

Welcome to The Apocalypse Sampler Readme! It took a lot of time to make, so hopefully you enjoy it. This page is all about pack statistics.

## Pack Basics

Total Songs	41	Total Charts	78
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## Pack Music Information

Total Music Length	2:58:36 (2hrs 58mins 36s)
Shortest Song	Witch Hunt (1:46, 1min 46s)
Longest Song	Xenoflux (9:58, 9mins 58s)
Average Song Length	4:21 (4mins, 21s)

Adj. Song Length is the duration from the first to last note in a chart.

Average Adj. Song Length	4:16 (4mins, 16s)
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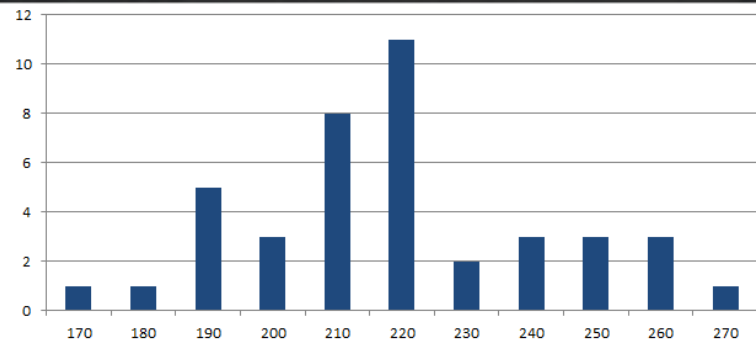
## Pack Development Information

Release Date	September 14th, 2015
First Chart Stepped	Aeg SX (4/26/2014)
Last Chart Stepped	Chambers of Shaolin SH (8/14/2015)
Total Stepping Duration	477 Days (1 Year, 3 Months, 21 Days)
Average Stepping Time per Chart	6.1 Days/Chart (It got slow for a bit)
Average Arrows per Day	441.2 (27.5 Measures of 16ths)

## BPM Information

BPM Range	126 BPM (144 - 270 BPM)
Average BPM	216.8

## Histogram of BPM Distribution



## Pack Chart Information

Total Steps	210,436
Most Steps	Chambers of Shaolin SX (7600 Steps)
Least Steps	Kare Da Yo! SE (837 Steps)
Average Steps per Chart	4:21 (4mins, 21s)

**Step Density** uses information directly from the songwheel (Jumps and Hands count as one step): **(Number of Steps)/(Full Song Length)**

Average Steps Density per Chart	10.62
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**Adj. Step Density** uses Adj. Song Length and uses number of arrows (A Jump is two arrows etc.): **(Number of Arrows)/(Adj. Song Length)**

Average Adj. Steps Density per Chart	11.11
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Highest Step Density for a Chart	15.36 (Haughs o' Cromdale SX)
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Lowest Step Density for a Chart	5.98 (Kare Da Yo! SE)
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Total Jumps	1358
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Average Jumps per Chart	17.4
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Longest Stream in a Chart	272 Measures (Chambers of Shaolin SX)
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Most Stream in a Chart	436 Measures (Chambers of Shaolin SX)
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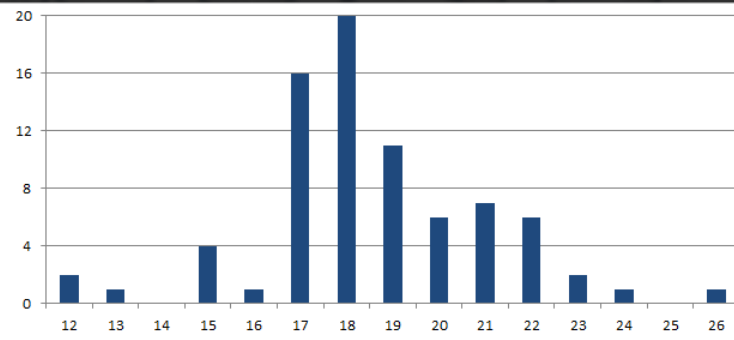
## Pack Difficulty Information

Average Difficulty (Expert Only)	19.3
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Average Difficulty (Full Difficulties)	18.3
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Most Common Difficulty	18 (20 Total Charts)
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## Histogram of Difficulty Distribution



# TABLE OF CONTENTS

## BY THE NUMBERS

Page 1

## CHART BREAKDOWNS

Page 2

## PACK COMPARISONS

Page 16

## ARTIST CREDITS

Page 17

## THANK YOU'S

Page 19

## Chart Breakdown Example

**Song Title - Song Artist (Background Color Denotes Difficulty)**

BPM	BPM Value	Stepartist	Stepartist Name
Difficulty	Difficulty Value	Total Steps	Number of Steps

**Simple Breakdown (more useful):** A break must be a measure or longer, otherwise a stream will not be considered broken. **RED TEXT** denotes stream, **BLUE TEXT** denotes break. **GREEN TEXT** denotes footspeed.

**In-Depth Breakdown (more accurate):** Anything a beat or longer is a break. Broken up streams are chained together by hyphens (-). Foot-speed transitions are marked with slashes (/). Colors same as above.

Total Stream	Stream Amount	Total Break	Break Amount
Length	Song Length	Length Adjusted	Song Length Adj.
Step Density	Steps/Second	Step Density Adj.	See Page 1

**This section is used to help represent unquantifiable data.**

Total Footspeed	FS Amount	Footspeed BPM	BPM Amount
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## Battle 3 + 2 (From Lufia II) - S.S.H.

BPM	192	Stepartist	Arvin
Difficulty	15+	Total Steps	2910 (26 Jumps)

**Simple Breakdown:** 3 - 7 - 1 - 7 - 1 - 7 - 1 - 7 - 17 - 15 - 6 - 5 - 3 - 7 - 1 - 7 - 1 - 7 - 1 - 7 - 17 - 11 - 1 - 7 - 49 - 16 - 1 - 8.5 - 3.5

**In-Depth Breakdown:** 10 - 3.25 - 6.75 - 1.25 - 6.75 - 1.25 - 6.75 - 1.25 - 6.75 - 17 - 15 - 6 - 5 - 3.25 - 6.75 - 1.25 - 6.75 - 1.25 - 6.75 - 1.25 - 6.75 - 17 - 11 - 1 - 6.75 - 49 - 16 - 1 - 8.5 - 3.5 - 3

Total Stream	108.5 Measures	Total Break	116.25 Measures
Length	5:00	Length Adjusted	4:56
Step Density	9.61	Step Density Adj.	9.83

Most of the break in the chart is actually 16th triplets, hence the higher step density than the breakdown would suggest. Either way, this is still quite close to the 15/16 border.

## Aeg - Kyou1110

BPM	220	Stepartist	@@
Difficulty	19	Total Steps	2396 (4 Jumps)

**Simple Breakdown:** 130

**In-Depth Breakdown:** 12 - 130 - 28

Total Stream	130 Measures	Total Break	0 Measures
Length	3:17	Length Adjusted	3:07
Step Density	12.14	Step Density Adj.	12.81

This was the first file written for the pack. It is just a straight 130 measure run at 220, with the patterns alternating between decently easy and hard. It is mentally easier than most other 19's around this difficulty.

## Battle 3 + 2 (From Lufia II) - S.S.H.

BPM	192	Stepartist	Arvin
Difficulty	17-	Total Steps	3214 (26 Jumps)

**Simple Breakdown:** 51 - 15.5 - 5.5 - 5 - 51 - 3 - 65 - 16 - 1 - 9 - 3

**In-Depth Breakdown:** 10 - 51 - 15.5 - 5.5 - 5 - 51 - 3 - 65 - 16 - 1 - 9 - 3 - 3

Total Stream	176.5	Total Break	48.5
Length	5:00	Length Adjusted	4:56
Step Density	10.63	Step Density Adj.	10.86

Song is well known in the ITG community due to the faster chiptune version being featured prominently in the Tachyon pack series. Patterns are decently hard with a pretty large amount of boxes.

## Among the Pines - Wisp

BPM	215.6	Stepartist	@@
Difficulty	18+	Total Steps	2708 (0 Jumps)

**Simple Breakdown:** 73 - 23 - 65

**In-Depth Breakdown:** 23.5 - 0.5 - 31.25 - 23.75 - 49.75 - 23 - 65

Total Stream	138 Measures	Total Break	54.25 Measures
Length	4:31	Length Adjusted	4:09
Step Density	9.99	Step Density Adj.	10.88

The beginning of this song severely lowers its step density, since it is 56 measures of nothing really more than 4th notes. First stream has easy patterns for the first half, second stream has hard patterns. It is a hard 18.

## Blockbuster - Irvin

BPM	194	Stepartist	Zaia
Difficulty	17	Total Steps	3031 (1 Jump)

**Simple Breakdown:** 55 - 1 - 63 - 17.25 - 63

**In-Depth Breakdown:** 55 - 1 - 24 - 8 - 31 - 17.25 - 8 - 54 - 1

Total Stream	181 Measures	Total Break	18.25 Measures
Length	4:23	Length Adjusted	4:08
Step Density	11.52	Step Density Adj.	12.22

A good mid-17 chart by Zaia. The patterns aren't too difficult. The break is really well placed, being slightly after the halfway mark. The song's artist is either Irvin or Outtracks depending on where you look.

## Chart Breakdown Example

Song Title - Song Artist (Background Color Denotes Difficulty)

BPM	BPM Value	Stepartist	Stepartist Name
Difficulty	Difficulty Value	Total Steps	Number of Steps

**Simple Breakdown (more useful):** A break must be a measure or longer, otherwise a stream will not be considered broken. **RED TEXT** denotes stream, **BLUE TEXT** denotes break. **GREEN TEXT** denotes footspeed.

**In-Depth Breakdown (more accurate):** Anything a beat or longer is a break. Broken up streams are chained together by hyphens (-). Foot-speed transitions are marked with slashes (/). Colors same as above.

Total Stream	Stream Amount	Total Break	Break Amount
Length	Song Length	Length Adjusted	Song Length Adj.
Step Density	Steps/Second	Step Density Adj.	See Page 1

This section is used to help represent unquantifiable data.

Total Footspeed	FS Amount	Footspeed BPM	BPM Amount
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## Caspersen's Secret Fetish - Mr. Cucumber

BPM	270 (Variable)	Stepartist	Aoreo
Difficulty	21+	Total Steps	1541 (19 Jumps)

**Simple Breakdown:** 15.5 - 3 - 1.5 - 2.5 - 1 - 1 - 15 - 1 - 15 - 16 - 5 - 2.5 - 16 - 1 - 3

**In-Depth Breakdown:** 1.5 - 0.5 - 1.5 - 0.5 - 3.5 - 0.5 - 2 - 15.5 - 3 - 1.5 - 1 - 0.5 - 1 - 1 - 1 - 15 - 1 - 15.25 - 15.75 - 5.25 - 2.5 - 11.25 - 0.75 - 5 - 1 - 3 - 22

Total Stream	74.75 Measures	Total Break	34 Measures
Length	2:36	Length Adjusted	2:34
Step Density	9.76	Step Density Adj.	10.09

Same as the medium chart except now there is an extra 15 measure stream tacked onto big group of streams in the beginning of the song. The new stream is mostly around 250 BPM.

## Caspersen's Secret Fetish - Mr. Cucumber

BPM	270 (Variable)	Stepartist	Aoreo
Difficulty	17	Total Steps	1251 (26 Jumps)

**Simple Breakdown:** 15.5 - 3 - 1.5 - 2.5 - 1 - 1 - 15

**In-Depth Breakdown:** 1.5 - 0.5 - 1.5 - 0.5 - 3.5 - 0.5 - 2 - 15.5 - 3 - 1.5 - 1 - 0.5 - 1 - 1 - 1 - 15 - 83.5

Total Stream	35 Measures	Total Break	13 Measures
Length	2:36	Length Adjusted	2:34
Step Density	7.85	Step Density Adj.	8.12

The large break at the end has 12ths, which roughly equate to 190 stream for less than 16 measures. The large break at the end also makes this song seem really short. The BPM for this file is really wonky.

