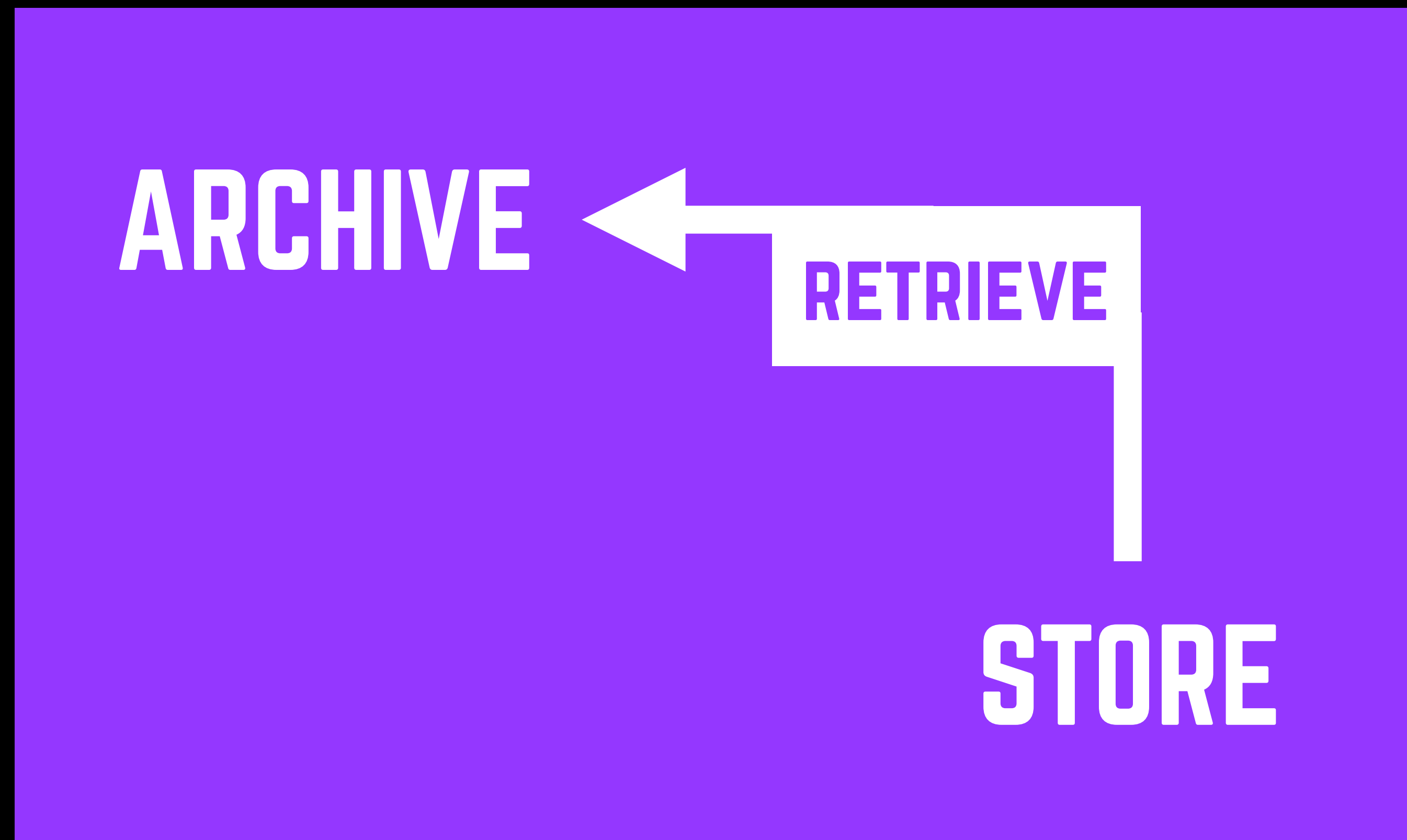
ARCHIVE

```
psql  
mysql  
tar -x  
etc.
```

PUT **s3 put**
 /webdav
 etc.



GET **s3 get**
 /webdav
 etc.



TARGET

EXPORT

ARCHIVE

TARGET

IMPORT

ARCHIVE

ARCHIVE

STORE

STORE

ARCHIVE

IMPORT

STORE



COMPOSING FUNDAMENTALS

WARNING:

BOXES AND ARROWS

AHEAD

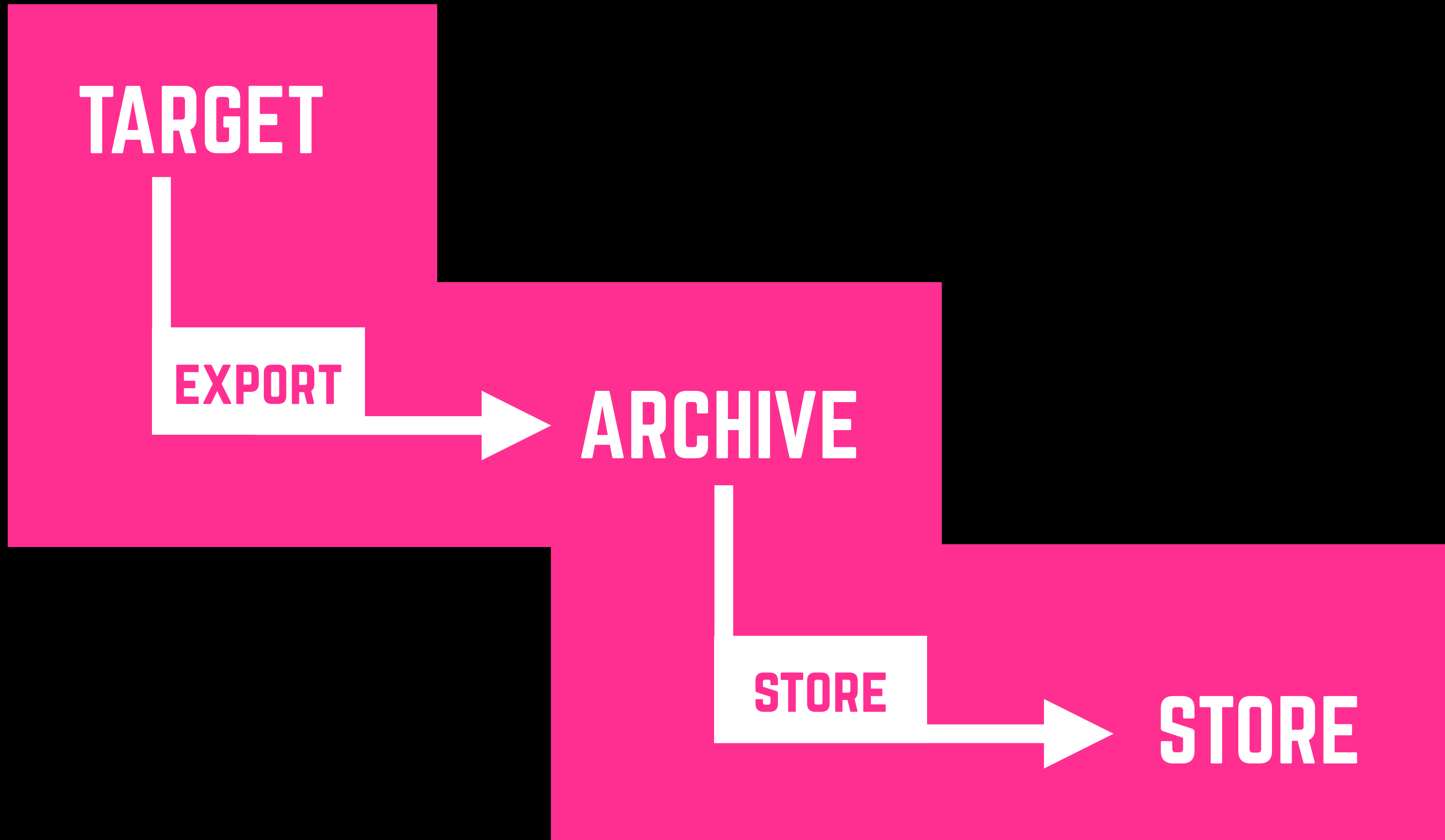
TARGET

EXPORT

ARCHIVE

STORE

STORE



“BACKUP”

