

Ultimate Greninja Resource Document

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Foreword: Hello, everybody! Thank you for checking out my Greninja resource document! I've been working on constantly keeping this updated and am always continually adding new things. If you ever find anything of interest that could fit in here, feel free to message me and let me know! Greninja has a large amount of depth and interesting attributes, and I want to be able to help every Greninja player and make him accessible to everyone. For everyone that is trying

to study VODs of the character, I would highly recommend checking out the Smash Ultimate Greninja Offline Singles Playlist and Smash Ultimate Greninja Online Singles Playlist, which features the best notable Greninja players like Lea, Stroder, JW, Akashic, iStudying. I hope that this document can be of use to you and happy grinding. Cheers!

Greninja Specific:

General Greninja Resources:

- **Greninja Discord Invite Link:**
  - https://discordapp.com/invite/vCF6Zp5
- **Button Smash Bros Document:**
  - https://docs.google.com/document/d/1ulp75hnrXwjsGgeYwx3WUbuMLoHSfjbTiNzqUEGNNgE
- **Greninja's Changelog Sm4sh -> Ultimate:**
  - https://docs.google.com/document/d/1KVAjrQKJtmLvNLdu27-u-TU0dL2ru_Xaq-6ExSxmLD8/edit
- **Greninja's Frame Data:**
  - http://kuroganehammer.com/Ultimate/Greninja or
  - https://ultimateframedata.com/greninja.php
- **Greninja's Frame Advantage:**
  - Once again: https://ultimateframedata.com/greninja.php
- **Greninja Tweet Compilation:**
  - https://twitter.com/i/moments/1072046231659134976
  - Various tweets and tech videos featuring Greninja from 2018-2020
- **Notable Greninja Player List:**
  - https://www.ssbwiki.com/Greninja_(SSBU)#Notable_players
  - Not a comprehensive list, but a good start.

Greninja Guides and Tutorials

- **Tadpole to Toad - An Ultimate Greninja Guide by Apolotion**
  - **Highly recommend viewing this if you're interested in picking up Greninja**
  - Part 1 - Overview & Neutral: https://www.youtube.com/watch?v=PWwJI_LGMsE

    - Part 2 - Advantage: https://youtu.be/Ui57LIDVKCQ
    - Part 3 - Jab Locks & Footstools: https://www.youtube.com/watch?v=pTEth94O2-o
    - Part 4 - Movement: https://www.youtube.com/watch?v=DyTSyYRJkck
        - 4.5 - Hydro Pump Cancels https://www.youtube.com/watch?v=DJimxZwcTyk
    - Part 5 - Substitute: https://youtu.be/2DOO_93WIMU (Counter)
    - Combo Showcase by Apolotion: https://www.youtube.com/watch?v=mAiMk4Zfi6o
- **Why You Should Main Greninja - Greninja Intro + Guide by JoeK:**
    - https://www.youtube.com/watch?v=xualih_0HRg
- **How To Greninja by JoeK:**
    - https://www.youtube.com/watch?v=y8O_VZktUjg
- **Smashboard Guide to Greninja by Ludicolo:**
    - https://smashboards.com/guides/greninjuts-two.1202/
- **Greninja's True Combos and Strings:**
    - https://smashboards.com/threads/greninja-true-combos-and-strings.464947/
- **Low to High % Combo Showcases:**
    - Part 1: https://twitter.com/NyaswitchNya/status/1074772225138388992
    - Part 2: https://twitter.com/NyaswitchNya/status/1091217318107959296
- **Lea's Combos Guides:**
    - Part 1: https://www.youtube.com/watch?v=nV6mmlsDSMU
    - Part 2: https://youtu.be/X9TDN5bBbH4
- **PHaZeX3R0 Greninja Combos n Kill Confirms:**
    - Part 1: https://youtu.be/nKBS_VsU1XU
    - Part 2: https://youtu.be/-GI3lWfyprU
- **FrenzyLight's Greninja BnB Combos (In 1 Minute):**
    - https://www.youtube.com/watch?v=Myl0mqw7skQ
- **【Everything to know about Greninja】- A SSBU Character Guide by Frenzy Light:**
    - https://www.youtube.com/watch?v=5_LBZRP0XUY&feature=youtu.be
- **Basic Dtilt Follow Up Guide by Elu:**
    - http://twitter.com/EluTranscendent/status/1083542734810550272
    - Drill and showcase of Dtilt follow ups: https://twitter.com/EluTranscendent/status/1084534278413864960

- **How to time Greninja's SHFF Fair by Elu:**
    - https://www.youtube.com/watch?v=caqMQ3hpsNs
- **Fair to Dash Attack Combo Timing Showcase by Learn to Love:**
    - https://twitter.com/learnfightlove/status/1121398290338050049
- **Pokedude's Training Drills :**
    - https://drive.google.com/file/d/1XrM7oe7oN30iZx0yiMq2oWU4KP9yeWLp/
- **Venia's Stream Notes - Very Large Resource**
    - Stream 1: Turn Skipping & Pressure, MU Spread and Optimization, Telegraphed Approaches, Pichu, Snake, Mega Man MUs, and Moveset Optimization https://pastebin.com/d4wWuTrc
    - Stream 2: Palu, ZSS, Yoshi, Wolf MUs https://pastebin.com/ynJ0HVRQ
    - Stream 3: ROB MU, VS Shield Camping, Parrying, Knowledge and Fundamentals - https://pastebin.com/UF9Urer3
- **Greninja Grounded Moves That Hit Ledge Hang**
    - https://docs.google.com/spreadsheets/d/1ZGXKdnc7xmxYTomqJmq5TMfLL6YjaTVBiYwinH3cP38/
- **Greninja OOS Punishes against all Smash Attacks in the game**
    - https://drive.google.com/file/d/1vjr9LfnrqIjjQiy2_m9r68xpHHqlHsz7/view