## Caspersen's Secret Fetish - Mr. Cucumber

BPM	270 (Variable)	Stepartist	Aoreo
Difficulty	22	Total Steps	1747 (19 Jumps)

**Simple Breakdown:** 15.5 - 3 - 1.5 - 2.5 - 1 - 1 - 15 - 1 - 15 - 16 - 5 - 2.5 - 16 - 1 - 3 - 3 - 19

**In-Depth Breakdown:** 1.5 - 0.5 - 1.5 - 0.5 - 3.5 - 0.5 - 2 - 15.5 - 3 - 1.5 - 1 - 0.5 - 1 - 1 - 1 - 15 - 1 - 15.25 - 15.75 - 5.25 - 2.5 - 11.25 - 0.75 - 5 - 1 - 3 - 3 - 19

Total Stream	93.75 Measures	Total Break	37 Measures
Length	2:36	Length Adjusted	2:34
Step Density	11.08	Step Density Adj.	11.34

Same as the hard chart except now there is a 19 measure stream at the end of the song. The new stream's BPM range is mostly in the upper 260's as well.

## Caspersen's Secret Fetish - Mr. Cucumber

BPM	270 (Variable)	Stepartist	Aoreo
Difficulty	19+	Total Steps	1353 (26 Jumps)

**Simple Breakdown:** 15.5 - 3 - 1.5 - 2.5 - 1 - 1 - 15 - 33 - 5 - 2.5 - 16 - 1 - 3

**In-Depth Breakdown:** 1.5 - 0.5 - 1.5 - 0.5 - 3.5 - 0.5 - 2 - 15.5 - 3 - 1.5 - 1 - 0.5 - 1 - 1 - 1 - 15 - 33 - 5.25 - 2.5 - 11.25 - 0.75 - 5 - 1 - 3 - 22

Total Stream	59.5 Measures	Total Break	50.25 Measures
Length	2:36	Length Adjusted	2:34
Step Density	8.51	Step Density Adj.	8.79

Patterns are the same as in the easy chart except now there is actually stream following the middle section. Most of the stream towards the end of the song is in the 265-270 BPM range.

## Chambers of Shaolin - Mad Max

BPM	250.3	Stepartist	@@
Difficulty	23+	Total Steps	5521 (0 Jumps)

**Simple Breakdown:** 144 - 88 - 34.5 - 144 - 14 - 2 - 50 - 2 - 10.5 - 2 - 8

**In-Depth Breakdown:** 144 - 88 - 16-1-2-1-1-0.5-1-2-1-10 - 144 - 13.75 - 2.25 - 12-1-2-1-1-0.5-1-2-1-2-1-2-1-1-0.5-1-2-1-18 - 2 - 1-2-1-1-0.5-1-2-1-2 - 2 - 7.75

Total Stream	260.5 Measures	Total Break	238.25 Measures
Length	8:18	Length Adjusted	8:18
Step Density	11.09	Step Density Adj.	11.09

This file has a very large amount of break, which means it is probably pretty boring in comparison to other files of similar difficulty. @@ just couldn't do this song justice by not including a non-dumpy chart.

## Chart Breakdown Example

Song Title - Song Artist (Background Color Denotes Difficulty)

BPM	BPM Value	Stepartist	Stepartist Name
Difficulty	Difficulty Value	Total Steps	Number of Steps

**Simple Breakdown (more useful):** A break must be a measure or longer, otherwise a stream will not be considered broken. **RED TEXT** denotes stream, **BLUE TEXT** denotes break. **GREEN TEXT** denotes footspeed.

**In-Depth Breakdown (more accurate):** Anything a beat or longer is a break. Broken up streams are chained together by hyphens (-). Footspeed transitions are marked with slashes (/). Colors same as above.

Total Stream	Stream Amount	Total Break	Break Amount
Length	Song Length	Length Adjusted	Song Length Adj.
Step Density	Steps/Second	Step Density Adj.	See Page 1

This section is used to help represent unquantifiable data.

Total Footspeed	FS Amount	Footspeed BPM	BPM Amount
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## Force Your Way - Arvin

BPM	262.5	Stepartist	Arvin
Difficulty	22+	Total Steps	1285 (8 Jumps)

Simple Breakdown: **25 - 48 - 36**

In-Depth Breakdown: **25 - 48 - 36 - 15**

Total Stream	51 Measures	Total Break	48 Measures
Length	1:57	Length Adjusted	1:53
Step Density	10.91	Step Density Adj.	11.37

This breakdown has everything multiplied by 1.5x in order to represent how much stream/break there would be if the file was actually 262.5 BPM instead of having 24ths at 175 BPM.

## Chambers of Shaolin - Mad Max

BPM	250.3	Stepartist	@@
Difficulty	26-	Total Steps	7600 (0 Jumps)

Simple Breakdown: **272 - 80 - 140 - 2 - 16 - 2 - 8**

In-Depth Breakdown: **272 - 80 - 140 - 2 - 16 - 2 - 7.75**

Total Stream	435.75 Measures	Total Break	84 Measures
Length	8:18	Length Adjusted	8:18
Step Density	15.30	Step Density Adj.	15.30

This is by far the hardest file in the pack. Patterns are similar to those found in stamina charts, which is to say harder than the average footspeed chart. Have fun.

## Führer of the Storm - Dragonforce

BPM	230	Stepartist	Janus5k
Difficulty	22	Total Steps	4938 (39 Jumps)

Simple Breakdown: **1 - 4 - 15 - 2 - 17 - 1 - 24 - 3 - 1 - 3 - 16 - 1 - 12 - 2 - 9/1/0.5/0.5/37 - 1 - 12 - 2 - 1 - 7 - 4 - 1 - 3 - 1 - 1 - 1 - 1 - 1 - 2 - 10 - 84/2/0.5/1/3.5/1/9 - 1 - 5/2 - 6 - 18 - 2 - 1**

In-Depth Breakdown: **3 - 1 - 4 - 15 - 2 - 17 - 1 - 24 - 3 - 1 - 3 - 16 - 1 - 12 - 2 - 9/0.75/0.5/0.5/36.75 - 1 - 12 - 2 - 1 - 7 - 4 - 1 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 2 - 10 - 84/2/0.5/1/3.5/1/9 - 1 - 5/2 - 6 - 18 - 2 - 1 - 1**

Total Stream	284.5 Measures	Total Break	50 Measures
Length	5:53	Length Adjusted	5:50
Step Density	13.88	Step Density Adj.	14.11

Same as the expert chart except with some added in 20ths, since apparently this chart wasn't hard enough.

Total Footspeed	7.25 Measures	Footspeed BPM	287.5
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## Distorted Story - so-fram\*c

BPM	220	Stepartist	Aoreo
Difficulty	19-	Total Steps	3478 (30 Jumps)

Simple Breakdown: **1 - 1 - 15 - 1 - 15 - 1 - 16 - 48 - 1 - 3 - 15 - 1 - 7 - 9 - 15 - 9 - 7 - 1 - 7 - 1 - 7 - 18 - 15 - 1 - 15 - 1 - 15 - 1 - 15**

In-Depth Breakdown: **30 - 1 - 1 - 15 - 1 - 15 - 1 - 16 - 48 - 1 - 3 - 15 - 1 - 7 - 9 - 15 - 9 - 7 - 1 - 7 - 1 - 7 - 18 - 15.25 - 1 - 14.75 - 1 - 15 - 1 - 15 - 1 - 15 - 1**

Total Stream	181 Measures	Total Break	97 Measures
Length	5:38	Length Adjusted	5:20
Step Density	10.20	Step Density Adj.	10.87

This file is pretty borderline considering how many breaks there are in the streams, but there is enough stream total for this to go over the edge. Song is also extremely hype.

## Führer of the Storm - Dragonforce

BPM	230	Stepartist	Janus5k
Difficulty	22-	Total Steps	4914 (39 Jumps)

Simple Breakdown: **1 - 4 - 15 - 2 - 17 - 1 - 24 - 3 - 1 - 3 - 16 - 1 - 12 - 2 - 47.5 - 1 - 12 - 2 - 1 - 7 - 4 - 1 - 3 - 1 - 1 - 1 - 1 - 1 - 2 - 10 - 100 - 1 - 7 - 6 - 18 - 2 - 1**

In-Depth Breakdown: **3 - 1 - 4 - 15 - 2 - 17 - 1 - 24 - 3 - 1 - 3 - 16 - 1 - 12 - 2 - 47.5 - 1 - 12 - 2 - 1 - 7 - 4 - 1 - 3 - 1 - 1 - 1 - 1 - 1 - 2 - 10 - 100 - 1 - 7 - 6 - 18 - 2 - 1 - 1**

Total Stream	283.5 Measures	Total Break	50 Measures
Length	5:53	Length Adjusted	5:50
Step Density	13.81	Step Density Adj.	14.04

This is an extremely relentless file with hard patterns. It is also just Fury of the Storm sped up to 230 BPM. It sounds surprisingly good at this speed.

# THE APOCALYPSE SAMPLER

5/19

## Chart Breakdown Example

Song Title - Song Artist (Background Color Denotes Difficulty)

BPM	BPM Value	Stepartist	Stepartist Name
Difficulty	Difficulty Value	Total Steps	Number of Steps

**Simple Breakdown (more useful):** A break must be a measure or longer, otherwise a stream will not be considered broken. **RED TEXT** denotes stream, **BLUE TEXT** denotes break. **GREEN TEXT** denotes footspeed.

**In-Depth Breakdown (more accurate):** Anything a beat or longer is a break. Broken up streams are chained together by hyphens (-). Foot-speed transitions are marked with slashes (/). Colors same as above.

Total Stream	Stream Amount	Total Break	Break Amount
Length	Song Length	Length Adjusted	Song Length Adj.
Step Density	Steps/Second	Step Density Adj.	See Page 1

This section is used to help represent unquantifiable data.

Total Footspeed	FS Amount	Footspeed BPM	BPM Amount
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## Hunting For Your Dream - Galneryus

BPM	178	Stepartist	Arvin
Difficulty	17-	Total Steps	2944 (27 Jumps)

**Simple Breakdown:** 2 - 17 - 1 - 6 - 2/1.5/16 - 6 - 2 - 7 - 1.5 - 6 - 2 - 6 - 27 - 6 - 2 - 12 - 3/2 - 5 - 2/1.5 - 4 - 5/3 - 1 - 9 - 1.5 - 44/5/1 - 1.5 - 6.5

**In-Depth Breakdown:** 5.75 - 2 - 17 - 1 - 6 - 2/1.5/16 - 5.75 - 2 - 6.75 - 1.5 - 5.75 - 2 - 6 - 27 - 6 - 2 - 12 - 3/0.25 - 0.75 - 1 - 5 - 2/1.5 - 4 - 5/3 - 1 - 9 - 1.5 - 44/5/1 - 1.5 - 1 - 0.5 - 1 - 0.5 - 3.5

Total Stream	136.25 Measures	Total Break	80 Measures
Length	5:04	Length Adjusted	4:55
Step Density	9.60	Step Density Adj.	9.98

This is the easiest expert chart in the pack. It is a very borderline 17 and probably really easy for those who can move quickly.

Total Footspeed	14 Measures	Footspeed BPM	267
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## Haughs o' Cromdale - Andy M. Stewart and Manus Lunny

BPM	255	Stepartist	Zaia
Difficulty	24	Total Steps	3297 (1 Jump)

**Simple Breakdown:** 87 - 21 - 110

**In-Depth Breakdown:** 11 - 87 - 21.25 - 86-2-22.25

Total Stream	197.25 Measures	Total Break	21.25 Measures
Length	3:37	Length Adjusted	3:36
Step Density	15.29	Step Density Adj.	15.36

As I came in by Auchindoun, just a wee bit frae the toun, when to the Highlands I was bound, to view the haughs o' Cromdale.  
April 30th, 1690 - Never Forget.