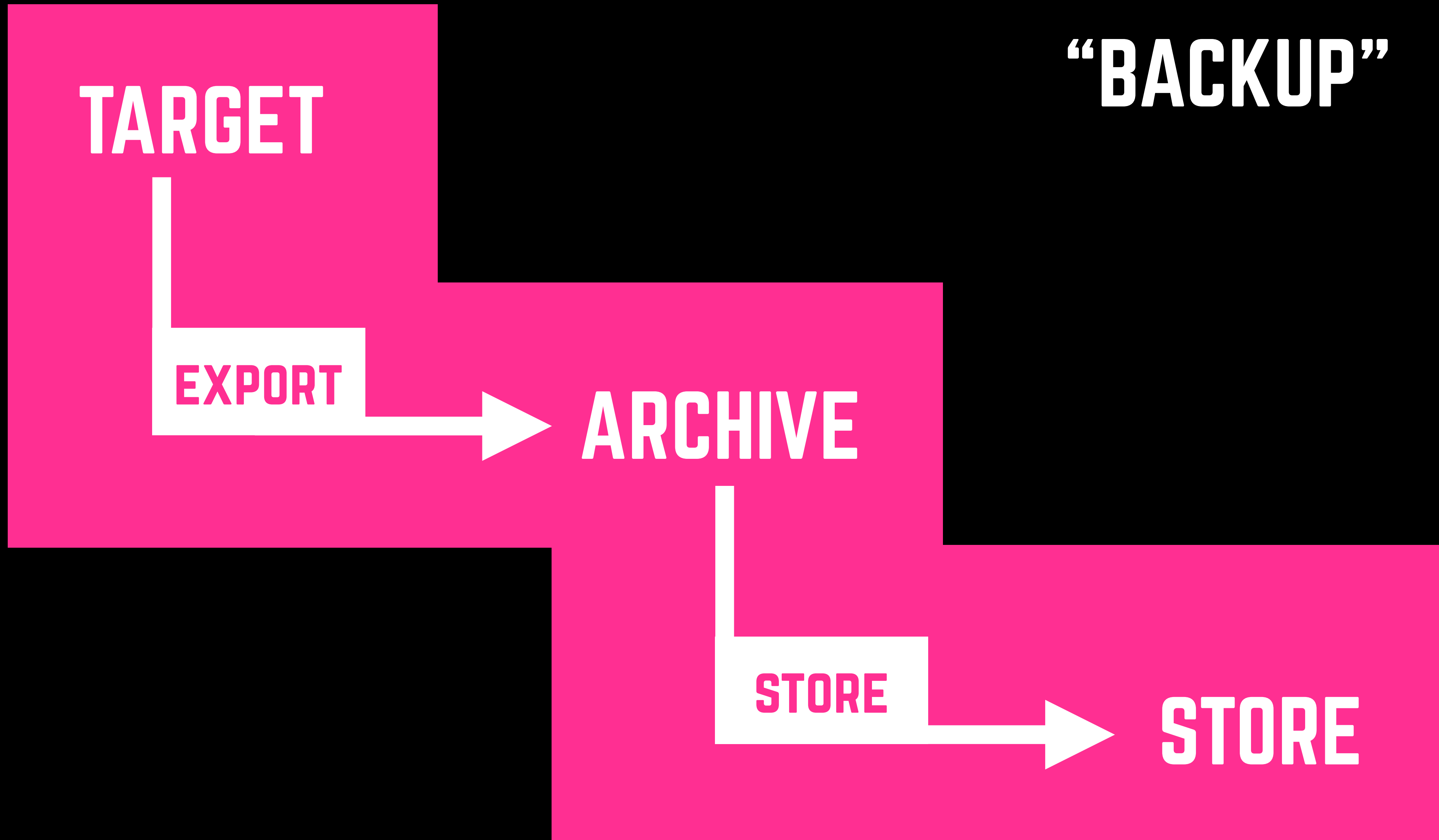
TARGET

EXPORT

ARCHIVE

STORE

STORE



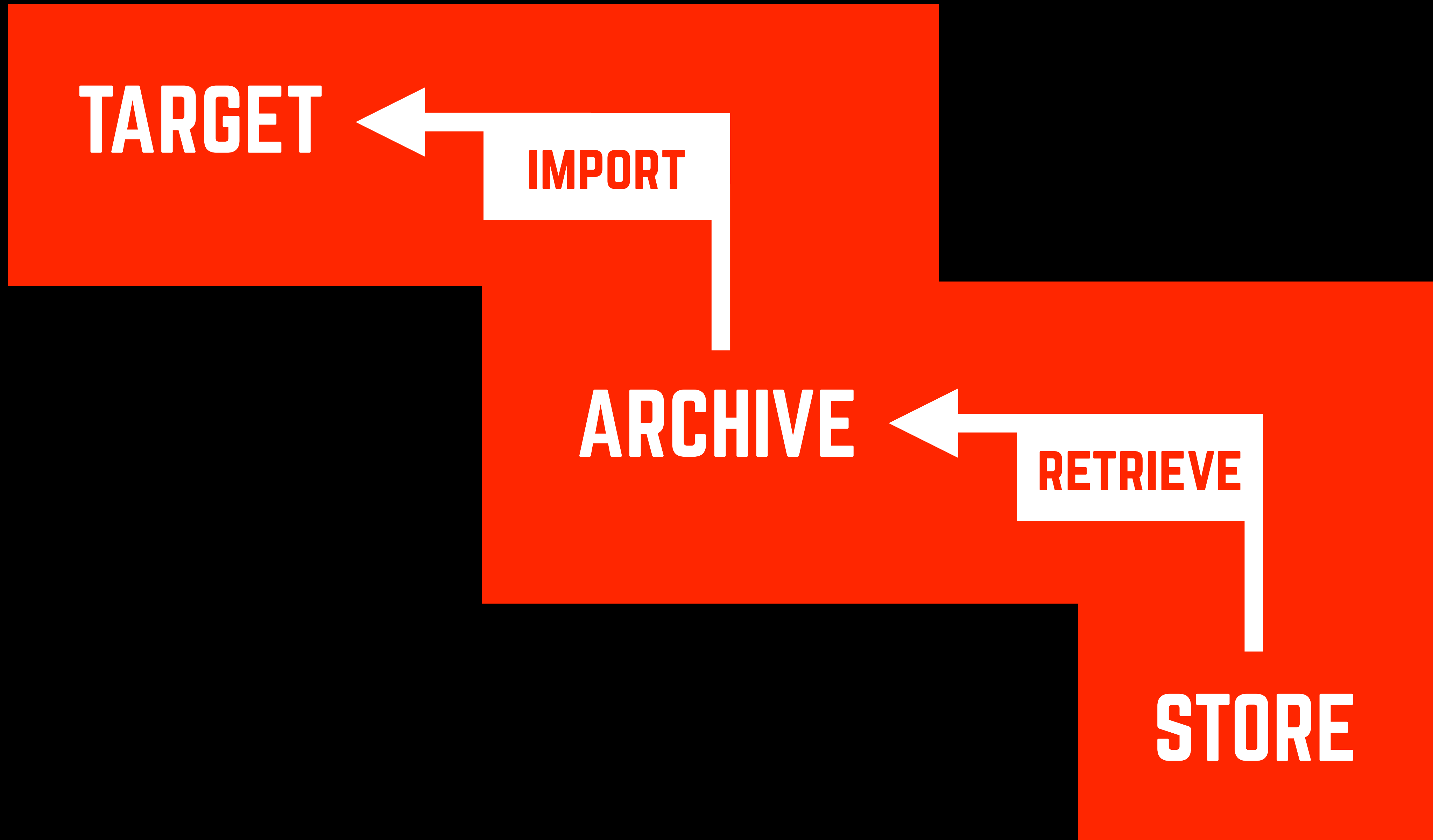
TARGET

IMPORT

ARCHIVE

RETRIEVE

STORE



TARGET