Greninja Hitbox Visualizations

- **NinjaLink**: https://www.youtube.com/watch?v=2aVnlEyN_7U
    - Has substitute hitboxes
- **Code [REDACTED]**: https://youtu.be/wn110jP5d0Y
    - Has no visual effects covering hitboxes
- **EyeDonutz**: https://drive.google.com/open?id=1dm3UE-MSv9ZH8c0AJfIqKFjw1xdSwpnv
    - .Gif versions of individual moves, does not have all of them
- **UltimateFrameData Website:**
    - https://ultimateframedata.com/greninja.php (Also has a mobile app!)

Greninja Video Resources

- **High Level Greninja Singles Playlist**:

    - Highly recommend viewing
    - Updated playlist of singles games of Greninja in Smash Ultimate. Featuring notables like: Venia, Lea, Stroder, JW, Akashic, iStudying, and more.
    - Offline: https://www.youtube.com/playlist?list=PLhhW4650189Io2YwrxquWoCsiEMQhxThr&
    - Online: https://www.youtube.com/playlist?list=PLhhW4650189Ijsif9yDeTH8GogIiTjUT1
- **Greninja's MU Video Document:**
    - Has videos of every single MU with high level Greninja players. Very useful for studying.
    - https://docs.google.com/spreadsheets/d/1bz8YdbIKz0m1AMjEXd_CBORNP3SfyhRBQMGJo_om6Rs/edit?usp=sharing
        - Insanely awesome work by Apolotion!

Greninja Move-Specific Showcases

- **Downtilt > Upsmash Chart**
    - Kill %'s for the Dtilt Upsmash confirm, tested on FD, 0% rage, unstale DI out
    - Image: https://cdn.discordapp.com/attachments/519061197249708042/753366715290878002/unknown.png
- **The General What-I-Did-Wrong-For Dtilt/DA > Upsmash Chart**
    - Chart by Van on improving Dtilt/DA > Upsmash
    - https://cdn.discordapp.com/attachments/492894162560090113/675214703315779594/993c22b69f.png
- **Drag Down Up Air (DD Up Air)**
    - A very versatile technique with multiple setups that can lead to large follow ups and kill confirms.
    - **How to Drag Down Up Air**
        - https://twitter.com/EluTranscendent/status/1224758299591168002
    - **Techchase Frame Trapping with Drag Down Uair:**
        - https://twitter.com/somesh125/status/1075784502021042177?s=19
    - **DD Up Air at Ledge Combo Extension**

        - https://twitter.com/somesh125/status/1181573965321363456
- **Nair Safety On Shield, Tweet Thread:**
    - List of options each character has when Greninja nairs on their shield, lacks the DLC characters.
    - https://twitter.com/KP_KERO/status/1075272944786530304
- **Greninja Weak Nair -> Fsmash Percent Window (No DI)**
    - Percent windows for the weak nair -> fsmash combo.
    - Chart: https://cdn.discordapp.com/attachments/519061197249708042/793645540339351612/my-image.png (Lacks DLC Characters)
    - https://twitter.com/Strodead/status/1085716856562900993 (Example Showcase)
- **Grounded Dair Spike Threshold Document:**
    - Percents at which each character in the game is spiked by Dair while on the ground. Has columns for both with and without the short hop modifier.
    - https://docs.google.com/spreadsheets/d/1-YBeOYRk_1AW6QDK0m706cjyYvNp1MbNo3l8XIhd4Y8/edit?usp=sharing
- **Understanding Greninja's Dash Attack Crossup:**
    - Video Explanation by MGW on when Dash Attack will cross up on shield or not: https://twitter.com/professor_mgw/status/1112516412524904448
    - Chart: https://twitter.com/professor_mgw/status/1112851792143044614
- **How to Use Greninja's Water Shuriken**
    - Good introductory video which explains Greninja's Water Shuriken's properties as well as its uses.
    - https://www.youtube.com/watch?v=QfGgq-vs6vI
    - Fully Charged Shuriken on Ledge: https://twitter.com/riina_ssbu/status/1285096263499710465
- **Buffered Turnaround Bair, How to + Applications :**
    - Buffered RAR Bair follow ups.
    - https://www.youtube.com/watch?v=NU1WZmkY0IQ
- **Downtilt -> Attack Cancel Bair Input + Application:**
    - Utilization of attack cancels to get easy RARs out of Dtilt from approximately 40-125%, depending on DI.
        - Also possible to just use normal RAR or iRAR. Video just shows AC.