## I Love LSD - Parandroid

BPM	192	Stepartist	TYLR
Difficulty	17+	Total Steps	4661 (0 Jumps)

**Simple Breakdown:** 37 - 1 - 63 - 1 - 31 - 1 - 23 - 1 - 14 - 2 - 18 - 6 - 4 - 1 - 96

**In-Depth Breakdown:** 28.75 - 37.25 - 1 - 16-47 - 1 - 15.5 - 0.5 - 15.25 - 1 - 22.75 - 1 - 14 - 2 - 16-2 - 5.75 - 4.25 - 1 - 31 - 0.75 - 64.25

Total Stream	285.25 Measures	Total Break	14 Measures
Length	7:00	Length Adjusted	6:19
Step Density	11.10	Step Density Adj.	12.30

This chart's rating has been a point of contention between the creators of this pack. It's pretty relentless breakdown-wise, but the patterns aren't too bad. It's still borderline though. Ratings aren't important, just beast.

## Hunting For Your Dream - Galneryus

BPM	178	Stepartist	Arvin
Difficulty	15	Total Steps	2872 (27 Jumps)

**Simple Breakdown:** 2 - 17 - 1 - 6 - 19 - 6 - 2 - 7 - 1.5 - 6 - 2 - 6 - 27 - 6 - 2 - 12 - 4 - 5 - 3 - 4 - 7 - 1 - 9 - 1.5 - 48 - 1.5 - 6.5

**In-Depth Breakdown:** 5.75 - 2 - 17 - 1 - 6 - 19 - 5.75 - 2 - 6.75 - 1.5 - 5.75 - 2 - 6 - 27 - 6 - 2 - 12 - 2.25 - 0.75 - 1 - 5 - 3 - 4 - 7 - 1 - 9 - 1.5 - 48 - 1.5 - 1 - 0.5 - 1 - 0.5 - 3.5

Total Stream	132.25 Measures	Total Break	80 Measures
Length	5:04	Length Adjusted	4:55
Step Density	9.36	Step Density Adj.	9.74

Pretty good song. A lot of the break is actually pretty dense, just not dense enough to be considered stream. The patterns are decently tame. Same as the expert with the 24ths removed.

## Jehovah's YaHVeH - Demetori

BPM	220	Stepartist	Archi
Difficulty	20	Total Steps	3823 (7 Jumps)

**Simple Breakdown:** 24 - 1 - 55 - 1.5 - 7 - 1 - 15 - 1 - 18 - 1 - 36 - 8 - 8 - 1 - 7 - 1 - 57

**In-Depth Breakdown:** 32 - 3.25 - 0.75 - 20 - 1 - 55 - 1.5 - 7 - 1 - 15 - 1 - 18 - 1 - 36 - 8 - 8 - 1 - 7 - 1 - 57 - 1

Total Stream	226.25 Measures	Total Break	16.25 Measures
Length	5:08	Length Adjusted	4:52
Step Density	12.39	Step Density Adj.	13.09

This is a pretty rough chart. It is the hardest rendition of this song in particular, with about 200 more notes than the East Coast Violation chart. Break is forgiving enough for this to be considered mid though.

# CHART BREAKDOWNS

# THE APOCALYPSE SAMPLER

6/19

## Chart Breakdown Example

Song Title - Song Artist (Background Color Denotes Difficulty)

BPM	BPM Value	Stepartist	Stepartist Name
Difficulty	Difficulty Value	Total Steps	Number of Steps

**Simple Breakdown (more useful):** A break must be a measure or longer, otherwise a stream will not be considered broken. **RED TEXT** denotes stream, **BLUE TEXT** denotes break. **GREEN TEXT** denotes footspeed.

**In-Depth Breakdown (more accurate):** Anything a beat or longer is a break. Broken up streams are chained together by hyphens (-). Foot-speed transitions are marked with slashes (/). Colors same as above.

Total Stream	Stream Amount	Total Break	Break Amount
Length	Song Length	Length Adjusted	Song Length Adj.
Step Density	Steps/Second	Step Density Adj.	See Page 1

This section is used to help represent unquantifiable data.

Total Footspeed	FS Amount	Footspeed BPM	BPM Amount
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## Kare Da Yo! - YMCK

BPM	180	Stepartist	Fraxtil
Difficulty	15-	Total Steps	1185 (12 Jumps)

Simple Breakdown: 7.5 - 2 - 7.5 - 7 - 2 - 1 - 4 - 8 - 7.5 - 2 - 7.5 - 1.5 - 8.5

In-Depth Breakdown: 34 - 7.5 - 2 - 7.5 - 7 - 2 - 1.25 - 4 - 8 - 7.5 - 2 - 7.5 - 1.5 - 8.5 - 8

Total Stream	44.5 Measures	Total Break	21.75 Measures
Length	2:18	Length Adjusted	2:13
Step Density	8.50	Step Density Adj.	8.91

Besides the addition of 20ths in the chorus, this is the same as the medium chart. The 20ths have easy patterns.

Total Footspeed	30 Measures	Footspeed BPM	225
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## Kare Da Yo! - YMCK

BPM	180	Stepartist	Fraxtil
Difficulty	12-	Total Steps	837 (12 Jumps)

Simple Breakdown: 2 - 1 - 4 - 23.5 - 8.5

In-Depth Breakdown: 55 - 2 - 1.25 - 4 - 23.5 - 8.5 - 8

Total Stream	14.5 Measures	Total Break	24.75 Measures
Length	2:18	Length Adjusted	2:13
Step Density	5.98	Step Density Adj.	6.29

There isn't much stream in this song, but parts of the breaks are relatively dense enough for this to be considered a 12. Why are you reading the breakdown for a 12?

## Kare Da Yo! - YMCK

BPM	180	Stepartist	Fraxtil
Difficulty	21-	Total Steps	1281 (12 Jumps)

Simple Breakdown: 9 - 2 - 9 - 7 - 2 - 1.25 - 4 - 8 - 9 - 2 - 9 - 1.5 - 8.5

In-Depth Breakdown: 34 - 9 - 2 - 9 - 7 - 2 - 1.25 - 4 - 8 - 9 - 2 - 9 - 1.5 - 8.5 - 8

Total Stream	50.5 Measures	Total Break	21.75 Measures
Length	2:18	Length Adjusted	2:13
Step Density	9.20	Step Density Adj.	9.63

Besides the addition of 24ths in the chorus, this is the same as the medium chart. The 24ths have easy patterns.

Total Footspeed	36 Measures	Footspeed BPM	270
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## Kare Da Yo! - YMCK

BPM	180	Stepartist	Fraxtil
Difficulty	13-	Total Steps	1089 (12 Jumps)

Simple Breakdown: 6 - 2 - 6 - 7 - 2 - 1 - 4 - 8 - 6 - 2 - 6 - 1.5 - 8.5

In-Depth Breakdown: 34 - 6 - 2 - 6 - 7 - 2 - 1.25 - 4 - 8 - 6 - 2 - 6 - 1.5 - 8.5 - 8

Total Stream	38.5 Measures	Total Break	21.75 Measures
Length	2:18	Length Adjusted	2:13
Step Density	7.80	Step Density Adj.	8.18

This file is significantly harder than the easy chart now that the choruses are stream. The fact that the previous chart was rated what it was based on non-stream sections alone justifies the increase in difficulty.

## Katayoku no Tori - Hommarju feat. Mamiko

BPM	220	Stepartist	Fraxtil
Difficulty	17+	Total Steps	2633 (16 Jumps)

Simple Breakdown: 12 - 12 - 12 - 1 - 2 - 1 - 2 - 10.5 - 22.5 - 1 - 4.5 - 1.5 - 18 - 13 - 2 - 1 - 9 - 61 - 12 - 3 - 23 - 1 - 15 - 2 - 1.5

In-Depth Breakdown: 12 - 12 - 12 - 1.25 - 1.75 - 1.25 - 1.75 - 10.5 - 12 - 10.5 - 1.25 - 4.5 - 1.5 - 18 - 13.25 - 1.75 - 1.25 - 9.25 - 61.25 - 12.25 - 3 - 22.75 - 1.25 - 14.75 - 1.75 - 1.5

Total Stream	134.75 Measures	Total Break	108.5 Measures
Length	4:28	Length Adjusted	4:26
Step Density	9.76	Step Density Adj.	9.90

This is a really rough 17, pretty borderline. There aren't too many candles but there is a lot of turning. Measure values are weird since the song isn't in 4/4. The density is low due to the huge break near the end.

# CHART BREAKDOWNS

# THE APOCALYPSE SAMPLER

7/19

## Chart Breakdown Example

Song Title - Song Artist (Background Color Denotes Difficulty)

BPM	BPM Value	Stepartist	Stepartist Name
Difficulty	Difficulty Value	Total Steps	Number of Steps

**Simple Breakdown (more useful):** A break must be a measure or longer, otherwise a stream will not be considered broken. **RED TEXT** denotes stream, **BLUE TEXT** denotes break. **GREEN TEXT** denotes footspeed.

**In-Depth Breakdown (more accurate):** Anything a beat or longer is a break. Broken up streams are chained together by hyphens (-). Footspeed transitions are marked with slashes (/). Colors same as above.

Total Stream	Stream Amount	Total Break	Break Amount
Length	Song Length	Length Adjusted	Song Length Adj.
Step Density	Steps/Second	Step Density Adj.	See Page 1

This section is used to help represent unquantifiable data.

Total Footspeed	FS Amount	Footspeed BPM	BPM Amount
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## Katayoku no Tori - Hommarju feat. Mamiko

BPM	220	Stepartist	Aoreo
Difficulty	19+	Total Steps	3053 (3 Jumps)

Simple Breakdown: **42** - 10.5 - **73.5** - 49.5 - 24 - 3 - **42**

In-Depth Breakdown: **42** - 10.5 - **73.5** - 49.5 - 24 - 3 - **42**

Total Stream	181.5 Measures	Total Break	63 Measures
Length	4:28	Length Adjusted	4:26
Step Density	11.38	Step Density Adj.	11.48

This is one of the more well known files from the pack. No breaks mid-stream or anything, so it is quite the beast. The big break towards the end is the only thing preventing it from being a 20. Medium patterns.

## Katayoku no Tori - Hommarju feat. Mamiko

BPM	220	Stepartist	Aoreo
Difficulty	18-	Total Steps	2741 (16 Jumps)

Simple Breakdown: **12** - 12 - 12 - 1 - **2** - 1 - **2** - 10.5 - **22.5** - 1 - **4.5** - 1.5 - **30** - 1 - **2** - 1 - **9** - 61 - **12** - 3 - **23** - 1 - **15** - 2 - **1.5**

In-Depth Breakdown: **12** - 12 - 12 - 1.25 - **1.75** - 1.25 - **1.75** - 10.5 - **12** - 10.5 - 1.25 - **4.5** - 1.5 - **30** - 1.25 - **1.75** - 1.25 - **9.25** - 61.25 - **12.25** - 3 - **22.75** - 1.25 - **14.75** - 1.75 - **1.5**

Total Stream	146.75 Measures	Total Break	96.5 Measures
Length	4:28	Length Adjusted	4:26
Step Density	10.17	Step Density Adj.	10.30

This is essentially the easy chart with an added stream before the big break. Considering how borderline the previous file was, that seemed to be enough to tip this chart over the edge into 18 territory.

## Katayoku no Tori - Hommarju feat. Mamiko

BPM	220	Stepartist	Aoreo
Difficulty	19-	Total Steps	2868 (10 Jumps)

Simple Breakdown: **12** - 12 - **18** - 10.5 - **23** - 1 - **4.5** - 1.5 - **30** - 1 - **2** - 1 - **9** - 49.5 - **24** - 3 - **23** - 1 - **18**

In-Depth Breakdown: **12** - 12 - **18** - 10.5 - **22.75** - 1.25 - **4.5** - 1.5 - **30** - 1.25 - **1.75** - 1.25 - **9.25** - 49.5 - **24** - 3 - **22.75** - 1.25 - **18**

Total Stream	163 Measures	Total Break	81.5 Measures
Length	4:28	Length Adjusted	4:26
Step Density	10.66	Step Density Adj.	10.78

This is essentially the previous chart except most of the small breaks are now gone, along with the break at the end being shorter, making the ending run longer. Removing the breaks makes this a way harder chart.