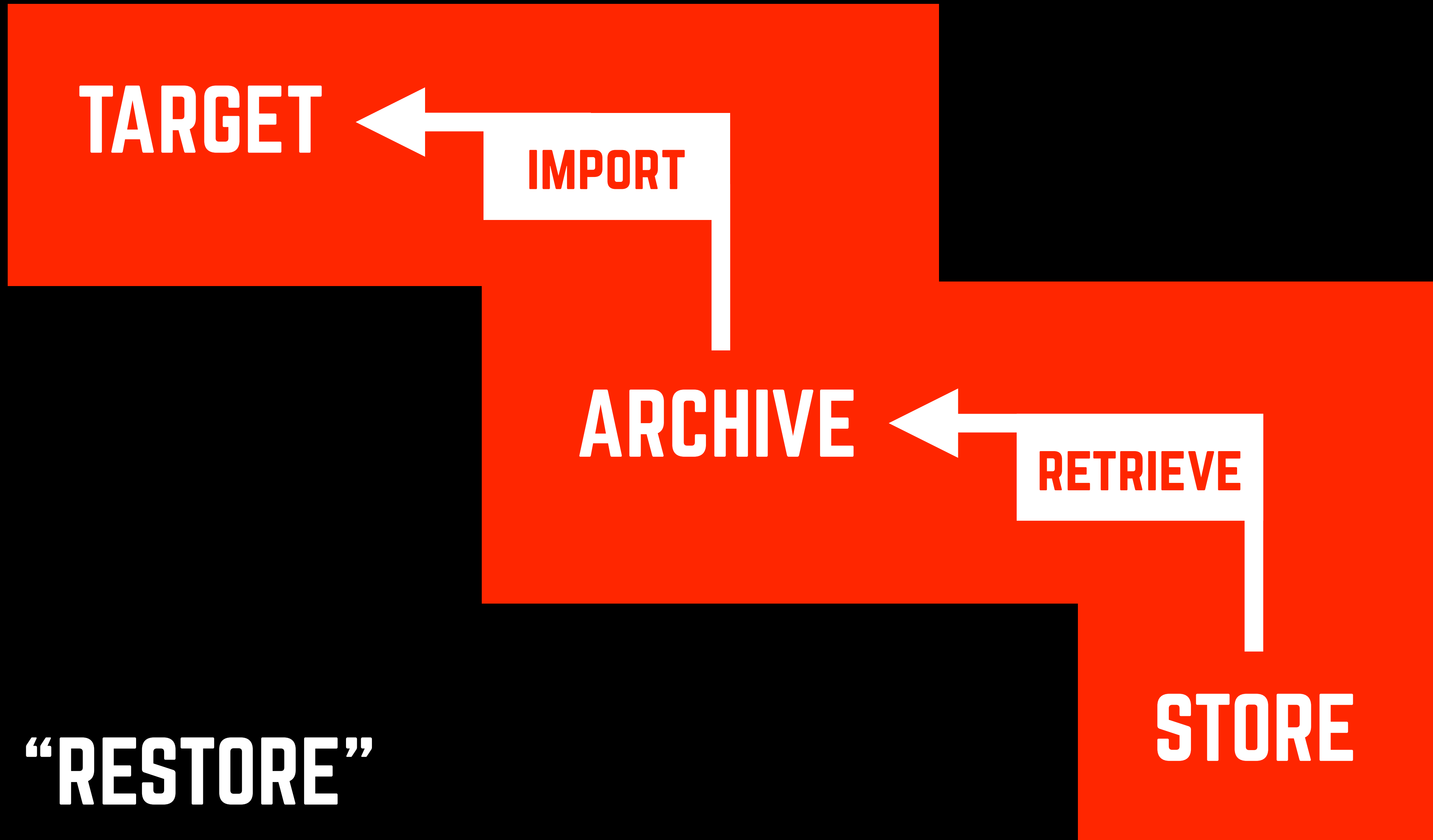
IMPORT

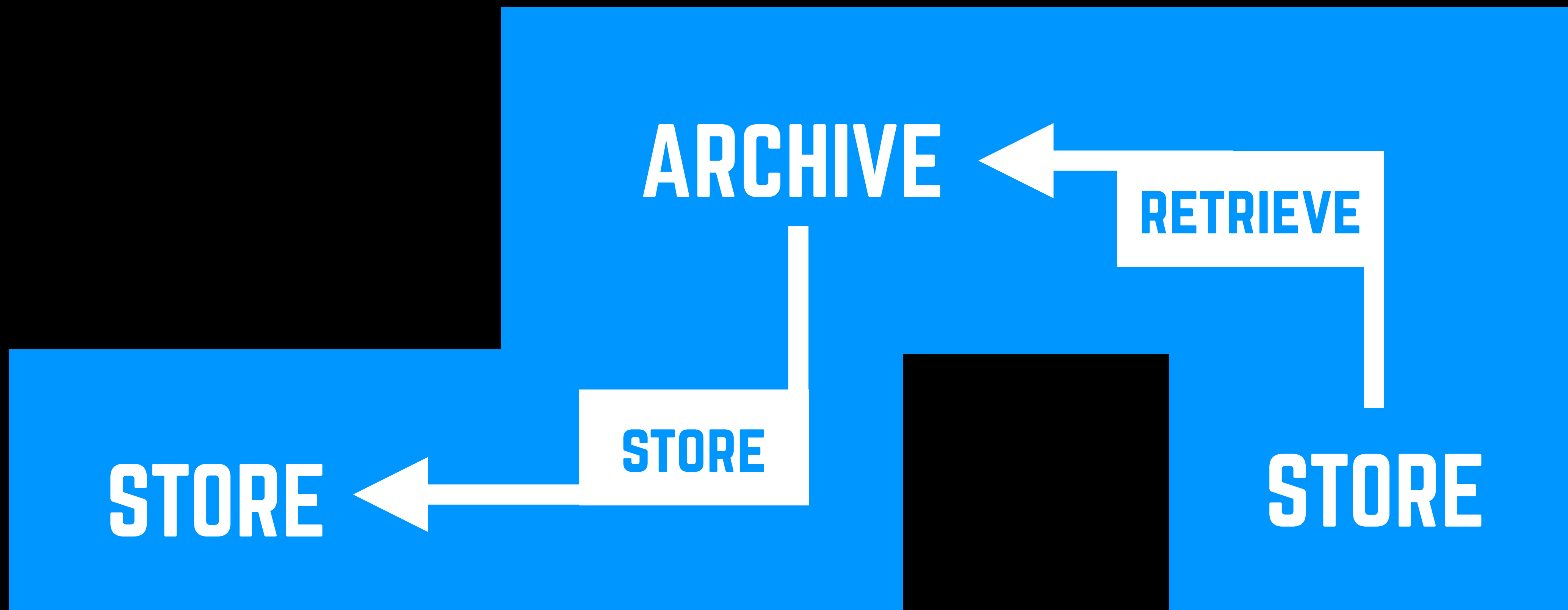
ARCHIVE

RETRIEVE

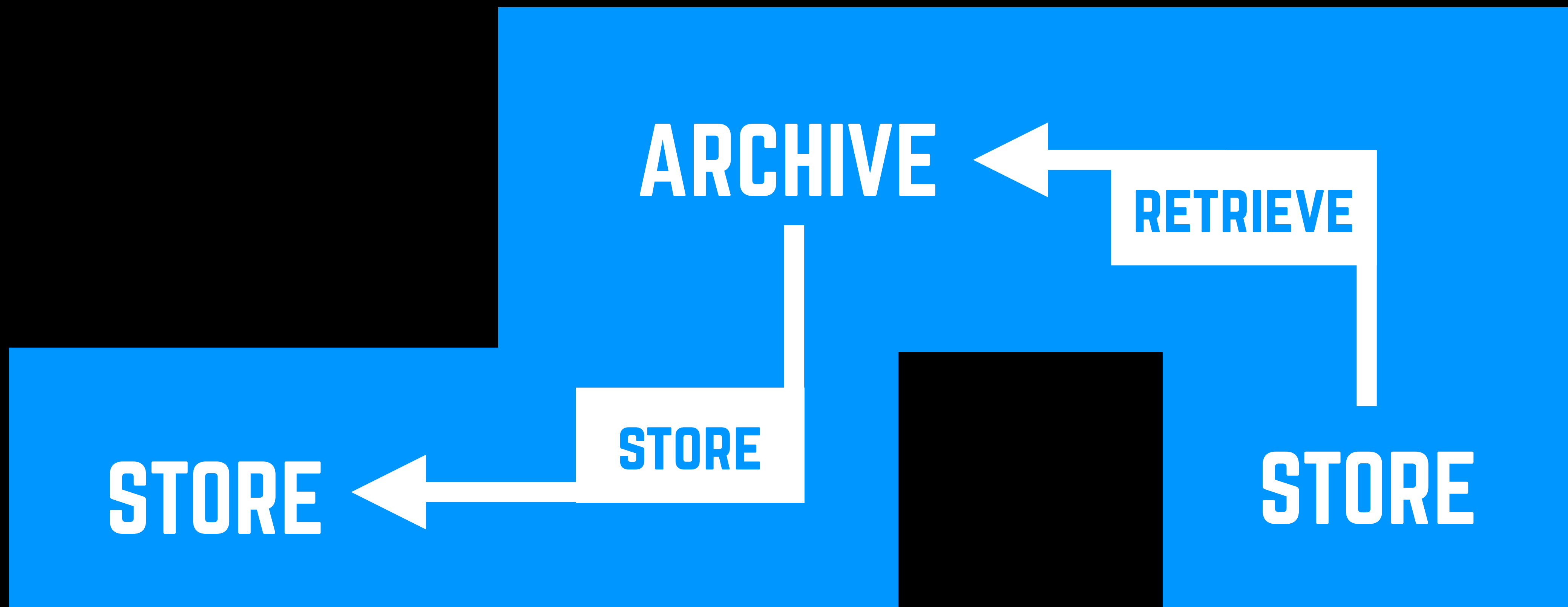
STORE

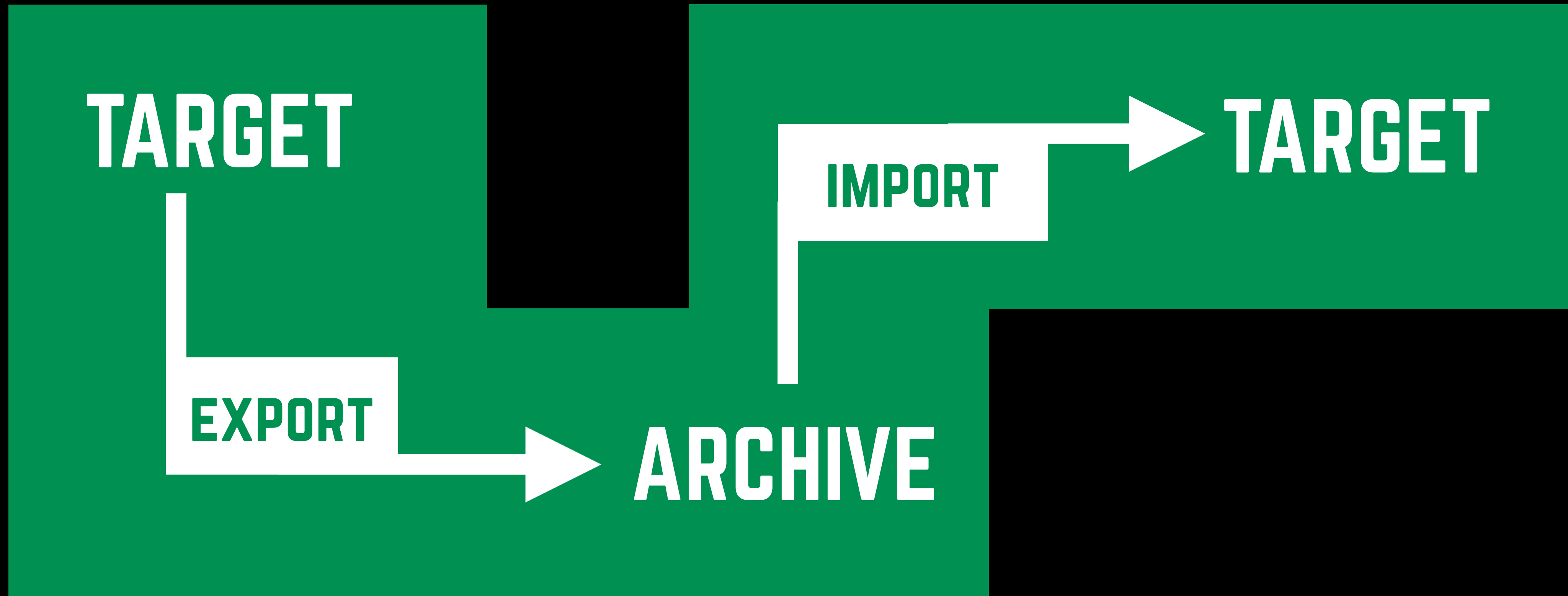
“RESTORE”