    - https://www.youtube.com/watch?v=uu4Gydk9O7A
- **Landing Back Air Hitstun Frame Advantage**
    - Landing Bair Frame Advantage allows for a variety of follow ups, depending on percent.
    - https://docs.google.com/spreadsheets/d/1z6sCNRDMiV8PodNKtTmI0zF2SDNkx2jvwsX8eFO0zoU/edit#gid=205222185
- **Thigh Bair Hitbox Confirm Applications**
    - The inner part of back air has an interesting hitbox with high base kb, known as the thigh hitbox that allows for unique follow ups.
    - https://twitter.com/van_ps/status/1115294448827678720
- **Semi-Spiking with Back Air**
    - Less common than up air drag downs, the first two hits of bair can also be used similarly to semi-spike.
    - https://www.youtube.com/watch?v=1ba2R4Es7MM
- **Upwards Substitute (Counter) Kill Percents**
    - Though less potent than Smash 4, upwards substitute can still be used to kill characters at reasonable percentages. (Generally 100-120% without rage, barring super heavies.)
    - https://docs.google.com/spreadsheets/d/1V_UFkDptPAEGRgMV-1nGSk7Qv5joEWgu8F4cV8suAFQ/
- **Counter OOS Against Long-Lasting Hitboxes**
    - Countering out of shield can still be activated when dealing with long-lasting hitboxes.
    - https://twitter.com/BennySmash/status/1224512921784418305
- **Shadow Sneak Untechable %'s**
    - Can be used for stage spiking characters to guarantee stocks.
    - https://docs.google.com/spreadsheets/d/1PskxOY-ViceYWAXdJICjEUnf1wfJnGwRTnadpHk0478/edit#gid=0
- **Up Throw Kill Percents:**
    - Kill %s for every character in the game when up thrown by Greninja.
    - https://docs.google.com/spreadsheets/d/1Br85luna2GMkv4oQKrK8v3FMuXTiPYH9x9mmohPe4k8/edit#gid=0
- **Forward Throw Kill Percents**

    - Kill %s for every character in the game when forward thrown by Greninja.
    - https://docs.google.com/spreadsheets/d/1QmkWnN4b2yQoCmcYX6HvPQDeF7Fawq4-olUtTWOy0RU/edit
    - Noted Important application for the Dthrow-Fthrow 50/50 DI Mixup at ledge.
        - Example: https://twitter.com/EluTranscendent/status/1189391633189625857
- **Down Throw -> Dash Attack Combo Chart**
    - Chart of when downthrow -> dash attack starts and stops working on every character.
    - https://docs.google.com/spreadsheets/d/1vu1h57btvwW4g0m5lXobdae11YjJZ6djWCZ3ESOjs0U/edit#gid=0
- **Down Throw Frame Advantage Punishes Vs Fast Fallers/Heavies**
    - Utilizing Down Throw's lack of tumble during low percent to gain true follow ups.
    - https://twitter.com/apolotion/status/1221607422374137856?s=21

Greninja Specific Tech (Or Tech Otherwise Potentially Relevant)

- **Shadow Parrying**
    - Frame 1 Parry tech specific to Greninja utilizing Shadow Sneak's special properties
    - https://twitter.com/FeidaMack/status/1074001370330611712
    - https://twitter.com/DuckySSB/status/1106170169615925248
    - https://twitter.com/PHaZeX3R0/status/1074143220408508417
    - https://twitter.com/2Vgotnabbed/status/1108076776218152968
    - https://twitter.com/PHaZeX3R0/status/1105303561859158016
        - "Against multihits w/ little gaps between hits you just parry the first hit then literally just mash side b"
    - https://twitter.com/AMMatarius/status/1107367268697157637
- **Hydro Pump Edge Cancels:**
    - The ability to cancel ending lag of Hydro Pump via using the edges of platforms or the stage.

    - Hydro Pump Edge Cancels made reasonable: https://twitter.com/generallandmine/status/1082390324511686661
    - Battlefield Edge Cancels: https://twitter.com/IV31_/status/1082318838698524672
    - PHaZe BF Edge Cancel showcase: https://twitter.com/PHaZeX3R0/status/1073806037533249536
        - Phaze is wild watch this one lol
    - Diagonal edge cancel showcase: https://twitter.com/somesh125/status/1076850165405777920
        - Potential use in edge guarding?
- **Greninja's Footstool Out Of Shield**
    - Presents another kind of OOS option to help supplement Greninja's OOS game and also gain new punishes.
    - https://youtu.be/y8zkAUD6KWk
- **In-Depth Look at Greninja's Dash Lock:** https://youtu.be/RImi2aAeM44
    - Dash Lock = Jab Lock + Dash forward + Jab Lock, allows for potentially better kill setups off of a jab lock.
    - Dash Lack Spreadsheet: https://docs.google.com/spreadsheets/d/1khxcU-WbqwqW1Ir6NIk9IvoizC150R4JKFnWdakQ5F8/edit#gid=0
- **C-Stick Macro Specials:**
    - Allows for more easily applicable wave bounces.
    - How to do it: https://www.youtube.com/watch?v=3gbZJn8CHMk
    - Greninja Practical Application Showcase: https://twitter.com/xsonicx2/status/1096527952689410049
- **Consistent ledge grab setup on Greninja**
    - Could be particularly useful if you want to make sure you don't mess up your ledge trump
    - https://twitter.com/Crest72348311/status/1250164523480363010
- **Greninja Hurtbox Shifting**
    - After a well spaced fair, you can bait your opponent to perform an oos option and shift back Greninja's hurtbox with fsmash, ftilt or dtilt to punish their whiff.
    - https://twitter.com/apolotion/status/1241431464849412098?s=21
- **Dashing Pivot Grab**