## Last Chance - Albino Ghost Monkey

BPM	219	Stepartist	Aoreo
Difficulty	17-	Total Steps	1203 (3 Jumps)

Simple Breakdown: **16** - 24 - **32**

In-Depth Breakdown: **40** - **16** - 24 - **32** - 15.5

Total Stream	48 Measures	Total Break	24 Measures
Length	2:30	Length Adjusted	2:11
Step Density	8.00	Step Density Adj.	9.18

This is a very similar breakdown to Anguish from Speedcore 3, which is generally known a baseline 17. This chart has intentionally difficult patterns, more so than Anguish, but is also a very low 17.

## Last Chance - Albino Ghost Monkey

BPM	219	Stepartist	Aoreo
Difficulty	17+	Total Steps	1379 (3 Jumps)

Simple Breakdown: **24** - 16 - **40**

In-Depth Breakdown: **40** - **24** - 16 - **40** - 15.5

Total Stream	64 Measures	Total Break	16 Measures
Length	2:30	Length Adjusted	2:11
Step Density	9.17	Step Density Adj.	10.53

This is a lesson on how proximity can drastically change the difficulty of a chart. While on paper it doesn't seem too bad, it is actually pretty upper. Originally it was rated an 18. The patterns are also really hard.

Last Chance - Albino Ghost Monkey			
BPM	219	Stepartist	@@
Difficulty	19-	Total Steps	1524 (4 Jumps)
Simple Breakdown: <b>3 - 1 - 47 - 1 - 40</b>			
In-Depth Breakdown: <b>28 - 3 - 1 - 32.75 - 0.25 - 1.75 - 0.25 - 1.75 - 0.25 - 1.75 - 0.25 - 1.75 - 0.25 - 1.75 - 0.25 - 1.75 - 0.25 - 1.75 - 1 - 40.25</b>			
Total Stream	88.25 Measures	Total Break	3.75 Measures
Length	2:30	Length Adjusted	2:11
Step Density	10.13	Step Density Adj.	11.63
This is an edit chart since Aoreo submitted the original song. @@ thought it could've been a much harder chart. It is still pretty borderline as it is, but it intentionally has the hardest patterning possible.			

Long Invulnerability - X Kirby			
BPM	210	Stepartist	Arvin
Difficulty	17+	Total Steps	1979 (0 Jumps)
Simple Breakdown: <b>2 - 16 - 32 - 8 - 28 - 4 - 24 - 8 - 8</b>			
In-Depth Breakdown: <b>30 - 1.75 - 16.25 - 31.75 - 8.25 - 7.75 - 0.25 - 20 - 4 - 7.75 - 0.25 - 15.75 - 8.25 - 7.75 - 16.25</b>			
Total Stream	92.5 Measures	Total Break	37.25 Measures
Length	3:22	Length Adjusted	3:21
Step Density	9.80	Step Density Adj.	9.85
This is a decently hard 17, but there still is a ways to go before you can compare it to other 210 BPM files like the "18" to Stay In Your Room With K from Sharpnelstreamz v2. The patterning is pretty rough in this.			

Long Invulnerability - X Kirby			
BPM	210	Stepartist	Arvin
Difficulty	18	Total Steps	2431 (0 Jumps)
Simple Breakdown: <b>100 - 4 - 40</b>			
In-Depth Breakdown: <b>16 - 15.75 - 0.25 - 47.75 - 0.25 - 15.75 - 0.25 - 20 - 4 - 7.75 - 0.25 - 15.75 - 0.25 - 15.75 - 16.25</b>			
Total Stream	138.5 Measures	Total Break	5.25 Measures
Length	3:22	Length Adjusted	3:21
Step Density	12.03	Step Density Adj.	12.09
This file is in a completely different ballpark than the medium chart. Most of the break has been taken out and the patterning is rough (same as the medium chart in sections the medium chart had stream).			

Long Invulnerability - X Kirby			
BPM	210	Stepartist	Arvin
Difficulty	18+	Total Steps	2783 (0 Jumps)
Simple Breakdown: <b>116 - 4 - 56</b>			
In-Depth Breakdown: <b>31.75 - 0.25 - 47.75 - 0.25 - 15.75 - 0.25 - 20 - 4 - 7.75 - 0.25 - 15.75 - 0.25 - 15.75 - 0.25 - 16</b>			
Total Stream	170.5 Measures	Total Break	5.5 Measures
Length	3:22	Length Adjusted	3:21
Step Density	13.78	Step Density Adj.	13.84
This is essentially the hard chart with added stream. Originally rated as a 19 for its difficulty, this has very hard patterns (lots of boxes) and really very little break. Also, this is the better version of of the song, sorry Zaia.			

Marianne - Yooh			
BPM	200	Stepartist	Lolipo
Difficulty	17-	Total Steps	2801 (9 Jumps)
Simple Breakdown: <b>7 - 1 - 23 - 19 - 31 - 1 - 25 - 17 - 15 - 11 - 47 - 1 - 7</b>			
In-Depth Breakdown: <b>16 - 7 - 1 - 7 - 0.5 - 15.5 - 19 - 30.75 - 1.25 - 24.75 - 17.25 - 14.75 - 1.25 - 46.75 - 1.25 - 7 - 0.75 - 0.25</b>			
Total Stream	153.75 Measures	Total Break	42.25 Measures
Length	4:19	Length Adjusted	4:14
Step Density	11.78	Step Density Adj.	11.02
The patterning in this alternates between normal difficulty and very hard. Luckily, the breaks are somewhat forgiving, especially towards the end of the chart. This song is poppin'.			

Mathsma Attack - Blitz Lunar			
BPM	225	Stepartist	Aoreo
Difficulty	18+	Total Steps	1725 (0 Jumps)
Simple Breakdown: <b>2 - 2 - 26 - 17 - 17 - 1 - 3 - 3.5 - 37</b>			
In-Depth Breakdown: <b>13.75 - 2 - 2 - 26.25 - 17 - 17 - 1 - 1 - 0.75 - 1 - 3.5 - 1.25 - 0.5 - 1.25 - 0.5 - 1.25 - 0.5 - 1.25 - 0.5 - 1.25 - 0.5 - 1.25 - 0.5 - 1.25 - 0.5 - 1.25 - 0.5 - 2.75 - 0.75 - 1 - 0.75 - 1 - 0.75 - 1.25 - 0.5 - 16 - 0.5</b>			
Total Stream	78 Measures	Total Break	30.5 Measures
Length	2:34	Length Adjusted	2:19
Step Density	11.20	Step Density Adj.	12.41
The in-depth breakdown for this is a mess. This is a pretty hard 18 with really hard patterns. Song also is super good. The BPM is variable (not to the extent of Caspersen's Secret Fetish), but stream is generally 225 BPM.			



# THE APOCALYPSE SAMPLER

9/19

Miasma - The Black Dahlia Murder			
BPM	222.4	Stepartist	Dark Xuxa
Difficulty	18	Total Steps	3271 (137 Jumps)
Simple Breakdown: 2 - 1 - 12 - 17.5 - 14 - 5 - 1 - 6 - 1.5 - 4 - 1 - 1 - 1.5 - 1 - 3.5 - 6.5 - 19 - 35.5 - 7 - 4 - 4 - 6 - 24 - 1 - 17 - 1 - 23 - 1 - 6			
In-Depth Breakdown: 9 - 2 - 1 - 12 - 12 - 0.5 - 5 - 2-12 - 5 - 1 - 6 - 1.5 - 2.5 - 0.5 - 1 - 0.5-0.5 - 1 - 0.5-0.5-0.5 - 1 - 0.5-0.5-1-0.5-0.5-0.5 - 1 - 0.5 - 5 - 6.5 - 0.5 - 12 - 35.5 - 7 - 4 - 4 - 6 - 24 - 1 - 12-5 - 1 - 6-12-5 - 1 - 6 - 5			
Total Stream	137.5 Measures	Total Break	89.5 Measures
Length	4:41	Length Adjusted	4:35
Step Density	11.15	Step Density Adj.	11.89

This chart is really dated and bad. The patterns are really "interesting" and consist of many towers. The breaks are also dense. Unfortunately the breakdown is rounded to half measures in the breakdown so it'd fit.

Miasma - The Black Dahlia Murder			
BPM	222.4	Stepartist	Aoreo
Difficulty	19	Total Steps	3386 (26 Jumps)
Simple Breakdown: 3 - 3 - 2 - 1 - 12 - 11 - 1 - 4.5 - 1.5 - 11 - 6 - 5 - 39.5 - 11 - 1 - 22 - 13.5 - 1 - 2 - 3.5 - 11.5 - 2 - 23.5 - 0.5 - 59.5			
In-Depth Breakdown: 3 - 3 - 3 - 2 - 1 - 12 - 11 - 1 - 4.5 - 1.5 - 11 - 6 - 5 - 1.5-2.5-2.5 - 0.5 - 2.5-0.5-2-4 - 0.5 - 11 - 0.5 - 5.5-6 - 11 - 1 - 16.5 - 0.5 - 5 - 6.5-2-2.5-1-0.5-1 - 1 - 0.5-1-0.5 - 3.5 - 11.5 - 2 - 23.5 - 0.5 - 23.5-36 - 6			
Total Stream	175 Measures	Total Break	77.5 Measures
Length	4:41	Length Adjusted	4:37
Step Density	11.96	Step Density Adj.	12.22

Unfortunately the breakdown is rounded to half measures again because 3/4 time sucks. The patterns are much more turny than in the CV chart, with many streams now added and/or connected.

Miasma - The Black Dahlia Murder			
BPM	222.4	Stepartist	Archi
Difficulty	20+	Total Steps	3863 (8 Jumps)
Simple Breakdown: 29 - 1 - 27.25 - 1 - 24.5 - 1 - 42.5 - 4.5 - 45.25 - 2 - 71.75			
In-Depth Breakdown: 11.25 - 0.75 - 11.75 - 0.25 - 5 - 1 - 3 - 0.25 - 2.75 - 0.5 - 5.5 - 0.5 - 11.5 - 0.5 - 2.75 - 1 - 2.25-2.25 - 0.5 - 2.5-17 - 1 - 11 - 0.5 - 17.25 - 0.5 - 5.75-7.5 - 4.5 - 11-22.25 - 0.75 - 11.25 - 2 - 23 - 0.75 - 48 - 6			
Total Stream	234.5 Measures	Total Break	15.25 Measures
Length	4:41	Length Adjusted	4:37
Step Density	13.72	Step Density Adj.	13.95

Archi's chart fortunately has so much stream no rounding is necessary! This one is quite the beast. Patterns are really, really hard and there really aren't any forgiving parts. Have fun.

Never Gunna Say Real Battle - AleX Tune			
BPM	240	Stepartist	Parrax
Difficulty	18	Total Steps	1766 (20 Jumps)
Simple Breakdown: 3 - 1 - 7 - 2 - 15 - 5 - 3 - 1 - 3 - 1 - 2 - 2 - 3 - 5 - 3 - 1 - 2 - 2 - 3 - 1 - 1 - 1 - 7 - 1 - 1 - 21 - 7 - 1 - 7 - 1 - 7 - 1 - 7			
In-Depth Breakdown: 24 - 3 - 1 - 3.25 - 0.75 - 3.25 - 1.75 - 7.25 - 0.75 - 7.25 - 4.75 - 3 - 1 - 3 - 1 - 2 - 2 - 3.25 - 4.75 - 3 - 1 - 2 - 2 - 3 - 1 - 1 - 1 - 1.25 - 0.75 - 5 - 1 - 1 - 21 - 7.25 - 0.75 - 7.25 - 0.75 - 7.25 - 0.75 - 7.25 - 6			
Total Stream	80.5 Measures	Total Break	47.75 Measures
Length	2:41	Length Adjusted	2:37
Step Density	10.84	Step Density Adj.	11.25

The last 10 measures of the 21 measure break towards the end are really dense, with roughly 12 arrows a measure. The patterns are fairly easy throughout the song.