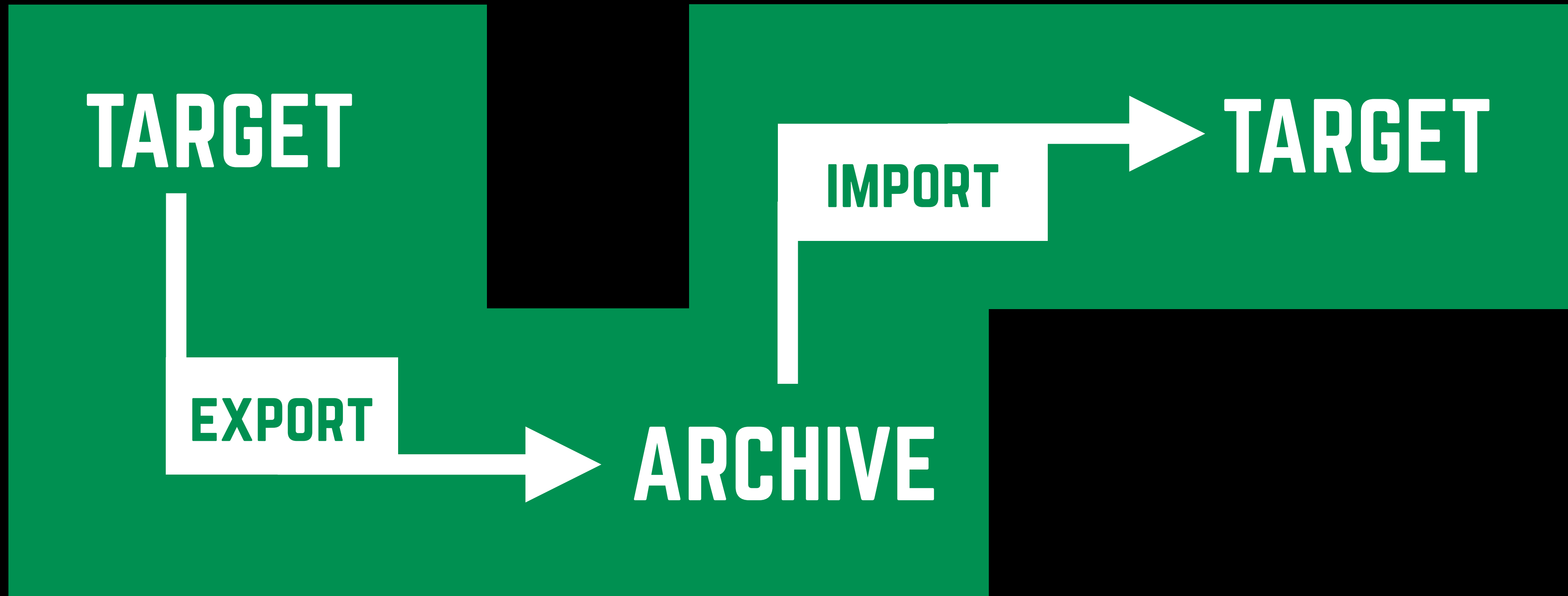




“STORAGE MIGRATION”





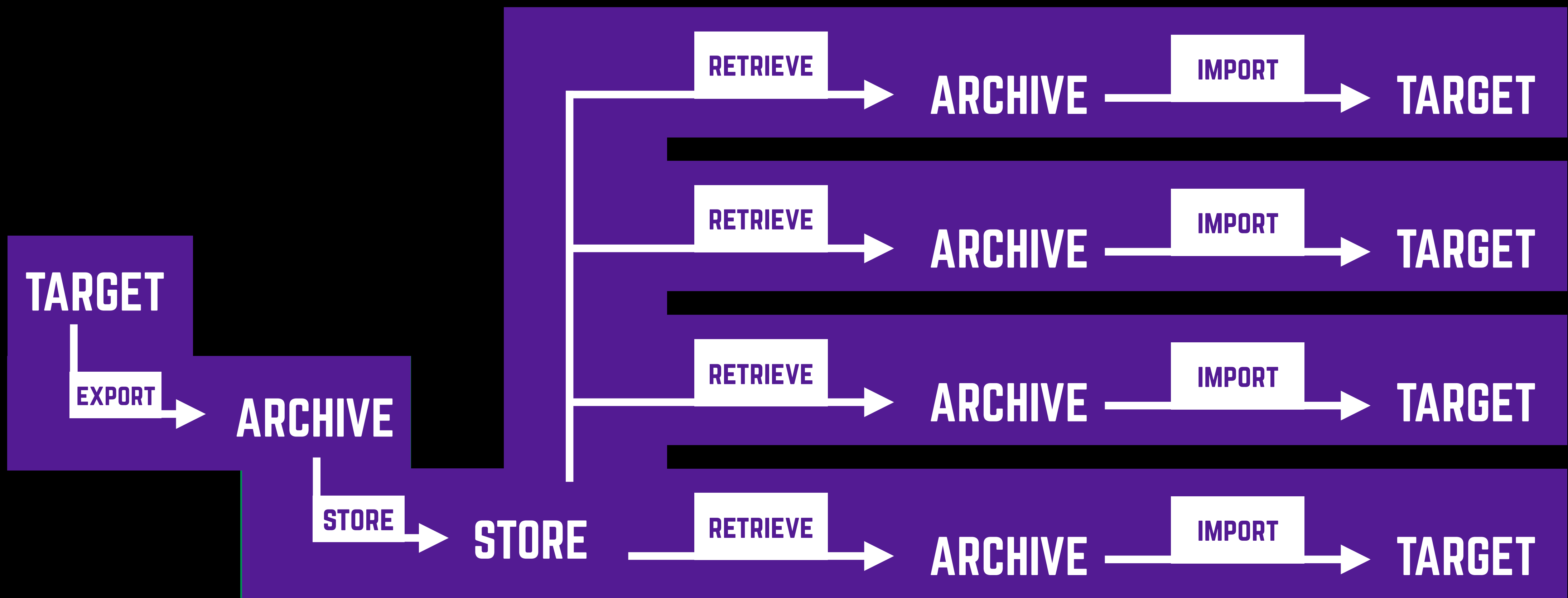


“DATA MIGRATION”

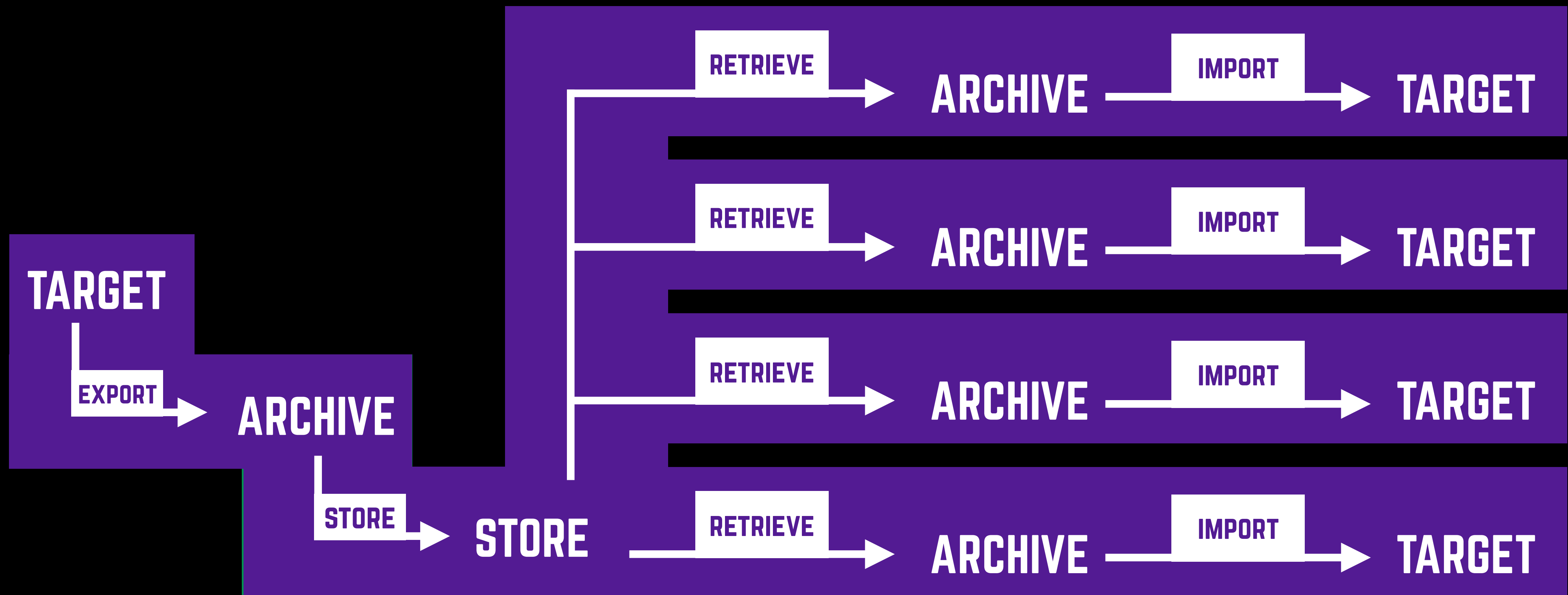


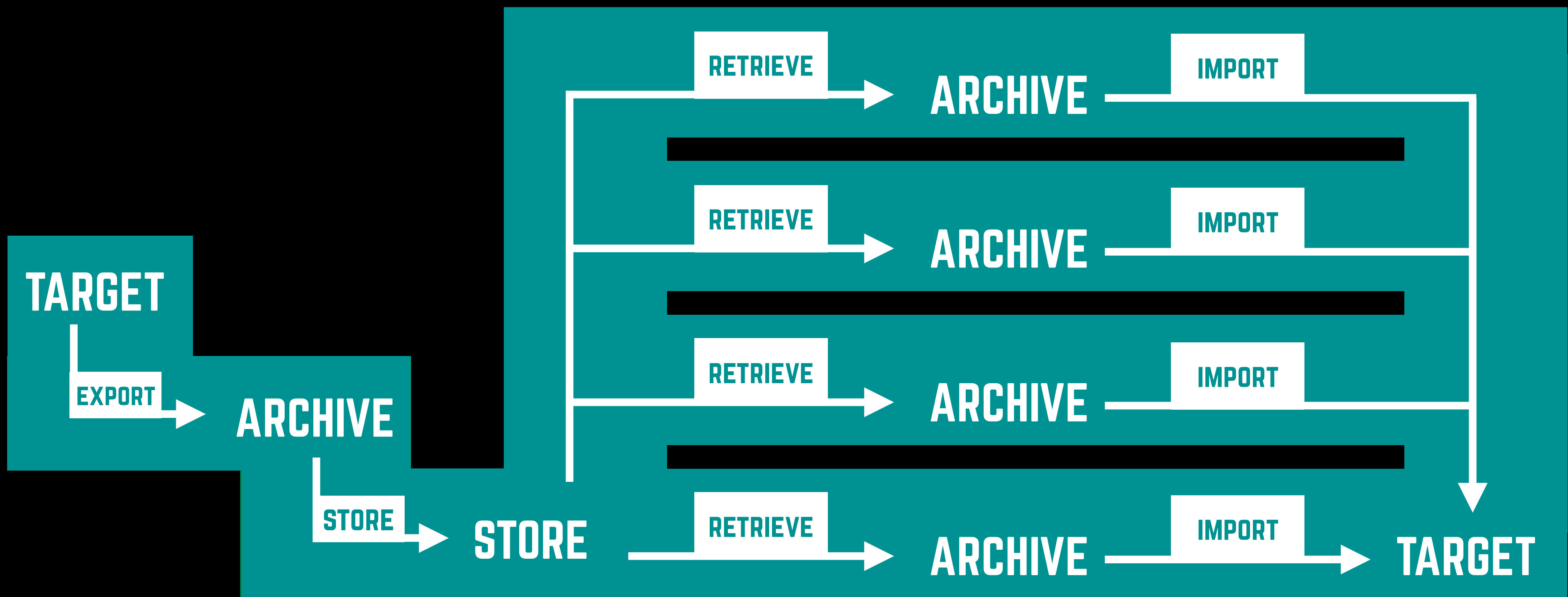


ALSO
“DATA MIGRATION”