    - Allows Greninja to approach forward with its insane pivot grab range. Has very good application vs the standard dash grab.
    - https://twitter.com/hulbert1/status/1253847729933103105?s=21
- **Greninja Spaced Ftilt Safety on Shield**
    - https://docs.google.com/spreadsheets/d/1XqnNSyBv5sBnTg9GH32cQml4oPyR0NTuk0hwTt20YOQ/edit#gid=0

General Player Resources

General

- **The Art of Smash Ultimate: Full Playlist**
    - https://www.youtube.com/playlist?list=PL4SzCzeORbSRRI72fLpdCCDI-SZIwqFyJ
- **How to Fight Every Character:** https://www.youtube.com/watch?v=Bxk04tGg2q0
- **Analysis: Input Lag, Reaction Time, and Hit Confirming:** https://www.youtube.com/watch?v=hCUKuY5S9uo
- **Character Frame Data:** https://ultimateframedata.com/
    - The Basics of Frame Data: https://www.youtube.com/watch?v=ht3bZcLxBIQ
    - Understanding Shield Safety: https://www.youtube.com/watch?v=yoru1XJrsRg
    - Every Character's OOS: https://docs.google.com/spreadsheets/d/1wohzlhHm6bHbzl9bNBHiIQhjwzp9ZgoeTEostOMd3G0/edit#gid=0
    - Smash Calculator: https://rubendal.github.io/SSBU-Calculator/
- **Ultimate Character Attributes**: http://kuroganehammer.com/Ultimate/Attributes
    - Smash Multipliers: https://www.youtube.com/watch?v=ci6Zaxdogl4&
- **The Universal Tech List**: https://www.reddit.com/r/smashbros/comments/bqyry0/universal_tech_list_is_everything_here/
- **Stage Blastzone comparison tool:** http://tournameta.com/stage-comparison/
    - Small Battlefield: https://www.youtube.com/watch?v=V2xCPQRe4R0

- **Posting Ultimate Replay Videos Directly To Youtube:** https://gaming.stackexchange.com/questions/353419/posting-smash-ultimate-replay-videos-directly-to-youtube
- **Control Schemes:**
    - Competitive GCC Analysis: https://www.youtube.com/watch?v=YqlsN_wy6no
    - Optimal GCC/Pro Setup: https://www.youtube.com/watch?v=TFIYohiLV6Q
    - Pro Controller Remapping: https://www.youtube.com/watch?v=H24jVx3BRGc&
- **Picking A Main:**
    - Why You Need A Main: https://www.youtube.com/watch?v=tA8-f2neHPY&
    - Armada Solo vs Dual Main: https://www.youtube.com/watch?v=uPmG0IK8tH4&t=
    - Core-A Picking A Character: https://www.youtube.com/watch?v=AGHGEttNjyo&
    - 3 Types of FG Players: https://www.youtube.com/watch?v=Qn6FHt2RCV0&

- **Netcode:**
    - Smash Online: https://twitter.com/NerfHerder08/status/1291092316573380608 and https://nerf0.com/smash-online/

Neutral:

- **How to Neutral:** https://www.youtube.com/watch?v=cKGVBC5JBA4&t=0s
- **Understanding Neutral:** https://youtu.be/A8EIRu-Vwak
- **Deku Tree's take on neutral:** https://youtu.be/_QQUi67MLE8
- **Llod's Guide to Improvement**: https://www.youtube.com/watch?v=U3rJQkgPMsg
    - Document in relation to video above: https://docs.google.com/document/d/1xwPP5AgM_qw6AIwGnP2t7n2hlyb3j2K--JDMIOPx_bA/edit
- **Conditioning:** https://www.youtube.com/watch?v=Ji6ACYX7IvM
- **Projectiles:** https://www.youtube.com/watch?v=ndDBLZVwuk4 (Deku Tree S4)
    - Countering Zoning: https://youtu.be/SvCwE1whDao
- **How to Deal with Safe Moves:** https://www.youtube.com/watch?v=vnV10WuhDjA
- **Pace Control:** https://www.youtube.com/watch?v=g4-EyNJhcQ8&
- **Mindgames:**
    - MSC Analysis on Mindgames: https://www.youtube.com/watch?v=G6YTQt4n6Ro
    - Core-A Taunting: https://www.youtube.com/watch?v=PElmAFZFoqQ&

Movement:

- **Platform Movement:** https://www.youtube.com/watch?v=iX49EjntAbE
    - Further Platform Movement Showcase with VoiD: https://twitter.com/RichardIcecube/status/1189006082515066880
    - Dealing With Platforms: https://www.youtube.com/watch?v=scaEaD3sCoo
    - Instant Edge Drop Aerial: https://twitter.com/Tilted_as_fuck/status/1143559048597577730
    - Circle Drop: https://www.youtube.com/watch?v=hcxQZC-yFnA
    - Jumpsquat Edge Cancel: https://www.youtube.com/watch?v=-GOKXFf1Nlo
    - Drop Jumping: https://www.youtube.com/watch?v=UnNBZsRPX6U
    - Instant Double Jump: https://www.youtube.com/watch?v=GSsz7CJd7Uo&
    - Akuma Jump: https://www.youtube.com/watch?v=4rej4MjmxFA
- **Zero's Movement Guide** https://www.youtube.com/watch?v=gArzRZy7UTs
    - (0:25 Short Hop | 2:30 Fast Fall | 4:09 RAR (Reverse Aerial Rush) | 5:07 Walk vs Dash | 7:17 Dash Grabs and Skid Standing Grabs | 8:20 Pivot Grabs | 8:50 Short Hop Shortcut | 11:16 Dash Dancing and Foxtrots | 15:00 Washdashing and Wavelanding | 18:34 Teching | 21:00 B-reverse) :
- **Jtails' Movement Guide:** https://www.youtube.com/watch?v=L30sLmV3Dps&
- **Jtails's Recovery Guide:** https://www.youtube.com/watch?v=IdNoSa63NjI
- **Run Cancel Dash Dancing:** https://www.youtube.com/watch?v=BUHXfXqitGo&
- **Advanced Movement and Your Character:** https://www.youtube.com/watch?v=BS6MUe9uoas
- **Quick Guide to Dashing:** https://www.youtube.com/watch?v=dE76ge53zcs&
- **Dash Dancing Explained:** https://www.youtube.com/watch?v=mmwfe6gOTUA
- **Dash Walking:**
    - https://twitter.com/TheSutho/status/1073539780036550657
    - https://twitter.com/TheSutho/status/1073582076530552833
- **Wavedashing:** https://www.youtube.com/watch?v=1tOuq-dO85I
    - Waveland: https://www.youtube.com/watch?v=GJWiLG2whjQ
- **Turning in Ultimate:** https://www.youtube.com/watch?v=QbOvu3eE6rc
- **Sticky Ledge Run:** https://www.youtube.com/watch?v=jWB_x2x1d2A

- **Tilt Stick Lockout:** https://www.youtube.com/watch?v=XzMSHDlDUfc
    - C-Stick Reset Flick: https://www.youtube.com/watch?v=a2DUolwjXbY
- **Buffering System:**
    - Hold Buffering in 3 Minutes: https://www.youtube.com/watch?v=B-7mABRNbRg
    - Hold Buffering Uses: https://www.youtube.com/watch?v=_0MmhMIefqA
    - Buffering Issues 1: https://www.youtube.com/watch?v=iEU2qg8LqhI
    - Buffering Issues 2: https://www.youtube.com/watch?v=WTme1Ws6NkQ
    - Roll Buffering: https://www.youtube.com/watch?v=rlum2WEFRbQ
    - Overcoming The Buffer: https://www.youtube.com/watch?v=inGqC1OOG0c
    - Advanced Buffer Tutorial: https://www.youtube.com/watch?v=qUNC-osWxhM

Offensive Movement Options and Techniques:

- **Instant Dash Attack:**
    - https://www.youtube.com/watch?v=5IBz3wmgDJg
- **Pivot Boost:**
    - https://www.youtube.com/watch?v=VCNqH7a3hfQ
    - https://www.youtube.com/watch?v=DA_ZDJ_RiXY
- **Pivot Cancelled Tilts + Applications:**
    - https://www.youtube.com/watch?v=xXzLwvMlPmU&
- **Instant Turnaround Tilts:**
    - https://www.youtube.com/watch?v=xfpcGBeZFoQ
- **Reverse Usmash:**
    - https://www.youtube.com/watch?v=eKGDRHqy0kw
    - No Charge SA: https://twitter.com/PlasticpriestSB/status/1166447185099202561
- **Extended Dash Cancel:** https://youtu.be/gpQ_VL3CTsU
- **Full Momentum Nair:** https://www.youtube.com/watch?v=uLTx1MJ9bBk
    - C-Stick Flick: https://www.youtube.com/watch?v=ay0PV9J3hgc
- **Frame Perfect FF Aerials:** https://www.youtube.com/watch?v=3aCtOA6j6ZE
    - C-Stick Fast Fall: https://www.youtube.com/watch?v=mbMWSUONhVE
    - C-Stick Fast Fall 2: https://www.youtube.com/watch?v=2jKpjVMBIZA
    - Aerial Fast Fall Cancel: https://www.youtube.com/watch?v=eBVAghLhK9Y
- **Classic Rar:** https://www.youtube.com/watch?v=WomJdf346po