No More Faking - Goreshit			
BPM	214	Stepartist	Aoreo
Difficulty	20-	Total Steps	4471 (0 Jumps)
Simple Breakdown: 79 - 1 - 79 - 1 - 32 - 1 - 47 - 1 - 32			
In-Depth Breakdown: 16 - 78.75 - 1.25 - 78.75 - 1.25 - 32 - 1 - 46.75 - 1.25 - 32 - 7.5 - 0.5			
Total Stream	269 Measures	Total Break	4 Measures
Length	5:33	Length Adjusted	5:24
Step Density	13.43	Step Density Adj.	13.80

The patterns alternate between kind of hard and extremely hard. This chart is probably the most borderline file in the pack, but it is the patterns that are said to push it over the edge. Archi please don't be mad.

Oprah's Last Stand - dbk2			
BPM	256	Stepartist	Aoreo
Difficulty	16+	Total Steps	1182 (1 Jump)
Simple Breakdown: 8 - 19 - 1 - 6 - 8 - 3 - 5 - 31 - 1 - 11 - 1			
In-Depth Breakdown: 14 - 8 - 19 - 1 - 1.5 - 0.5 - 4 - 8 - 3 - 5 - 31 - 1 - 11 - 1 - 5.25 - 0.75 - 15.25 - 0.75 - 16			
Total Stream	26 Measures	Total Break	90 Measures
Length	2:38	Length Adjusted	2:26
Step Density	7.47	Step Density Adj.	8.10

All of the stream for this chart is at 240, not 256. Once the 256 starts, there is a significantly long 12th run, but it doesn't add much to the difficulty. The patterns are relatively hard.

# CHART BREAKDOWNS

# THE APOCALYPSE SAMPLER

10/19

## Oprah's Last Stand - dbk2

BPM	256	Stepartist	Aoreo
Difficulty	17	Total Steps	1254 (1 Jump)
Simple Breakdown: 15 - 12 - 1 - 6 - 16 - 30 - 1 - 11 - 1			
In-Depth Breakdown: 14 - 15 - 12 - 1 - 1.5 - 0.5 - 4 - 16 - 31 - 1 - 11 - 1 - 5.25 - 0.75 - 15.25 - 0.75 - 16			
Total Stream	36 Measures	Total Break	79 Measures
Length	2:38	Length Adjusted	2:26
Step Density	7.93	Step Density Adj.	8.59

Like the easy chart, all of the stream is in the 240 BPM section of the song. This is really just the easy chart with some of the stream in the beginning connected together.

## Oprah's Last Stand - dbk2

BPM	256	Stepartist	Aoreo
Difficulty	19-	Total Steps	1318 (1 Jump)
Simple Breakdown: 15 - 12 - 1 - 6 - 16 - 31 - 1 - 11 - 1 - 21 - 17			
In-Depth Breakdown: 14 - 15 - 12 - 1 - 1.5 - 0.5 - 4 - 16 - 31 - 1 - 11 - 1 - 5.25 - 0.75 - 15.25 - 16.75			
Total Stream	52 Measures	Total Break	79 Measures
Length	2:38	Length Adjusted	2:26
Step Density	8.33	Step Density Adj.	9.03

This is literally the same as the medium chart except there is now a run during the last 16 measures of the song at 256 instead of 240. The patterns in the end run are comparable to the other stream at 240.

## Oprah's Last Stand - dbk2

BPM	256	Stepartist	Aoreo
Difficulty	21+	Total Steps	1514 (1 Jump)
Simple Breakdown: 15 - 12 - 1 - 6 - 16 - 31 - 1 - 11 - 1 - 5 - 33			
In-Depth Breakdown: 14 - 15 - 12 - 1 - 1.5 - 0.5 - 4 - 16 - 31 - 1 - 11 - 1 - 5.25 - 32.75			
Total Stream	67.25 Measures	Total Break	63.75 Measures
Length	2:38	Length Adjusted	2:26
Step Density	9.58	Step Density Adj.	10.37

This is the same as the hard chart except now the ending run is doubled. Patterns are candy throughout the chart, so it is fairly easy to fail, especially in a run the size of the one at the end.

## Polaris - FearOfDark

BPM	249.1	Stepartist	Fraxtil
Difficulty	18-	Total Steps	2100 (7 Jumps)
Simple Breakdown: 2 - 1 - 3 - 1 - 7 - 49.5 - 2.5 - 1 - 3 - 1 - 3 - 1 - 7.5 - 1.5 - 2 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 41 - 1 - 8 - 2 - 1 - 3 - 1 - 2.5 - 1 - 6			
In-Depth Breakdown: 4 - 2 - 1 - 3 - 1 - 4.5 - 0.5 - 2 - 49.5 - 2.5 - 1 - 3 - 1 - 3 - 1 - 2.5 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 1.5 - 2 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 41 - 1 - 8 - 2 - 1 - 3 - 1 - 2.5 - 1 - 1-1-1-1-1 - 45.5			
Total Stream	53.5 Measures	Total Break	115 Measures
Length	3:53	Length Adjusted	3:44
Step Density	8.98	Step Density Adj.	9.38

The patterns in this alternate between fairly easy and what would probably be considered medium difficulty. The big break in this is really nice, with 8th notes being most of it.

## Polaris - FearOfDark

BPM	249.1	Stepartist	Fraxtil
Difficulty	18+	Total Steps	2148 (7 Jumps)
Simple Breakdown: 2 - 1 - 3 - 1 - 7 - 49.5 - 19 - 1.5 - 2 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 3 - 41 - 1 - 8 - 14 - 1 - 6			
In-Depth Breakdown: 4 - 2 - 1 - 3 - 1 - 4.5 - 0.5 - 2 - 49.5 - 14 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 1.5 - 2 - 1 - 3 - 1 - 3 - 1 - 3 - 41 - 1 - 8 - 14 - 1 - 1-1-1-1-1 - 45.5			
Total Stream	63 Measures	Total Break	110 Measures
Length	3:53	Length Adjusted	3:44
Step Density	9.19	Step Density Adj.	9.59

This is essentially the same as the easy chart with slightly more connected runs. The patterns are exactly the same as in the easy chart. It is only marginally more difficult than the easy chart because of this.

## Polaris - FearOfDark

BPM	249.1	Stepartist	Fraxtil
Difficulty	20+	Total Steps	2312 (7 Jumps)
Simple Breakdown: 15 - 49.5 - 53.5 - 40 - 1 - 8 - 20			
In-Depth Breakdown: 4 - 11.5 - 0.5 - 3 - 49.5 - 53.5 - 40 - 1 - 8 - 13.5 - 0.5 - 1-1-1-1-1 - 45.5			
Total Stream	88.5 Measures	Total Break	98.5 Measures
Length	3:53	Length Adjusted	3:44
Step Density	9.89	Step Density Adj.	10.32

The patterns are the same as in the medium chart, however almost all of the runs in said chart have now been connected, making there significantly less resting time in between the two large breaks.

# CHART BREAKDOWNS

# THE APOCALYPSE SAMPLER

11/19

## Polaris - FearOfDark

BPM	249.1	Stepartist	Fraxtil
Difficulty	21	Total Steps	2655 (2 Jumps)
Simple Breakdown: 15 - 1 - 16 - 31.5 - 53.5 - 1 - 16 - 23 - 1 - 8 - 22			
In-Depth Breakdown: 4 - 11.5 - 0.5 - 3 - 1 - 16 - 31.5 - 53.5 - 1 - 16 - 23 - 1 - 8 - 13.5 - 0.5 - 8 - 44			
Total Stream	122.5 Measures	Total Break	65.5 Measures
Length	3:53	Length Adjusted	3:44
Step Density	11.39	Step Density Adj.	11.85

This is the hard chart with even less break in between runs and now some of the large break is removed to make way for stream. Added runs have comparable patterns to those in the other difficulties.

## Ring of Fire - Dragonforce

BPM	220	Stepartist	Janus5k
Difficulty	19+	Total Steps	2684 (19 Jumps)
Simple Breakdown: 80 - 4 - 1.5 - 2 - 34 - 2 - 42			
In-Depth Breakdown: 8 - 80 - 4.25 - 1.5 - 2.25 - 34 - 2 - 42			
Total Stream	157.5 Measures	Total Break	8.5 Measures
Length	3:15	Length Adjusted	3:10
Step Density	13.67	Step Density Adj.	14.13

This is a pretty borderline chart. The patterns are very relentless and being one of the densest files in the pack, much of the break is fairly dense on its own.

## Scarlet Tempest - Fudanshi Crisis

BPM	165	Stepartist	Aoreo
Difficulty	19	Total Steps	1453 (4 Jumps)
Simple Breakdown: 8/4.5/1/4.5/1/4.5/1/6 - 8.5 - 1-1-2 - 2 - 1/2-1.5/5 - 8 - 8/24 - 7 - 1			
In-Depth Breakdown: 11 - 8/4.5/1/4.5/1/4.5/1/6 - 8.5 - 0.5/0.75/0.25 - 0.25 - 1-2 - 2 - 0.75/2-1.5/5 - 8 - 8/24 - 3.5 - 0.5 - 1.5 - 0.5 - 1 - 1 - 4			
Total Stream	78.25 Measures	Total Break	24.75 Measures
Length	2:30	Length Adjusted	2:25
Step Density	9.66	Step Density Adj.	10.02

The patterns in both the 16ths and the 24ths are both pretty tame besides the last run. Fudanshi Crisis was made by Aoreo, pretty cool!

Total Footspeed	47.75 Measures	Footspeed BPM	247.5
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## Something Special - Gen-Ohm

BPM	200	Stepartist	Arvin
Difficulty	18	Total Steps	4419 (1 Jump)
Simple Breakdown: 16 - 6 - 23 - 1 - 16 - 8 - 20 - 2 - 65 - 33 - 30 - 2 - 96			
In-Depth Breakdown: 10 - 16 - 6 - 23 - 1 - 16 - 8 - 20 - 2 - 1.5 - 0.5 - 7.5 - 0.5 - 23.5 - 0.5 - 31 - 33 - 30 - 2 - 15.25 - 0.25 - 16 - 0.5 - 64 - 7			
Total Stream	263.75 Measures	Total Break	54.25 Measures
Length	6:50	Length Adjusted	6:30
Step Density	10.78	Step Density Adj.	11.33

The patterns in this alternate between tame and medium difficulty. The break in the middle helps a ton. If you could believe it, this song was sped up from 175.

## Stir Fry Jungle - Ceephax

BPM	199	Stepartist	@@
Difficulty	18+	Total Steps	3946 (0 Jumps)
Simple Breakdown: 80 - 8 - 165			
In-Depth Breakdown: 2.5 - 79.75 - 8.25 - 16.25-0.5-0.5-0.5-0.5-0.5-0.5-0.5-0.5-111.25-33.75			
Total Stream	245 Measures	Total Break	8.25 Measures
Length	5:20	Length Adjusted	5:11
Step Density	12.33	Step Density Adj.	12.69

The BPM changes slightly in certain sections, so the break in the middle happens to be slightly longer than what 8.25 measures at 199 would feel like. The patterns in this are really hard, think Spiral from Pendulum.