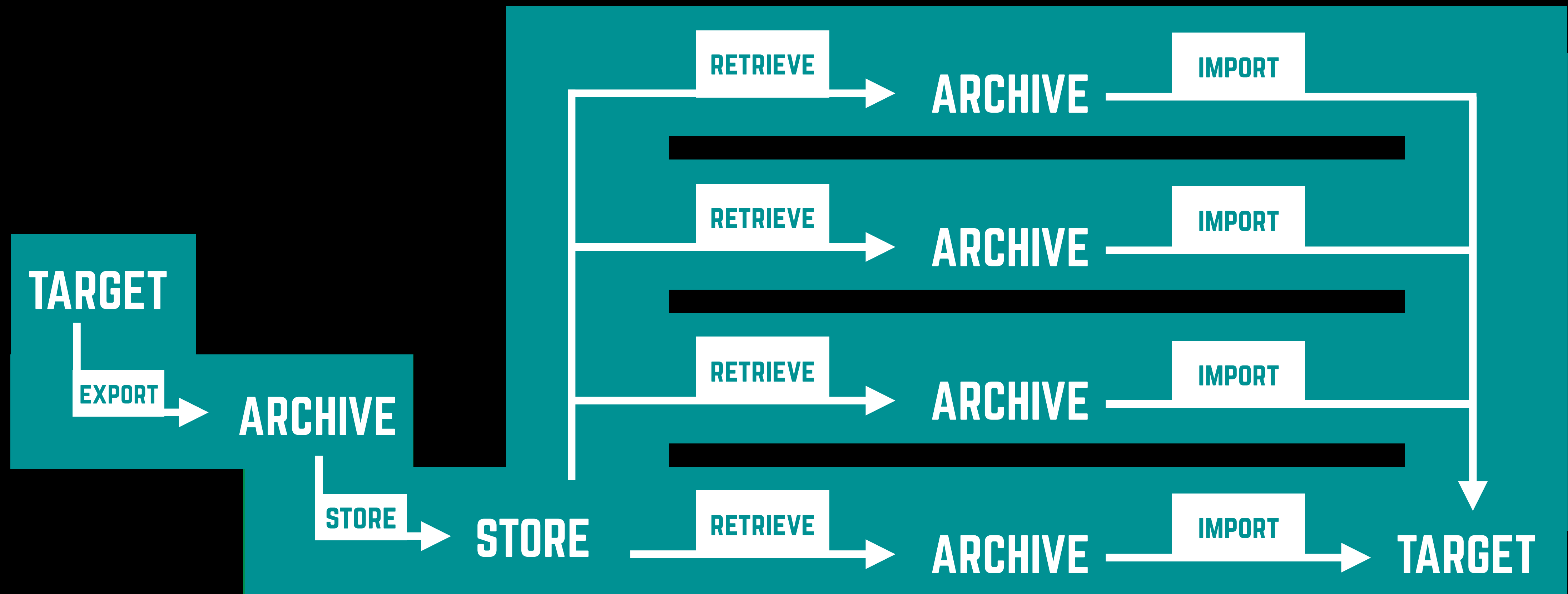


“CLONE SYSTEM”



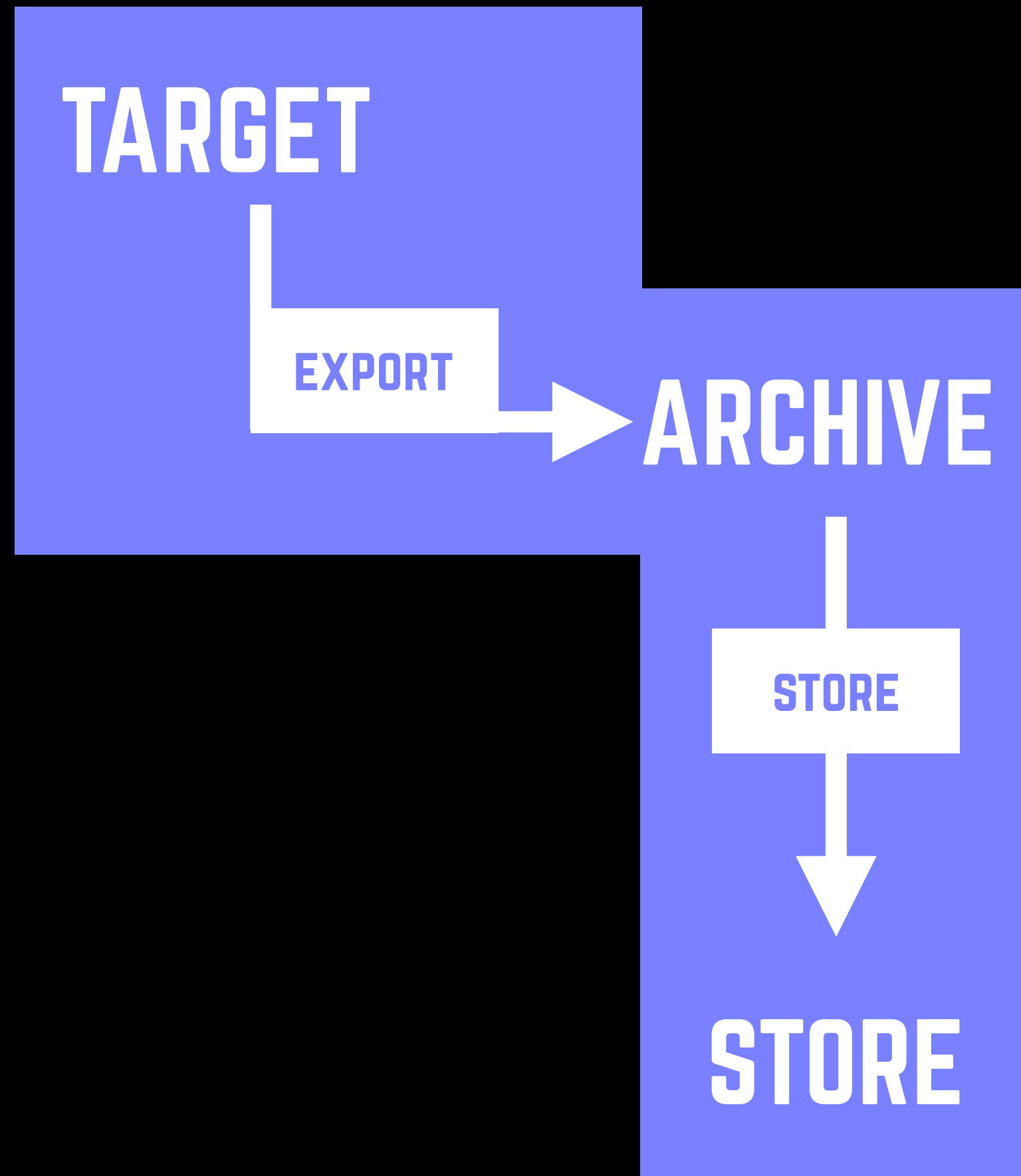


“TEST CASE DATA”