- **Early/Instant Rar:**
    - https://twitter.com/SkarfeltSSB/status/1071026087738662912?s=09
    - https://www.youtube.com/watch?v=_2F_d5V3y3U&
    - https://www.youtube.com/watch?v=Pxxx4WHrTT8&
- **Consistent Rar:** https://www.youtube.com/watch?v=gC6GD48ygII
- **Attack Cancel:** https://youtu.be/v1kjQtMaPkE
    - https://www.youtube.com/watch?v=woK5FEeFbnc
    - https://www.youtube.com/watch?v=fQ9yvj2wPCg
- **Comparison (iRAR vs AC):**
    - https://www.youtube.com/watch?v=Am3_N6LFbqA
    - https://www.youtube.com/watch?v=8hcB0Qi9f1g
- **B-Reverse:** https://www.youtube.com/watch?v=GZfJqw2pmxk
    - https://www.youtube.com/watch?v=qDl2kQviJSo (S4)
- **C-Stick Macro Specials:**
    - How to do it: https://www.youtube.com/watch?v=3gbZJn8CHMk
    - C-Bounce: https://www.youtube.com/watch?v=8CySqqoRtcU
- **Charge Jump Cancel:**
    - https://www.youtube.com/watch?v=eW5zAPaHGJ8&
- **IZAC:** https://www.youtube.com/watch?v=hP1pl8iSeYI&
    - https://www.youtube.com/watch?v=N5U9ow0oBaQ
    - ZZ Combos: https://www.youtube.com/watch?v=C45D7_1Duec

Grabs:

- **Character Grab Box Ranking:**
    - https://twitter.com/jiwas64/status/1232420064739176458?s=21
    - https://twitter.com/Zeckemyro/status/1286109395613622274 (July 2020 Update)
    - NOTE: This is the size of the grab hitbox, not the RANGE of the grab. Two different things
    - For example: little mac may have a smaller grab than cloud, but his grab box reaches farther out than clouds does (Z value), which is why you could argue mac's grab is better than clouds.

- **Every Character's Grab Startup:** https://twitter.com/t_noa168/status/1111207268542877696?s=21
- **Every Character's Grab FAF:**
- https://twitter.com/t_noa168/status/1111147099326808069
- **Reverse Shield Grab:** http://twitter.com/DaYhumus/status/1076058284900208641
- **Skid Grabbing:**
    - https://twitter.com/NocturnalFudj/status/1074840674720247808
    - https://twitter.com/ShikiGekkouga/status/1072554076838211585
- **Boost Grab:** https://www.youtube.com/watch?v=TgAtckcCJjk
    - Roll Cancel Boost Grab: https://www.youtube.com/watch?v=y1If8eSLKwI
- **Dashing Pivot Grab:**
    - https://www.youtube.com/watch?v=WVQ66fQnoaQ
    - https://twitter.com/Landslide___/status/1253847729933103105
- **Shield Reverse Grab:** https://twitter.com/DaYhumus/status/1076058284900208641
- **The Ume Grab (Dash Step Standing Pivot Grab):** https://twitter.com/0neSmash/status/1080849110612217857
- **Instant/Standing Pivot Grab:**
    - https://twitter.com/rattsu_dq/status/1108262054509449216
    - Input Method: Pressing Back -> C-Stick Forward+Shield/Grab
- **Dash Walk -> Instant Pivot Grab Visual:**
    - https://clips.twitch.tv/RenownedDependableHippoTriHard
    - https://twitter.com/rattsu_dq/status/1108961478751604741
    - Input:
        - "It seems you dash forward, do a dash turnaround (think Smash 4 dashdance-in-place timing), and then on the *next frame* you press c-stick towards + grab.
        - It can be done without c-stick, but otherwise it's a frame perfect input to get the slide."
        - https://twitter.com/CougyCougs/status/1108998959832420352
        - (1-4frames) forward
        - (1frame) back
        - (next frame) c-stick forward + grab
- **Pummels:**

- https://www.youtube.com/watch?v=B6P2uANvWIc

Defensive Options and Surviving Longer:

- **DI & LSI:** https://www.youtube.com/watch?v=SS6JJZA6VpM -
- **In Shield SDI:** https://twitter.com/FoxIsOD/status/1083303184234307584
- **Shield Tilting and In-Shield SDI:** https://www.youtube.com/watch?v=HFYtrdcbDJI&
- **Teching : - Can We Tech Everything:** https://www.youtube.com/watch?v=Q-ge7VRRWUo
- **How to Tech:** https://www.youtube.com/watch?v=u8ltH1CwCcM
  - A-Landing: https://www.youtube.com/watch?v=VIWdUUD1i1Q
  - Landing Pivot: https://www.youtube.com/watch?v=oebaibvdiPw&
  - Ledge Slip Cancel: https://www.youtube.com/watch?v=YoXS8wgKzaU
- **Airdodge**
  - Everything about the New Airdodge : https://t.co/oYKndpnoBD -
  - Directional Airdodge to the Ledge : https://www.youtube.com/watch?v=e8FZ8ScFv8U
  - Full Momentum Neutral Airdodge: https://twitter.com/Ryelssb/status/1091199781865771008
- **Burying and How to Mash:** https://www.youtube.com/watch?v=fWsCApe4e94&
- **Fighting Invincibile Opponents:** https://www.youtube.com/watch?v=rDNW2ZE4Ap4&
- **Survival Ranking and Momentum Cancel:** https://smashboards.com/threads/smash-ultimate-character-survival-ranking-momentum-cancel.466227/
- **How to Avoid the 2 Frame Punish:** https://www.youtube.com/watch?v=-uQn19zvWpo
- **The Best Way to Escape Punishes (Footstool to Combo Escape):** https://www.youtube.com/watch?v=2_3Sv_Ip7Ws
- **Avoiding Win Conditions:** https://www.youtube.com/watch?v=dtBNN6_O0V8
  - Aka avoiding getting hit by the things that make you lose
- **Punishing Rapid Jabs On Shield:**
  - https://www.youtube.com/watch?v=oRxZs1bGIUE
  - https://twitter.com/nickriddlessbb/status/1164185841901744128?s=21
- **Run Up Shield:** https://www.youtube.com/watch?v=VfjQMkxVhWE