## SuperSmash Sonic Kombat - Gizmode

BPM	210	Stepartist	Aoreo
Difficulty	18	Total Steps	2789 (62 Jumps)
Simple Breakdown: 37.5 - 2.5 - 33 - 1 - 21.5 - 3.5 - 15 - 1 - 25.5 - 34 - 27			
In-Depth Breakdown: 37.5 - 2.5 - 15.5 - 0.5 - 3.5 - 0.5 - 3.5 - 0.5 - 9 - 1 - 21.5 - 3.5 - 3 - 0.5 - 3.5 - 0.5 - 7.5 - 1 - 8 - 0.5 - 8 - 0.5 - 8.5 - 34 - 1.5 - 0.5 - 1.5 - 0.5 - 1.5 - 0.5 - 1.5 - 0.5 - 1.5 - 0.5 - 6.5-2.5 - 0.5 - 5.5			
Total Stream	152.5 Measures	Total Break	49 Measures
Length	3:59	Length Adjusted	3:53
Step Density	11.41	Step Density Adj.	11.97

The patterns in this are not too bad. While the breakdown seems decently intimidating, the breaks make this a pretty easy 18, especially the big one near the end.

# CHART BREAKDOWNS

# THE APOCALYPSE SAMPLER

12/19

The Formula (Extended Mix) - Junk			
BPM	144	Stepartist	Fraxtil
Difficulty	12-	Total Steps	1285 (14 Jumps)
Simple Breakdown: 2 - 16 - 7 - 18 - 8 - 9 - 16 - 11.5 - 4.5 - 14 - 2			
In-Depth Breakdown: 6 - 2 - 16 - 7 - 18 - 0.75 - 0.25 - 7 - 9 - 16 - 11.5 - 4.5 - 14 - 2			
Total Stream	46.25 Measures	Total Break	68.75 Measures
Length	3:11	Length Adjusted	3:03
Step Density	6.65	Step Density Adj.	7.02
The breaks in this chart are actually pretty dense, hence the high step count for a 12. This file is pretty borderline though, so sorry if this rating offends anyone.			

The Formula (Extended Mix) - Junk			
BPM	216	Stepartist	Fraxtil
Difficulty	15+	Total Steps	1793 (1 Jump)
Simple Breakdown: 11.5 - 39.5 - 11.5 - 84.5 - 23.5			
In-Depth Breakdown: 2.5 - 0.5 - 2.5 - 0.5 - 5.5 - 39.5 - 11.5 - 84.5 - 23.5			
Total Stream	45.5 Measures	Total Break	125 Measures
Length	3:11	Length Adjusted	3:10
Step Density	9.38	Step Density Adj.	9.43
Much of the break is actually 144 BPM stream, but that's impossible to see, whoops. The 216 BPM stream has easy patterns. Since the song is 144 BPM, values have been pre-emptively been multiplied by 1.5.			

The Formula (Extended Mix) - Junk			
BPM	216	Stepartist	Fraxtil
Difficulty	17	Total Steps	1989 (14 Jumps)
Simple Breakdown: 22.5 - 16.5 - 22.5 - 1.5 - 60			
In-Depth Breakdown: 24 - 22.5 - 16.5 - 22.5 - 1.5 - 60 - 24			
Total Stream	105 Measures	Total Break	18 Measures
Length	3:11	Length Adjusted	3:03
Step Density	10.34	Step Density Adj.	10.87
The patterning in this is really tame. There are barely any candles at all. Since the song is 144 BPM, values have been pre-emptively been multiplied by 1.5.			

The Formula (Extended Mix) - Junk			
BPM	216	Stepartist	Fraxtil
Difficulty	18	Total Steps	2497 (1 Jump)
Simple Breakdown: 11.5 - 12.5 - 22.5 - 4.5 - 34.5 - 1.5 - 84			
In-Depth Breakdown: 2.5 - 0.5 - 2.5 - 0.5 - 5.5 - 12.5 - 22.5 - 4.5 - 11.5 - 0.5 - 22.5 - 1.5 - 84			
Total Stream	151 Measures	Total Break	20 Measures
Length	3:11	Length Adjusted	3:10
Step Density	13.07	Step Density Adj.	13.14
The middle has easier patterns compared to the beginning and ending, but in comparison to other chartis in this pack, it's all easy. Since the song is 144 BPM, values have been pre-emptively been multiplied by 1.5.			

The Last Battle - Xi			
BPM	210	Stepartist	Arvin
Difficulty	17-	Total Steps	2246 (5 Jumps)
Simple Breakdown: 24.5 - 14 - 18 - 23 - 20 - 2 - 1 - 1 - 7 - 2 - 2 - 2 - 2 - 2 - 2 - 16 - 7 - 9 - 7 - 19			
In-Depth Breakdown: 7.5 - 24.5 - 14 - 18 - 23 - 6 - 0.75 - 13.25 - 2 - 1 - 1 - 1 - 0.5 - 5.5 - 2 - 2 - 2 - 2 - 2 - 1.75 - 16.25 - 7 - 9 - 7 - 10 - 0.75 - 8.25			
Total Stream	118.75 Measures	Total Break	63.75 Measures
Length	3:41	Length Adjusted	3:37
Step Density	10.14	Step Density Adj.	10.35
This is the expert chart with much of the stream removed. The streams that have been retained are actually for the most part those with hard patterns.			

The Last Battle - Xi			
BPM	210	Stepartist	Arvin
Difficulty	18	Total Steps	2788 (5 Jumps)
Simple Breakdown: 56.5 - 15 - 28 - 2 - 1 - 1 - 79			
In-Depth Breakdown: 7.5 - 56.5 - 14.75 - 14.25 - 0.75 - 13.25 - 2 - 1 - 1 - 1 - 0.5 - 18.5 - 0.75 - 49.25 - 0.75 - 8.25			
Total Stream	162 Measures	Total Break	20.5 Measures
Length	3:41	Length Adjusted	3:37
Step Density	12.59	Step Density Adj.	12.85
The patterns in this chart alternate between medium and hard, with most of the difficult patterning being due to a lot of turns instead of candles. The long break is fairly dense.			

# CHART BREAKDOWNS

The Power (Break's Over) - 40oz. To Life			
BPM	227	Stepartist	@@
Difficulty	21-	Total Steps	4872 (94 Jumps)
Simple Breakdown: 2 - 6 - 2 - 22 - 2 - 7 - 18 - 16 - 140 - 32 - 78			
In-Depth Breakdown: 53.75 - 2.25 - 5.75 - 2.25 - 22 - 2 - 6 - 18 - 16 - 3.75 - 7.75 - 7.75 - 7.75 - 7.75 - 7.75 - 7.75 - 7.75 - 23.75 - 7.75 - 7.75 - 7.75 - 7.75 - 7.75 - 7.75 - 3.75 - 32 - 27.75 - 7.75 - 7.75 - 7.75 - 7.75 - 7.75 - 3.75			
Total Stream	242 Measures	Total Break	81.75 Measures
Length	6:54	Length Adjusted	6:46
Step Density	11.54	Step Density Adj.	12.00
This is most similar to the chart from Speedcore 3, basically meaning the ending stream has small breaks every 8 measures or so to the music. The breaks in the beginning are relatively dense, but the ending break is not.			

The Power (Break's Over) - 40oz. To Life			
BPM	227	Stepartist	@@
Difficulty	22-	Total Steps	5309 (43 Jumps)
Simple Breakdown: 16 - 8 - 40 - 16 - 144 - 16 - 96			
In-Depth Breakdown: 48 - 16 - 8 - 40 - 16 - 144 - 16 - 96			
Total Stream	296 Measures	Total Break	40 Measures
Length	6:54	Length Adjusted	6:46
Step Density	12.72	Step Density Adj.	13.08
Hard patterns, same as the expert chart but with some of the stream in the beginning removed and a small break added halfway through the ending stream. Pretty borderline, but definitely 100% indisputably a 22.			

The Power (Break's Over) - 40oz. To Life			
BPM	227	Stepartist	@@
Difficulty	22+	Total Steps	5719 (10 Jumps)
Simple Breakdown: 8 - 24 - 15 - 1 - 64 - 2 - 1.5 - 2.5 - 1.5 - 8.5 - 256			
In-Depth Breakdown: 8 - 24 - 15 - 1 - 64 - 2 - 1.5 - 2.5 - 1.5 - 8.5 - 256			
Total Stream	346 Measures	Total Break	38 Measures
Length	6:54	Length Adjusted	6:46
Step Density	13.79	Step Density Adj.	14.06
This is one of the hardest stamina charts in the pack. It only exists because the original "17" to this is so easy that a player may feel lied to when it says "Break's Over". Hard patterns, lots of candles.			

Transparent - DJ Noriken			
BPM	210	Stepartist	Zaia
Difficulty	17-	Total Steps	2839 (76 Jumps)
Simple Breakdown: 47.5 - 32 - 1 - 1.5 - 1 - 2.5 - 1 - 1 - 4 - 13 - 4 - 3 - 32 - 32 - 31			
In-Depth Breakdown: 33.5 - 47.5 - 32 - 1 - 1.5 - 0.75 - 2.75 - 1.25 - 1 - 0.75 - 0.5 - 0.5 - 0.75 - 1 - 12.75 - 3.75 - 3.25 - 32 - 32 - 31 - 17			
Total Stream	120.25 Measures	Total Break	85.75 Measures
Length	5:03	Length Adjusted	4:53
Step Density	9.12	Step Density Adj.	9.69
This is one of the easiest files in the pack, but it manages to solidify itself into the lower 17 block. The patterns are pretty hard, especially for 210. That is probably what pushes it into the 17 block.			

Troubleshoot Test - AleX Tune			
BPM	200	Stepartist	Parrax
Difficulty	17+	Total Steps	3555 (14 Jumps)
Simple Breakdown: 103 - 2 - 30 - 80 - 30 - 2 - 32			
In-Depth Breakdown: 103.25 - 2 - 13.25 - 0.75 - 16 - 80 - 30 - 2 - 32			
Total Stream	195 Measures	Total Break	84.75 Measures
Length	5:41	Length Adjusted	5:35
Step Density	10.38	Step Density Adj.	10.62
This chart is literally the same as the expert except the first 30 measure stream after the big break is removed. This is still a pretty hard 17. Parrax didn't originally have a hard chart to this file. It was made by @@.			

Troubleshoot Test - AleX Tune			
BPM	200	Stepartist	Parrax
Difficulty	18-	Total Steps	3915 (14 Jumps)
Simple Breakdown: 103 - 2 - 30 - 48 - 30 - 2 - 30 - 2 - 32			
In-Depth Breakdown: 103.25 - 2 - 13.25 - 0.75 - 16 - 48 - 30 - 2 - 30 - 2 - 32			
Total Stream	225 Measures	Total Break	54.75 Measures
Length	5:41	Length Adjusted	5:35
Step Density	11.44	Step Density Adj.	11.67
The patterning in this isn't too bad. Some runs, especially the one after the big break, have easier patterns. The big break is not dense at all, mostly consisting of measure long holds.			

# THE APOCALYPSE SAMPLER

14/19

Wash Away the Blood with Rain - Starkill			
BPM	190	Stepartist	Janus5k
Difficulty	17-	Total Steps	2827 (64 Jumps)
Simple Breakdown: 15 - 1 - 38 - 1 - 7 - 1 - 39 - 1 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 14 - 18 - 3 - 16			
In-Depth Breakdown: 16 - 15 - 1 - 38 - 1 - 7 - 1 - 39 - 1 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 14 - 1.75-9.75-6.75 - 3 - 16			
Total Stream	160.25 Measures	Total Break	39 Measures
Length	4:53	Length Adjusted	4:23
Step Density	9.43	Step Density Adj.	10.75
Don't let the break fool you, this is a 17. Yes, there is a lot of break, but most are very short and considering the amount of stream, especially at the beginning, they barely help. Patterns aren't too easy either.			