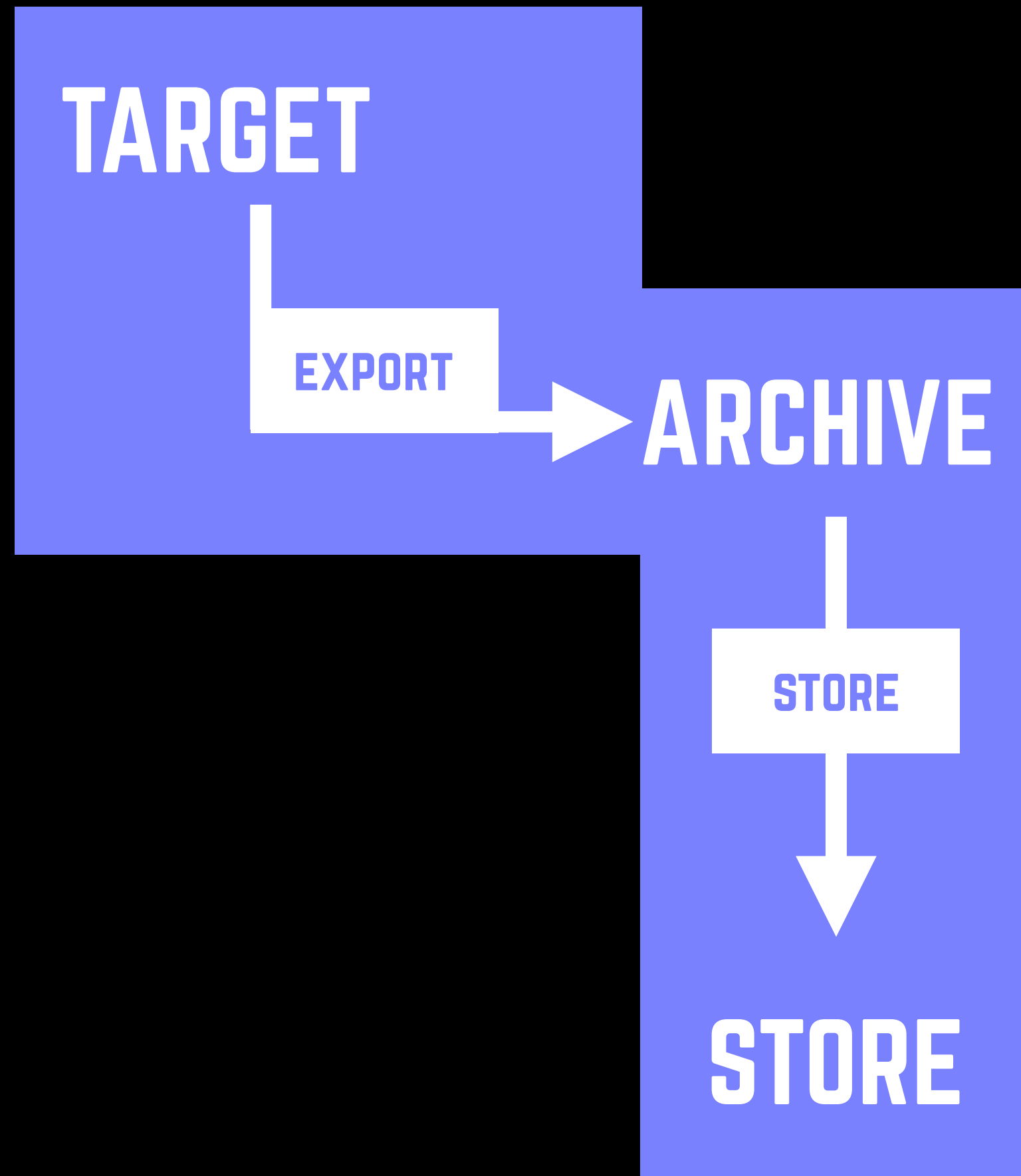


**DO NOT DO THIS
IN PRODUCTION**

“DISASTER RECOVERY”



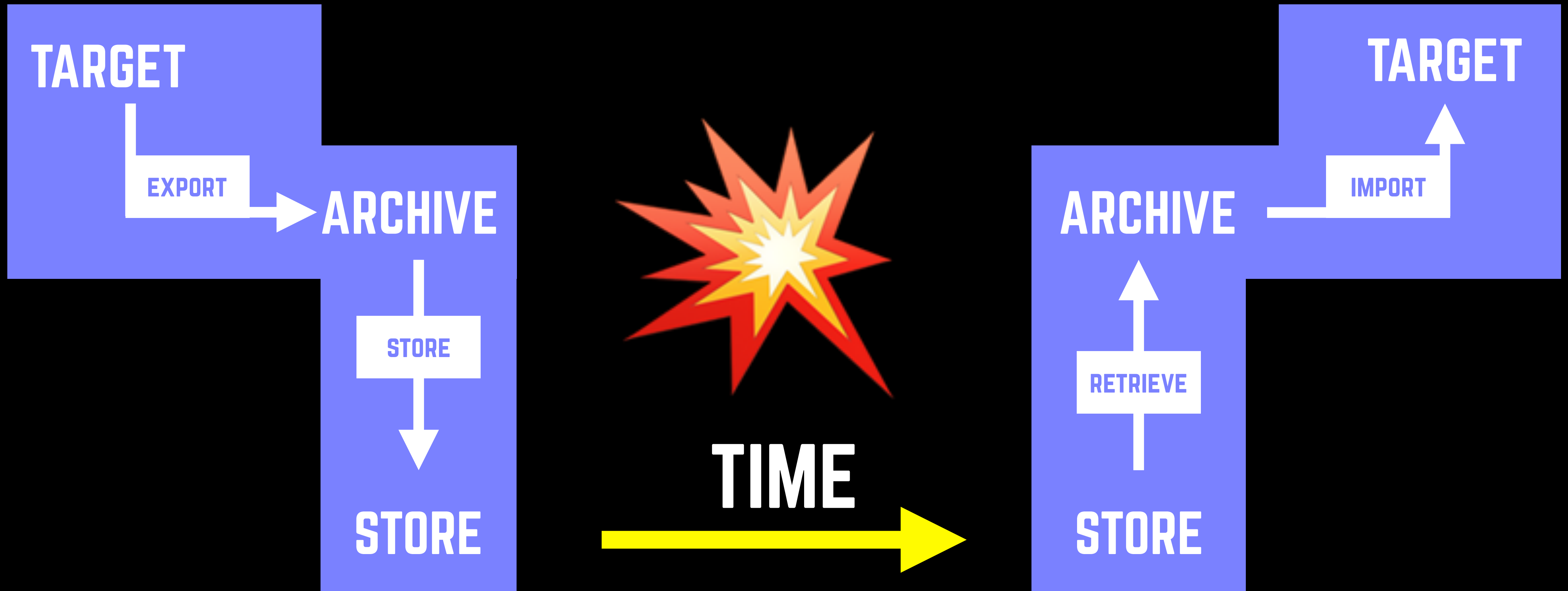
“DISASTER RECOVERY”