- Run Shield Flowchart: https://www.youtube.com/watch?v=fffwXih_gNQ
- Shield Dash (S4): https://www.youtube.com/watch?v=zxvobyZwj9M
- Spotdash: https://youtu.be/LIMjyCFSMoM?t=190
- Sliding Spotdodge: https://www.youtube.com/watch?v=ulT_wysCYn4&

Parrying:

- **How To Parry (Izaw)**: https://www.youtube.com/watch?v=8UVniPRRa98
- **Parry Practice Technique: ShadowMoses + Green Shell:** https://twitter.com/_zaku3/status/1071282465803653122
- https://www.youtube.com/watch?v=ouOTiCDuQEI
- **Parry Guide (DKWill):** https://www.youtube.com/watch?v=GPCpFHsj6-w
- **Parry Shifting:** https://www.youtube.com/watch?v=VVHgqcfT414
- **MultiHit Move Parrying:** https://docs.google.com/spreadsheets/d/10PU9eOqSBG20X08pLf1NpKleNF5S7EKvrkFjJ_TgJ_U/edit#gid=0
- **Special Out of Parry Option Select (SOPOS):**
  - https://www.youtube.com/watch?v=l4LGOXtO290
- Amount of extra shield hitlag frames from parrying depends on whether hitbox is "direct" or "indirect".
  - https://twitter.com/Meshima_/status/1198019906375020544
  - Parrying indirect non-projectile hitboxes gives +8 extra frames for attacker and -1 for defender, makes more adv for defender.

Ledge Options:

- **Ledge Option Analysis:** https://www.youtube.com/watch?v=-IawgO7GIq8
- **How to Get Off the Ledge:** https://www.youtube.com/watch?v=bBP3QlQhKs8
  - Ledge Recovery Mixups: https://www.youtube.com/watch?v=Z_kPSMhSNvA
  - Buffered Ledge Dash: https://www.youtube.com/watch?v=ScXHVfaEWj4
  - Instant Wall Jump: https://www.youtube.com/watch?v=_5lzBVBJ-Rc
- **Ledge Roll Distances Chart**: https://twitter.com/kyle_roath/status/1126700675100884992

- **Ledge Get Up Attack Ranges**: https://twitter.com/Tilted_as_fuck/status/1105178756237398017?s=19
- **Regrabbing Ledge and Its Consequences:** https://www.youtube.com/watch?v=IMBGkpaZqFA
    - Intangibility Deterioration: https://www.youtube.com/watch?v=svBnWqWy8ww
    - Regaining Invincibility: https://www.youtube.com/watch?v=U0vYx-DKU6Q&
- **Beginner Guide to the Ledge:** https://www.youtube.com/watch?v=Gjs94b_aTG0
- **Ledge Attack Disadvantage on Shield Release**
    - https://twitter.com/blubolouis/status/1117250662398595072?s=21
    - https://docs.google.com/spreadsheets/d/1zyst4oviF5nozy_1fkuEgbMzBeEuPMgY4i838c4lKjQ/edit#gid=0
- **Smash Ultimate Ledge Trapping Guide:**
    - https://youtu.be/58TmXhbfYso
    - https://www.youtube.com/watch?v=BymWsAbVCHM
    - https://twitter.com/Noctusion/status/1113439697118932992?s=20
- **Ledge Trump:** https://www.youtube.com/watch?v=mk2jds65BM4
    - GimR Ledge Trump Exploit: https://www.youtube.com/watch?v=aeOllleOc4c&
    - GimR Ledge Trump Solution: https://www.youtube.com/watch?v=gjGvGYlv8JY&
    - 2 Shield LT: https://twitter.com/MuffinzSSB/status/1198174953071370240
    - Beefy Up-B (S4): https://www.youtube.com/watch?v=AYNxxGjkVCs
- **2-Frames:** https://www.youtube.com/watch?v=w1vQXRaNhZI
    - Avoiding 2-Frames: https://www.youtube.com/watch?v=-uQn19zvWpo
    - Considering The Ledge (S4): https://www.youtube.com/watch?v=0iK7RaV0QOk

Training Related:

- **The Best Way to Practice by DkBill:**
    - https://www.youtube.com/watch?v=7eMhXw7rEPs (Part 1),
    - https://www.youtube.com/watch?v=lIlY-ZcJO6U (Part 2),
    - https://www.youtube.com/watch?v=lIlY-ZcJO6U (Part 3).
- **How to Use the Training Mode:** https://www.youtube.com/watch?v=sPyXfjpyjJk
- **The Phases and Structures of Good Practice**: https://www.youtube.com/watch?v=EX345KN4ooE

- **Ultimate Training Mode Enhanced:** https://www.youtube.com/watch?v=WAxMIODK5-s
- **Art of Smash Ultimate : Training**: https://www.youtube.com/watch?v=DrBWKkO9OeU
- **Tips to Improve:** https://www.youtube.com/watch?v=dMNgxqQCfGk
- **Dabuz Practicing Efficiently:** https://www.youtube.com/watch?v=glwzHKGz434
- **Modded Training:** https://twitter.com/jugeeya/status/1297232838140391424