Wash Away the Blood with Rain - Starkill			
BPM	190	Stepartist	Janus5k
Difficulty	18	Total Steps	2900 (64 Jumps)
Simple Breakdown: 15 - 1 - 38 - 1 - 7 - 1 - 39 - 1 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 14 - 24 - 3 - 16			
In-Depth Breakdown: 16 - 15 - 1 - 38 - 1 - 7 - 1 - 39 - 1 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 14 - 2.25-12.25-9.75 - 3 - 16			
Total Stream	164.75 Measures	Total Break	39 Measures
Length	4:53	Length Adjusted	4:23
Step Density	9.68	Step Density Adj.	11.02
Same as the medium chart, except there are now 20ths towards the end. The patterning in the 20ths is not easy.			
Total Footspeed	24.25 Measures	Footspeed BPM	237.5

Wash Away the Blood with Rain - Starkill			
BPM	190	Stepartist	Janus5k
Difficulty	21-	Total Steps	2909 (64 Jumps)
Simple Breakdown: 15 - 1 - 38 - 1 - 7 - 1 - 39 - 1 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 14 - 5.5/8/10 - 3 - 16			
In-Depth Breakdown: 16 - 15 - 1 - 38 - 1 - 7 - 1 - 39 - 1 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 14 - 2.75-2.75/8-10.25 - 3 - 16			
Total Stream	165.75 Measures	Total Break	39 Measures
Length	4:53	Length Adjusted	4:23
Step Density	9.71	Step Density Adj.	11.06
Same as the medium chart, except there are now 24ths towards the end. The patterning in the 24ths is not easy, luckily there is a small break.			
Total Footspeed	15.75 Measures	Footspeed BPM	285

Wash Away the Blood with Rain - Starkill			
BPM	190	Stepartist	Janus5k
Difficulty	23-	Total Steps	2973 (64 Jumps)
Simple Breakdown: 15 - 1 - 38 - 1 - 7 - 1 - 39 - 1 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 14 - 27.75 - 3 - 16			
In-Depth Breakdown: 16 - 15 - 1 - 38 - 1 - 7 - 1 - 39 - 1 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 14 - 2.75-14.75-10.25 - 3 - 16			
Total Stream	169.75 Measures	Total Break	39 Measures
Length	4:53	Length Adjusted	4:23
Step Density	9.93	Step Density Adj.	11.30
Same as the expert chart, except now there is no break in the 24ths at the end. Patterning in the 24ths is still not easy.			
Total Footspeed	27.75 Measures	Footspeed BPM	285

Watashi Wa Mizuki Desu - Mizuki's Last Chance			
BPM	261	Stepartist	Aoreo
Difficulty	18-	Total Steps	1231 (1 Jump)
Simple Breakdown: 1.5 - 3 - 3.5 - 1.5 - 4.5 - 1.5 - 4.5 - 1.5 - 4.5 - 1.5 - 1.5 - 12 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1.5 - 1.5 - 1.5 - 13.5 - 1 - 5 - 1 - 2 - 1 - 10 - 1.5 - 3 - 1 - 5 - 1 - 2 - 1 - 10 - 1.5			
In-Depth Breakdown: 13.5 - 1.5 - 3 - 1.5 - 0.5 - 1.5 - 1.5 - 2.5 - 0.5 - 1.5 - 1.5 - 2.5 - 0.5 - 1.5 - 1.5 - 2.5 - 0.5 - 1.5 - 1.5 - 1.5 - 12 - [1-2]x7 - 1.5 - 1.5 - 1.5 - 13.5 - 1 - 5 - 1 - 2 - 1 - 10 - 1.5 - 3 - 1 - 5 - 1 - 10 - 1.5 - 4.5			
Total Stream	37 Measures	Total Break	89 Measures
Length	2:22	Length Adjusted	2:19
Step Density	8.66	Step Density Adj.	8.86
It is a shame this chart ruins the consistency of the readme. To clarify, it is meant by [1-2]x7 that the "1-2" section repeats itself 7 times. Same as the expert chart except that the beginning is more broken.			

Watashi Wa Mizuki Desu - Mizuki's Last Chance			
BPM	261	Stepartist	Aoreo
Difficulty	20-	Total Steps	1311 (1 Jump)
Simple Breakdown: 1.5 - 3 - 24.5 - 12 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1.5 - 1.5 - 1.5 - 1.5 - 1.5 - 13.5 - 1 - 5 - 1 - 2 - 1 - 10 - 1.5 - 3 - 1 - 5 - 1 - 2 - 1 - 10 - 1.5			
In-Depth Breakdown: 13.5 - 1.5 - 3 - 1.5 - 0.5 - 5.5 - 0.5 - 5.5 - 0.5 - 5.5 - 0.5 - 4.5 - 12 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1.5 - 1.5 - 1.5 - 1.5 - 1.5 - 13.5 - 1 - 5 - 1 - 2 - 1 - 10 - 1.5 - 3 - 1 - 5 - 1 - 2 - 1 - 10 - 1.5 - 4.5			
Total Stream	44.5 Measures	Total Break	84.5 Measures
Length	2:22	Length Adjusted	2:19
Step Density	9.23	Step Density Adj.	9.43
This breakdown is stupid and the only part that matters is the beginning. The patterns in this are extremely hard and are the primary driver of its difficulty rating.			

# CHART BREAKDOWNS

We Have To Know - AleX Tune			
BPM	220	Stepartist	Parrax
Difficulty	20-	Total Steps	4303 (1 Jump)
Simple Breakdown: 30.5 - 2 - 64 - 32 - 80 - 7.5 - 80.5			
In-Depth Breakdown: 31.5 - 0.5-30 - 2 - 64.25 - 32 - 80 - 7.5 - 80.5			
Total Stream	255.25 Measures	Total Break	41.5 Measures
Length	6:12	Length Adjusted	5:49
Step Density	11.56	Step Density Adj.	12.33
This has 30 more measures of stream than Caprice from Oh Henry!, as well as less break in between the streams. It may have easier patterns, especially in the end run, but that should be hard enough to make a 20.			

Witch Hunt - Zomby			
BPM	227.6	Stepartist	@@
Difficulty	18	Total Steps	1225 (3 Jumps)
Simple Breakdown: 30 - 2 - 30 - 18 - 14			
In-Depth Breakdown: 30 - 2 - 30 - 18 - 14 - 2			
Total Stream	74 Measures	Total Break	20 Measures
Length	1:46	Length Adjusted	1:41
Step Density	11.53	Step Density Adj.	12.13
This is the same chart as the expert except that the really quiet stream has been taken out. It is unclear if those are supposed to be jumps or two 16ths in succession in the break. The song has the latter.			

Witch Hunt - Zomby			
BPM	227.6	Stepartist	@@
Difficulty	19-	Total Steps	1449 (3 Jumps)
Simple Breakdown: 30 - 2 - 30 - 2 - 30			
In-Depth Breakdown: 30 - 2 - 30 - 2 - 30 - 2			
Total Stream	90 Measures	Total Break	4 Measures
Length	1:46	Length Adjusted	1:41
Step Density	13.64	Step Density Adj.	14.34
This is the shortest file in the pack. Patterns are medium difficulty, maybe a bit hard at 230. Be assured that stream towards the end is actually warranted, it is just really hard to hear, especially on a machine.			

Xenoflux - Ne Obliviscaris			
BPM	230	Stepartist	@@
Difficulty	21-	Total Steps	6915 (24 Jumps)
Simple Breakdown: 144.5 - 2 - 46 - 2 - 56 - 152 - 4 - 6 - 72 - 1.5 - 48			
In-Depth Breakdown: 96.5-48 - 1.75 - 46.25 - 1.75 - 72.25 - 152 - 4 - 6.25 - 5.5-46.75 - 1.5 - 48.25			
Total Stream	369.5 Measures	Total Break	163.25 Measures
Length	9:58	Length Adjusted	9:54
Step Density	11.52	Step Density Adj.	11.64
This is the longest file in the pack. It is important to note that the beginning 96 measure run is at 195, the following 170 is at 230, and after the three minute break, the small run is at 210, while the last 96 is at 221.			

Zombie TV (AleX Tune Remix) - JeDay			
BPM	220	Stepartist	Parrax
Difficulty	18	Total Steps	2024 (13 Jumps)
Simple Breakdown: 24.5 - 6 - 1 - 23 - 22.5 - 14.5 - 14 - 1.5 - 4 - 4 - 30			
In-Depth Breakdown: 22.25 - 8.5 - 0.25 - 7.75 - 0.25 - 7.75 - 6 - 4 - 0.25 - 3.75 - 0.25 - 5.75 - 0.25 - 1 - 22.75 - 4 - 0.25 - 2-1.75 - 0.25 - 3.75 - 0.25 - 10.25 - 14.5 - 11.75 - 0.25 - 2 - 1.5 - 4 - 4.25 - 15.25 - 0.75 - 12 - 4			
Total Stream	105.25 Measures	Total Break	52 Measures
Length	3:31	Length Adjusted	3:11
Step Density	9.53	Step Density Adj.	10.60
The patterns in this are decently hard but the breaks are nice and not very dense. Most of the difficulty in the patterns comes from turning rather than candles.			

Zombies - Kanji Kinetic			
BPM	262.5	Stepartist	Fraxtil
Difficulty	18	Total Steps	1320 (28 Jumps)
Simple Breakdown: [21 of High Density Bursts] - 2 - [22 of High Density Bursts] - 27 - [21 of Higher Density Bursts] - 2 - [22 of Medium Density Bursts]			
In-Depth Breakdown: 25 - [21 of High Density Bursts] - 2.25 - [22 of High Density Bursts] - 2.25 - 0.75 - 24 - [21 of Higher Density Bursts] - 2.25 - [22 of Medium Density Bursts] - 2.25 - 0.75			
Total Stream	45 Measures	Total Break	74.5 Measures
Length	2:12	Length Adjusted	2:12
Step Density	9.79	Step Density Adj.	10.00
This is another one of those files where a breakdown would be completely meaningless. Just trust the readme on the measure totals. The patterns are also really hard. This file is not to be underestimated.			

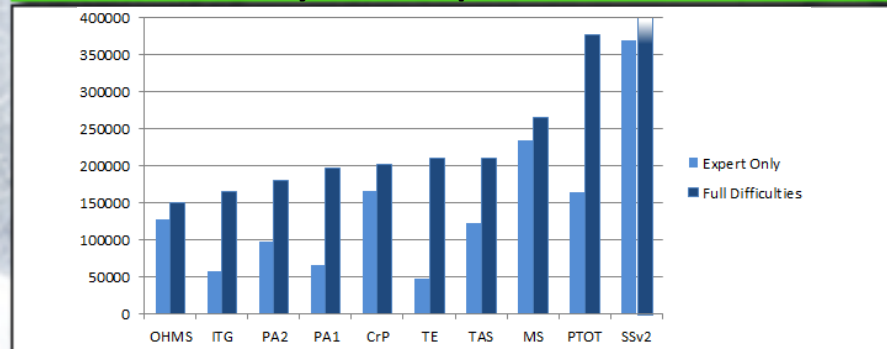
## COMPARED PACKS

Pack Name	Pack Description
The Apocalypse Sampler	Extremely hard pack meant to showcase diversity in hard stuff.
Cranked Pastry	Debatably the hardest stamina pack. Dark Psytrance themed.
ITG Officials (ITG 1 & 2)	The official charts released with In The Groove in 2005/2006.
Mute Sims 1 - 9	A popular series of easier packs notable for their size.
Oh Henry! Mad Stamina	Former hardest stamina pack, usurped by Cranked Pastry.
Pendulum Act 1	Revolutionary pack in the evolution of ITG stamina.
Pendulum Act 2	The harder sequel to the original Pendulum pack.
Sharpnelstreamz v2	Largest stamina pack. It is themed around DJ Sharpnel.
Tachyon Epsilon	Hardest footspeed pack. Novice charts are included for this one.