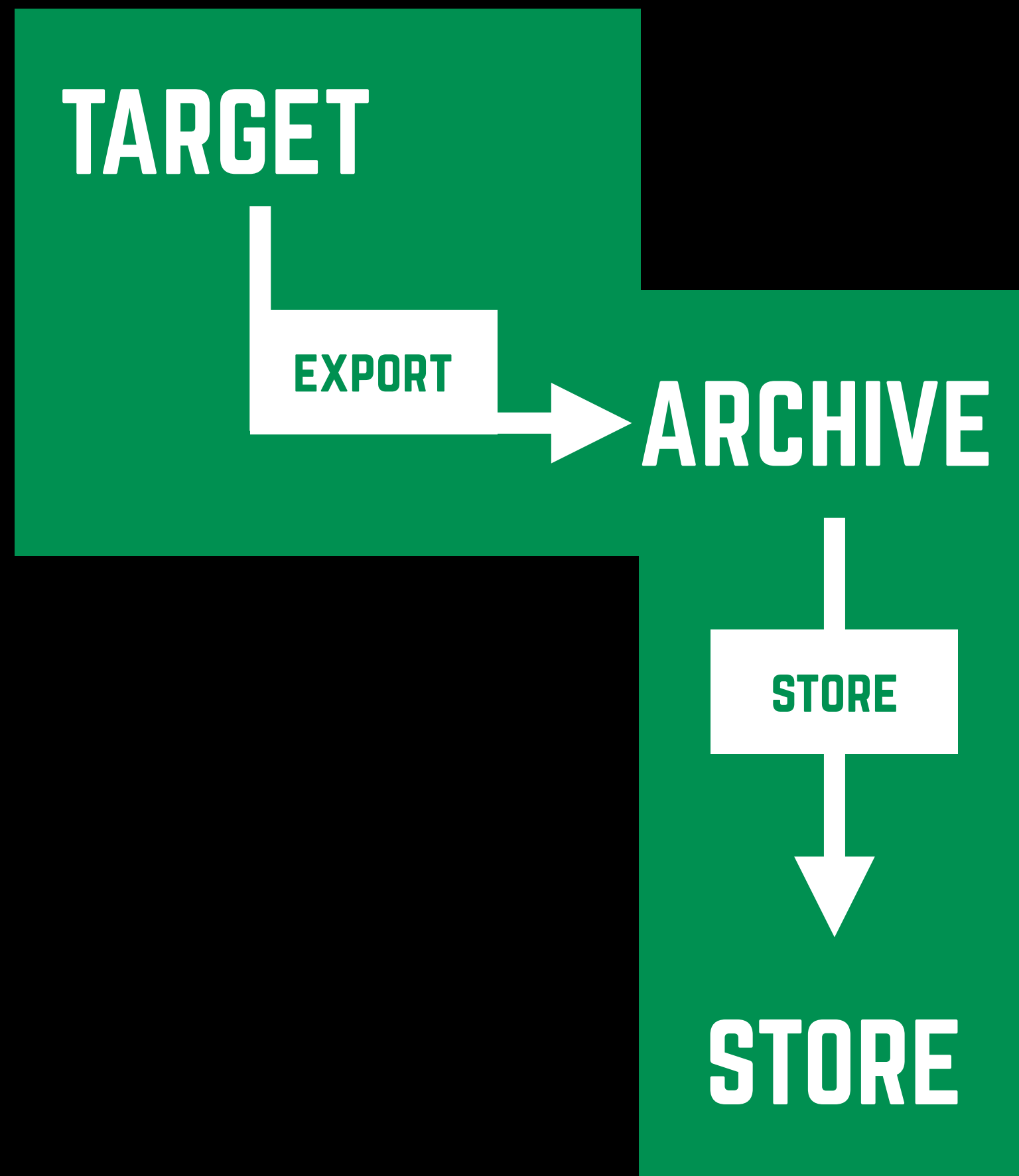
TIME



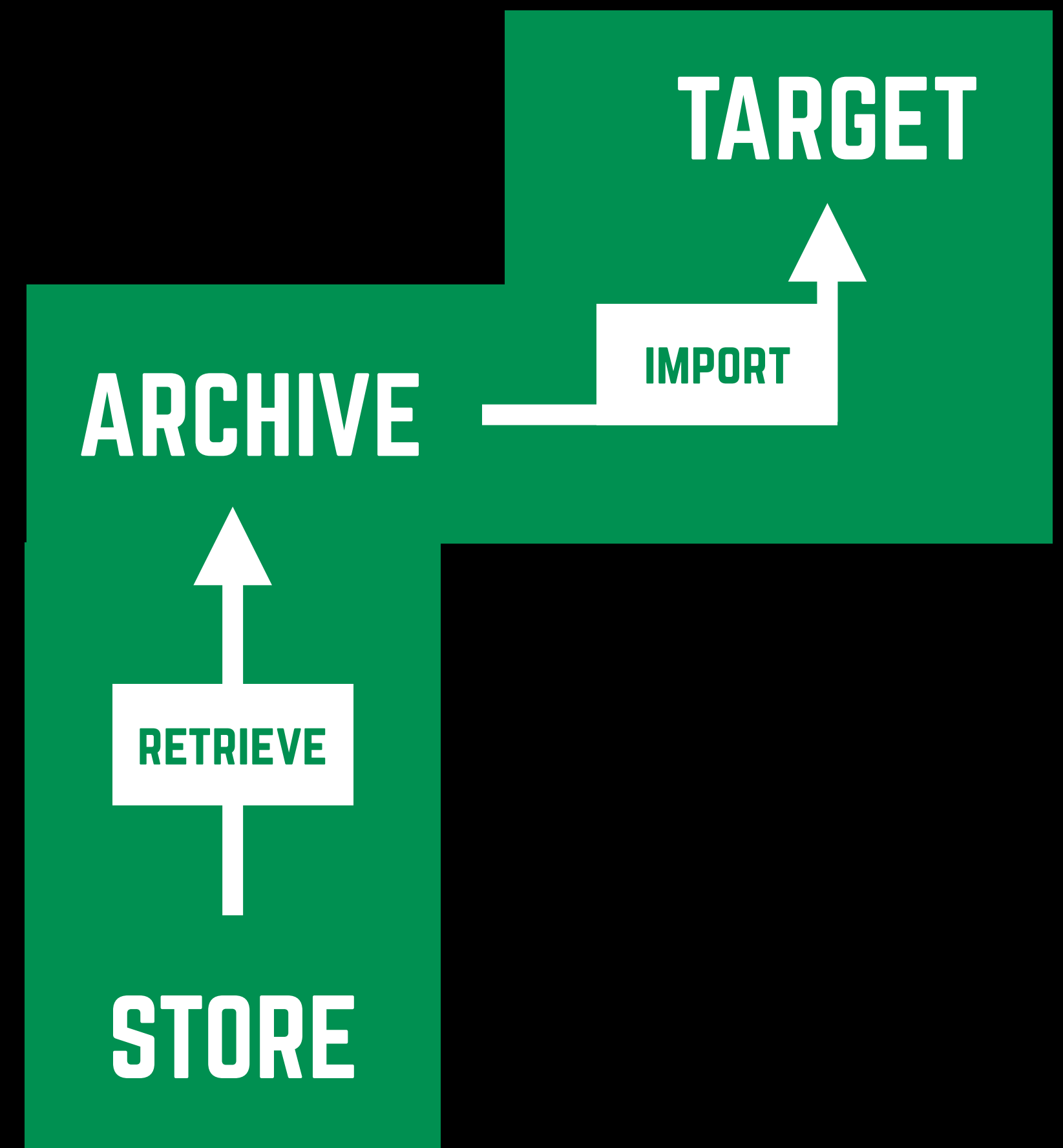
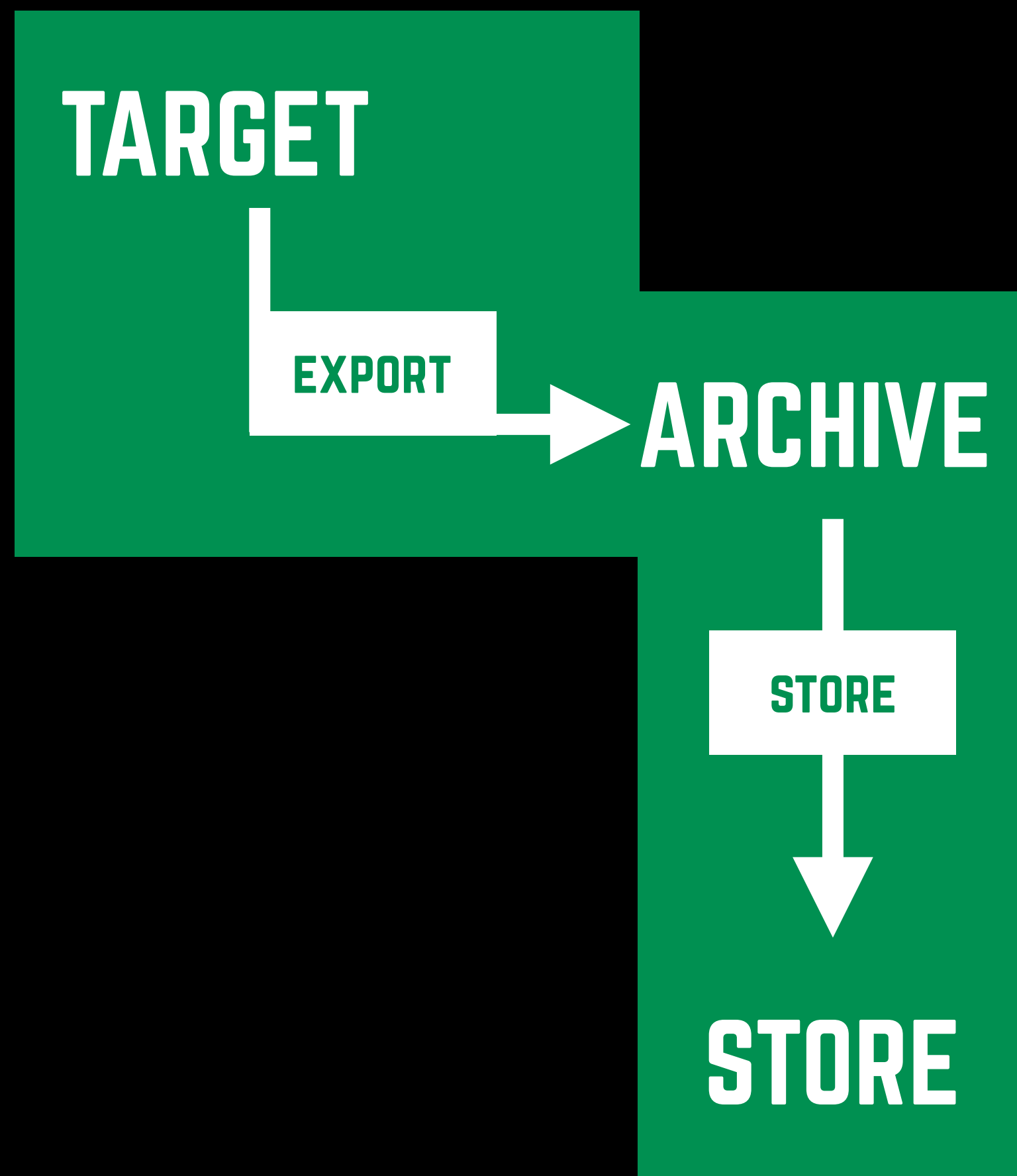
“DISASTER RECOVERY”



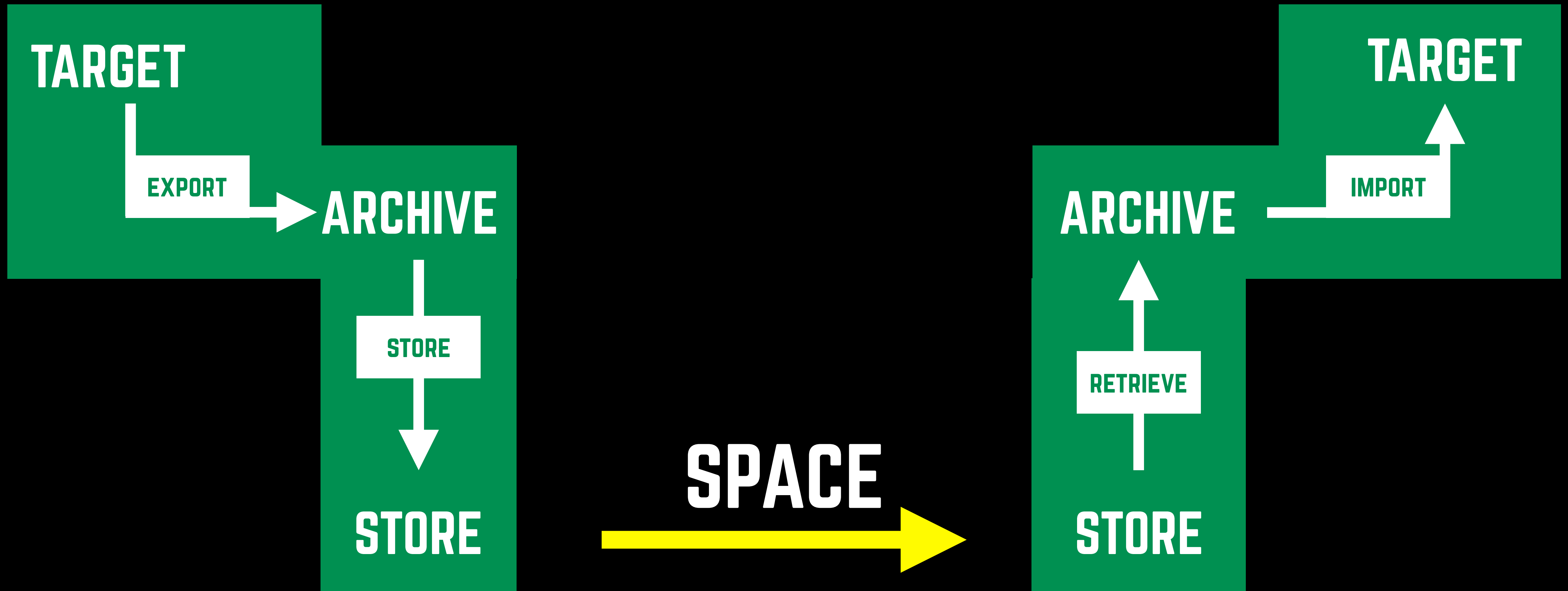
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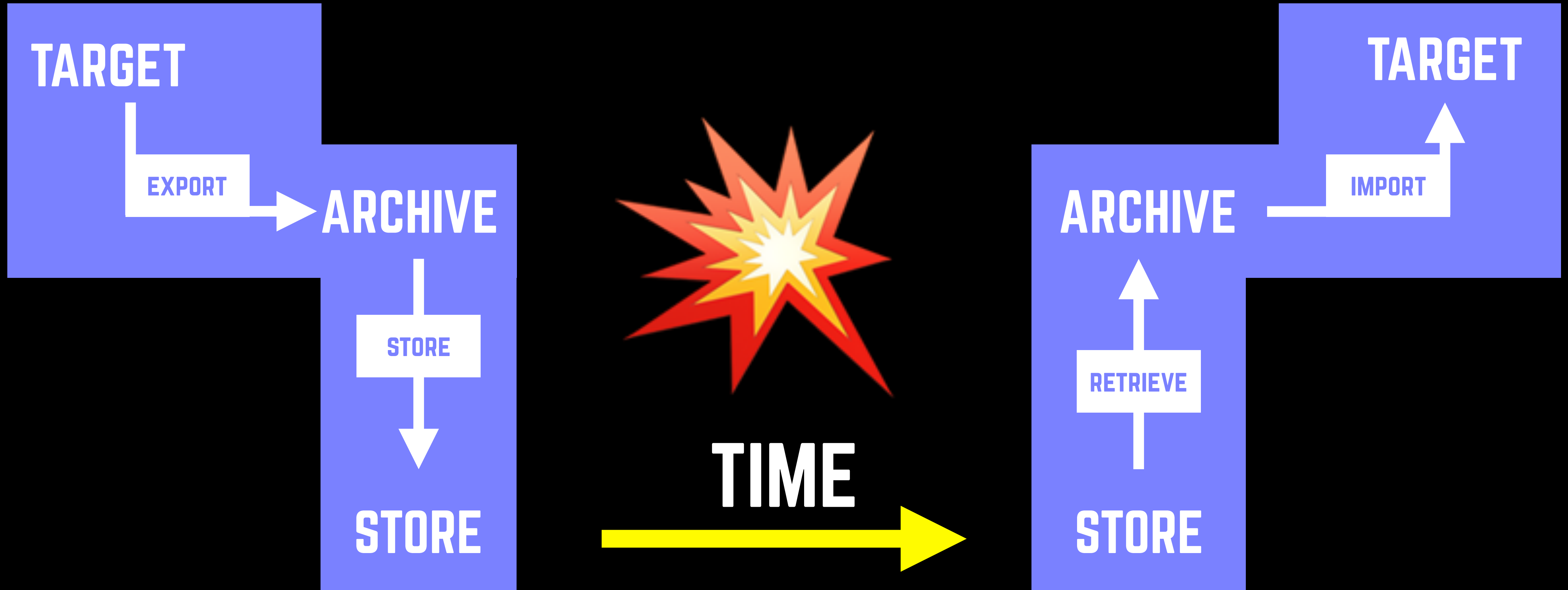
“DATA MIGRATION”