Tech Chasing:

- **New Jablock Mechanics:** https://www.youtube.com/watch?v=vPKP2v9QtOo&
- **Tech Chase Trapping:** https://www.youtube.com/watch?v=MTUtF103Lz8

Option Select:

- **Parry OS:** https://www.youtube.com/watch?v=H2Jjws8TsuY
    - Parry OS Continued: https://www.youtube.com/watch?v=Bh7UtiX-xxY
- **SOSOS:** https://www.youtube.com/watch?v=rSl9GmPVqZ0
- **SOPOS:** https://www.youtube.com/watch?v=l4LGOXtO290
- **FS Special OOS:** https://www.youtube.com/watch?v=xsLBQ3ZIkhw
- **OS Parry/Nair OOS:** https://twitter.com/ShADoWxNoBODy/status/1073547276524507136?s=20
- **Parry Wavedash OS:** https://twitter.com/0neSmash/status/1108371967504203777?s=20
- **Dodge OS:** https://twitter.com/0neSmash/status/1108371049555681280
- **Anti-Tomahawk OS:** https://www.youtube.com/watch?v=0EsgKpaKrk8
- **Running Shield Grab OS:** https://twitter.com/Seven_in777/status/1125556182314131458
- **AB Smash Buffering:** https://www.youtube.com/watch?v=TZ3SjzVC2zY

Doubles:

- **2v2:** https://www.youtube.com/watch?v=WYTqaVokHAE
- **Abusing Throw Invincibility:** https://www.youtube.com/watch?v=Eul0-bgibbE&
- **Broken Double Tactics:** https://www.youtube.com/watch?v=eW5zAPaHGJ8

Improvement and Mindset:

- **How to become a better player:** https://www.youtube.com/watch?v=aU1FE9XB3nk&
- **Tips for Improving:** https://www.youtube.com/watch?v=FUMqEwkKv-8

- **Tips for becoming a top player:** https://www.youtube.com/watch?v=C5wsZVzRVsc&
- **Fighting Games Mentality:** https://docs.google.com/document/d/1Daa0kdFScYSsG3NyBXWSR7SWYXN25bRP6JAEN2_Z4F0/edit
- **Drastic Improvement:** https://smashboards.com/threads/drastic-improvement.311129
- **Llod's Guide to Improvement:** https://docs.google.com/document/d/1xwPP5AgM_qw6AIwGnP2t7n2hlyb3j2K--JDMlOPx_bA/edit
- **Evet's Mental Guide:** https://docs.google.com/document/d/1bBV0hCkq07lEv3oOkyA1DzhLTT0oEbubdJWKeZ-WPZA/edit
- **Stop Caring So Much:** https://www.youtube.com/watch?v=2kr_GmZ3jac
- **Mindset with a former Quake/CS:GO Player:** https://www.youtube.com/playlist?list=PLUa9vQ74vG6niw28cWeonsOS-AJg5mAVd
- **DKWill's playlist on mindset:** https://www.youtube.com/playlist?list=PLCGxMve95WT5XaXPaI7Io2NMtFuJQy0ba
- **Stopping your inner "Bruce", or how to stop losing by choice:** http://www.starcitygames.com/magic/misc/2005_Stuck_In_The_Middle_With_Bruce.html
- **Armada's Learning How to Learn:** https://www.youtube.com/watch?v=K6yiszJc6y8
- **Armada's Doing Everything To Improve:** https://www.youtube.com/watch?v=fMHtwEliAEk
- **Replay Analysis:** https://www.youtube.com/watch?v=RFKXvbOrvzo&
    - **Learning to Analyze:** https://www.youtube.com/watch?v=ZJJC3hKXNkQ

YouTube:

- GimR's Lab: https://www.youtube.com/channel/UCMo0JzwgHCZ435K9BAAi8Rg
- BeefySmashDoods: https://www.youtube.com/channel/UCeCEq4Sz1nNK4wn3Z4Ozk2w
- Izaw: https://www.youtube.com/user/Izaw91
- MySmashCorner: https://www.youtube.com/user/mysmashcorner
- Game5Smash: https://www.youtube.com/c/Game5Smash/featured
- BananaBoy: https://www.youtube.com/c/BananaBoySSB/featured
- PushBlockGaming: https://www.youtube.com/channel/UCqpiY2LrHB1L294wP9WSJHQ

- ADayInTheLab: https://www.youtube.com/c/ADayInTheLab/featured
- Vermanubis: https://www.youtube.com/user/Pseudopathaso
- DKbill: https://www.youtube.com/c/DKbill/featured
- Esam: https://www.youtube.com/user/imESAM
- Dabuz: https://www.youtube.com/user/dabuz18
- Marss: https://www.youtube.com/channel/UCRD2CerUvgKHQ-wXWXGPJ-w
- Larry Lurr: https://www.youtube.com/user/LarryLurr
- Fatality: https://www.youtube.com/channel/UC7mksrlMjfc2N7GUE_YK42g
- MKLeo: https://www.youtube.com/watch?v=NjIcg99Z4Ro
- Core-A Gaming: https://www.youtube.com/channel/UCT7njg__VOy3n-SvXemDHvg