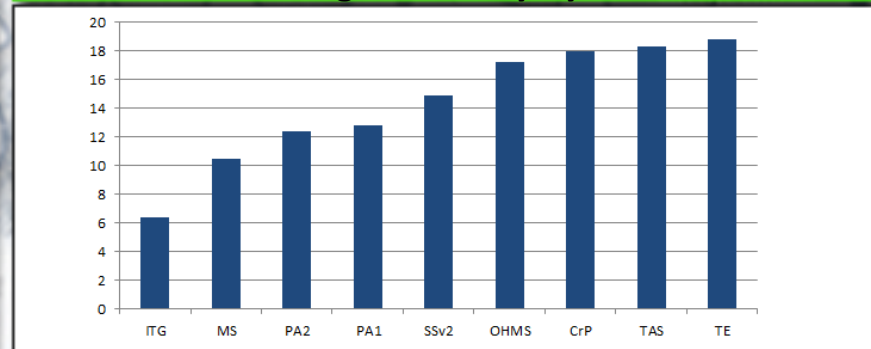
## COMPARISON OF PACK DATA

Pack Name	Avg. Difficulty	Inclusion Indicator	Total Charts	Total Arrows	Avg. Arrows
The Apocalypse Sampler	18.3	Expert Only	41	122307	2983
		Full Difficulties	78	210436	2698
Cranked Pastry	18.0	Expert Only	30	165726	5524
		Full Difficulties	37	201572	5448
ITG Officials (ITG 1 & 2)	6.4	Expert Only	113	58546	518
		Full Difficulties	524	165463	316
Mute Sims 1 - 9	10.5	Expert Only	311	234274	753
		Full Difficulties	369	265128	719
Oh Henry! Mad Stamina	17.2	Expert Only	38	127655	3359
		Full Difficulties	45	151037	3356
Pendulum Act 1	12.8	Expert Only	30	65860	2195
		Full Difficulties	120	196954	1694
Pendulum Act 2	12.4	Expert Only	20	98151	4908
		Full Difficulties	74	180129	2435
Sharpnelstreamz v2	14.9	Expert Only	146	369635	2532
		Full Difficulties	280	620777	2217
Tachyon Epsilon	18.8	Expert Only	30	47156	1571
		Full Difficulties	150	210009	1400

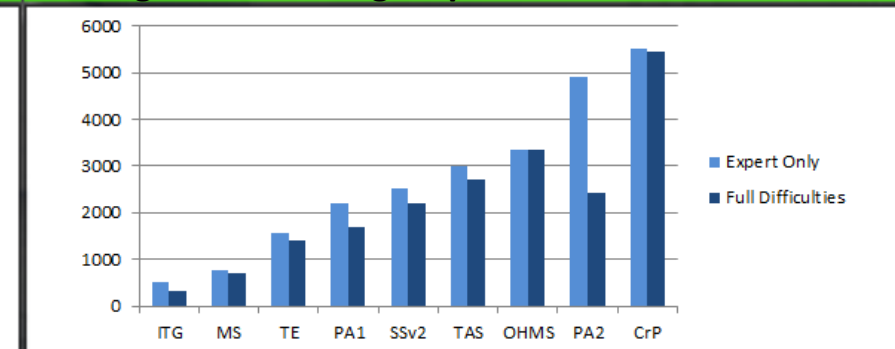
Total Arrows by Pack, Expert and Full Difficulties



Average Difficulty by Pack



Avg. Arrows/Song, Expert and Full Difficulties





## @@

Songs Stepped	7	Charts Stepped	12
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@@ is a new-school stamina steppartist who specializes in harder stamina charts. Previous packs by @@ include Makina Marathon, Cranked Pastry, and Oh Henry! Mad Stamina. @@ spearheaded the development of this pack and created this wonderful readme for us all to use. @@'s files are mostly stamina, but one may consider Chambers of Shaolin to be a footspeed/stamina hybrid.

### Graphics Credits:

The fallback banner and background use three images: WWIII by gokce4can, Water Spout by Desktopography, and Meteor Impact by Famous Buildings. The fallbacks also use the font Ark by Bagus Belo Prayago. The CD Title uses The Curious Cat by Misti's Fonts. The readme uses the font Impacted 2.0 by Foxy Fonts liberally.

## AOREO

Songs Stepped	10	Charts Stepped	22
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Aoreo steps a lot of songs at a breakneck speed. It shows even in this pack, where he has the most songs and charts stepped out of anyone by a decent margin. He has been stepping for almost a decade, but his most recent packs include the Jimmy Jawns and Beast Aoreo Beast series. Like in his own packs, his files in this pack are a good mix of footspeed and stamina. Aoreo also helped sync files that aren't his, so thanks for that.

### Graphics Credits:

The CD Title uses the likeness of Oreo by Cadbury company, both the image and the font, since he literally just added an "A" to the logo. Unfortunately, the fallback image for Jim's graphics is very common on wallpaper sites and none of them give attribution to the creator, so credit can not be given to whoever made these graphics. Jim also managed to forget the font he used and apparently he can't find out, so sorry about that.

## ARCHI

Songs Stepped	2	Charts Stepped	2
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Archi is the godfather of stamina charts. Since his releases in the Disbalance and Pendulum series of packs, the stamina scene has exploded and it is incredibly likely that without those packs, this pack wouldn't be here today. Let's all thank Archi. Consistent with the stuff he is known for, his files in this pack are difficult stamina files.

### Graphics Credits:

The fallback banner and background use the image Heaven and Hell by RedXen. The fallback graphics use the font Euphemia by Ross Mills, which is packaged with some version of Windows. Archi's CD Title uses the font An Unfortunate Event by The Flea Pit

## ARVIN

Songs Stepped	6	Charts Stepped	11
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Arvin is a steppartist that has been around a while, primarily stepping hard stuff. He has released packs of his own such as Fast Track to Brutetown and Rhapsody of Fire. He has also contributed to the Tachyon series in the past. He likes 24ths. Arvin's charts in this pack are a good mixture of footspeed and stamina.

### Graphics Credits:

Both the fallback banner and background use an image from the comic strip *Calvin and Hobbes* by Bill Waterson, recolored by @@ to fit the pack better. This image was inspired by the fallback graphics to Arvin's Fast Track to Brutetown. The fonts used in the fallbacks are Batman Forever and Impacted 2.0 by Foxy Fonts. Arvin's CD Title uses the Alghorie Syawal font by Manifestoyz and some image of a guy wearing a turban @@ can no longer find on the internet.

## DARK XUXA

Songs Stepped	0	Charts Stepped	1
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Dark Xuxa is a super old-school beast ITG player. He doesn't really step, but he managed to create a file so famous that it's in this pack four years after the release of Causality Violation. Really, Miasma is only here due to a techincality from Archi including the older charts to his chart to the same song, but that's ok. We appreciate all Dark Xuxa's file has done for Parrax.

### Graphics Credits:

There are no graphics, fallbacks, CD Titles, or anything else to attribute since Dark Xuxa didn't really have much of a role in this pack.

## FRAXTIL

Songs Stepped	4	Charts Stepped	13
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Fraxtil is relatively new to the scene, but he has rose to prominence quickly with his well-rounded assortment of packs. Stepping packs themed around FA, easy stamina, harder stamina, and even dabbling into some footspeed, it is hard to find a type of chart he hasn't stepped. For this pack, he focused more on footspeed.

### Graphics Credits:

There are no graphics credits in particular, but it is noteworthy to say Fraxtil made his fallback and CD Title graphics himself. Nice job Fraxtil! The font used in his CD Title is Museo Light by Jos Buivenga. The font used in the fallback graphics is Big Noodle Titling by Sentinel Type. Fraxtil is pretty good at making graphics. I like his minimalist style that he chose for this pack.

## JANUS5K

Songs Stepped	4	Charts Stepped	7
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Janus5k is one of the most underappreciated steppartists. Metal just isn't as popular in the community as it should be. He has released a ton of packs including most recently East Coast Violation. Like his previous stuff, he stepped metal for The Apocalypse Sampler, most of it being really hard. I'm glad he gifted us more upper-tier stamina.

### Graphics Credits:

His fallback graphics use Dark Dragon Lord by VampirePrincess007 as the background, with Seven Swordsmen BB by Blambot as the font. His CD Title uses the font Metal Lord by Typodermic Fonts. The red line was added in later, as well as the drop shadow.

## LOLIPO

Songs Stepped	1	Charts Stepped	1
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Christal has been stepping for a while but mainly steps for collaborations. Previous work of her's has been included in the Speedcore series and most recently the Helblinde pack by Zaia. She likes stepping songs that are good musically, which she did for this pack as well.

### Graphics Credits:

Christal's CD Title was made by Zaia and it uses a font by some asian guy, the same guy who made the song Tougen in Tachyon Gamma. Christal's fallback graphics feature some anime with pink around it. Unfortunately, Zaia does not have the source for the graphics nor does he have the source of the font.

## PARRAX

Songs Stepped	4	Charts Stepped	5
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Parrax has been playing ITG for a few years now, but he is very new to the stepping scene. This will be his first contribution to a major release. Parrax also really likes the musical artist AleX Tune apparently, since that is literally all he stepped for this pack. Despite Parrax playing mostly footspeed nowadays, his contributions to this pack are for the most part harder stamina charts (and one footspeed chart).

### Graphics Credits:

Parrax's CD Title uses graphics from the show Invader Zim by Jhonen Vasquez and uses Counter-Strike by SoJa as its font. Parrax was clever and used the likeness of the character Apocalypse from the X-Men universe in his fallback graphics. The font used on the fallbacks is Defused by Vinz.

This may be among his first few charts to be released, but it's good stuff.

## TYLR

Songs Stepped	1	Charts Stepped	1
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TYLR is a pretty long time veteran in the stepping scene. His work on Sharpnelstreamz has greatly changed the landscape of stamina as a play style, allowing for new upper-tiers unthought of at the time to be created. Outside of that, he has spearheaded the Speedcore series. Wow, TYLR has done a lot. This time around, TYLR stepped some Hi-Tech. His file manages to keep up with the standard set by Cranked Pastry, so that is fortunate. :)

### Graphics Credits:

TYLR's CD Title features his face. What a glorious face. His fallbacks don't have a credit, but they are easy to find on google if you search "trippy background". It's just that the image gives no source. TYLR also made the pack's banner and background. Those use content from The Day after Tomorrow by Roland Emmerich and the font Revolution II by Saji Johnny Kundukulam.

## ZAIA

Songs Stepped	3	Charts Stepped	3
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Zaia is a beast of a steppartist. No other steppartist has the ability to churn out quality packs at the rate as this man. He is always working on a million projects that tend to change the face of stamina. Since he was so busy, he didn't contribute that much to this pack, but the charts he did add are quality, so that's ok. He mostly stepped stamina for this pack, which is what he is most known for. It would be criminal to discount his contributions in the realm of footspeed though, such as his involvement in the Tachyon and Speedcore series.

### Graphics Credits:

His CD Title uses the font and graphics from Cirque Do Soleil Zaia. The fallbacks made by Zaia take graphics from 2001: A Space Odyssey by Stanley Kubrick and use Futura PT by ParaType for the font.

He, like Fraxtil, went for a minimal style in his graphics and I like it.

## ZETORUX

Songs Stepped	0	Charts Stepped	0
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Zetorux doesn't have any charts in this pack, but he helped out a lot with the overall meta of the pack. For example many of the errors in this readme were caught by Zetorux. Most importantly, every rating in this pack went through him. If there is something you don't think is rated correctly, blame Zetorux or @@. Zetorux is still very salty about Scarlet Tempest being a 19 instead of an 18+. He also doesn't think The Power SH should be a 22 (he thinks 21+). He will just have to live with that decision and be mature about it like the grown up fox he is. Regardless, he was by and large a huge help in allowing @@ to finish this pack as quickly as possible given his knowledge on ratings.

### Graphics Credits:

Since he doesn't have anything actually in the pack, there are no graphics that he needs to give credit for.

**THANK YOU FOR READING  
THANK YOU TO EVERYONE INVOLVED  
AND MOST IMPORTANTLY  
THANK YOU FOR PLAYING**

**ALL SONGS ARE OWNED BY THEIR RESPECTIVE ARTISTS**

**THANK YOU**