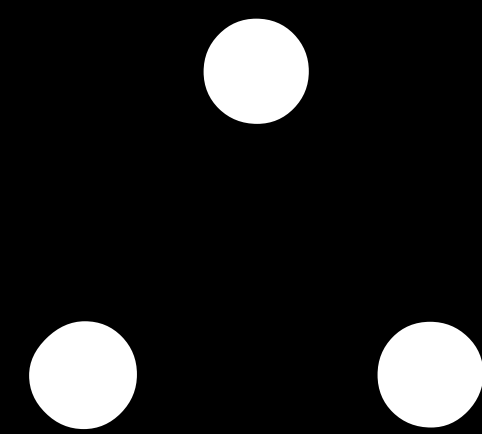


“DATA MIGRATION”



“DISASTER RECOVERY”



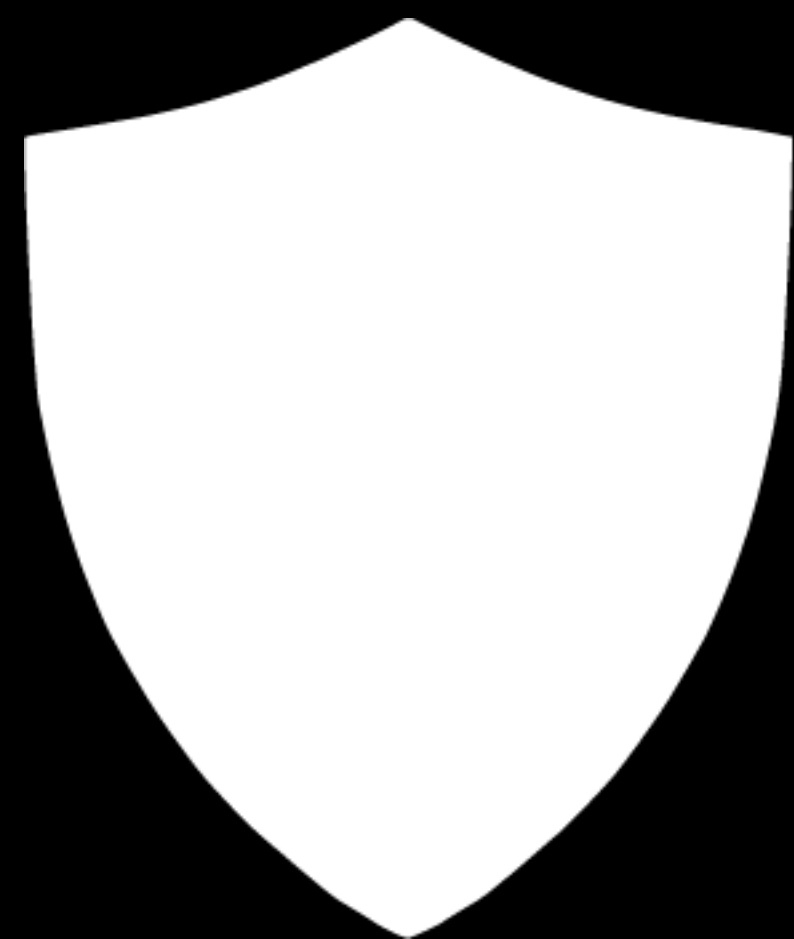


IF YOU SCHEDULE IT:

**DATA
MIGRATION**

IF YOU DON'T:

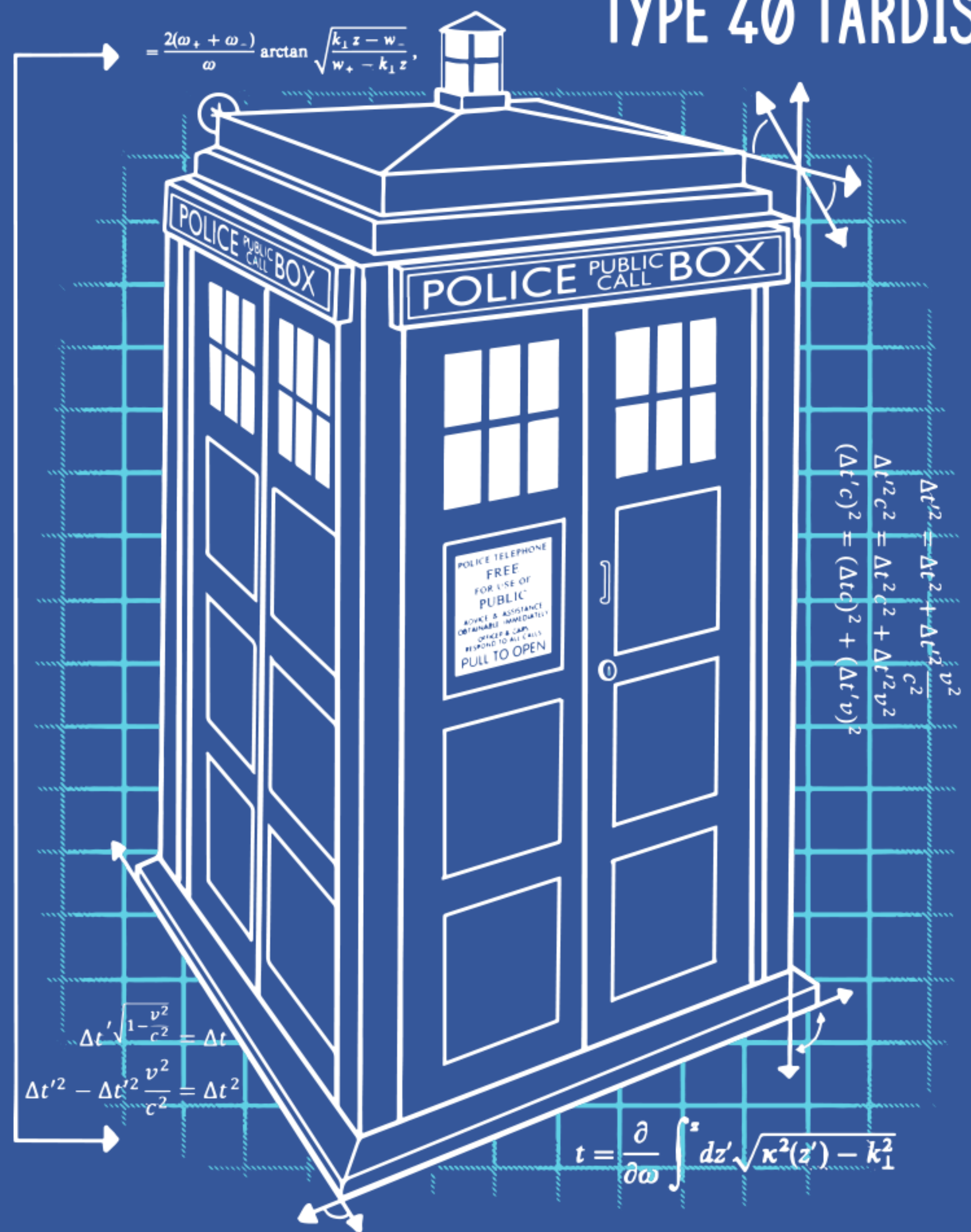
**DISASTER
RECOVERY**



SHIELD
DATA PROTECTION

SHIELDPROJECT.IO

TYPE 40 TARDIS



THANK YOU

TYPE 40 TARDIS



TARDIS
TAR.GZ

THANK YOU