Wireshark Cheat Sheet

Default columns in a packet capture output						
No. Frame number from the begining of the packet capture						
	ime Seconds from the fi					
		nmonly an IPv4, IPv6 or Ethernet address				
Destination (dst) Destination adress Protocol Protocol used in the Ethernet frame, IP packet, or TC segment						
Length Length of the frame in bytes						
Logical operators						
Operator	Discription	Example				
and or &&	Logical AND	All the conditions should match				
or or	Logical OR	Either all or one of the condtions should match				
xor or ^^	Logical XOR	Exclusive alterations - only one of the two conditions should match not both				
not ot!	Not (Negation)	Not equal to				
[n] []	Substring operator	Filter a specific word or text				
	Filtering packe	ts (Display Filters)				
Operator	Discription	Example				
eq or ==	Equal	ip.dest == 192.168.1.1				
ne or !=	Not equal	ip.dest != 192.168.1.1				
gt or >	Greater than	frame.len > 10				
it or <	less than	frame.len < 10				
ge or >=	Greater than or e	qual frame.len >= 10				
le or <=	Less than or equ	ual frame.len <= 10				
Filter types						
Capture	filter	Filter packets during capture				
Display	filter	Hide packets from a capture display				

			_		0		
Display filter				Hide packets from a capture display			
Wireshark Capturing Modes						Misce	llaneous
Promiscuous mode Monitor mode	Sets interface to capture all packets on a network segment to which it is associated to Setup the wirless interface to capture all traffic it can receive (Unix/ Linux only)				Members)perator hip Operato FRL+E	[] - Range of valu {} - In Start/Stop Capturi
	Capture Filter Syntax						
Syntax p Example	rotocol Direction hosts value Logical oper tcp src 192.168.1.1 80 and				rator		pressions 202.164.30.1
Display Filter Syntax							
Syntax	orotocol String	1 String 2 C	ompariSon Operator	Value	Logical Operato		Expressions
E	later dans	•		10216011			

Example	http	dest	ip	==	192.168.	1.1	and	tcp port	
Keyboard Shortcuts - main display window									
Accelerator	Description				Accelerator		Description		
Tab or Shift+Tab	Move between screen elements, e.g. from the toolbars to the packet list to the packet detail.			ars	Alt+ → or Optio →			the next packet election history.	
1	Move to t	he next pack	et or deta	il item.	→	In th	e packet detail, d	pens the selected tree item.	

Tab or Shift+Tab	elements, e.g. from the toolbars to the packet list to the packet detail.	or Optio →	Move to the next packet in the selection history.
	Move to the next packet or detail item.	→	In the packet detail, opens the selected tree item.
1	Move to the previous packet or detail item.	Shift+ 	In the packet detail, opens the selected tree items and all of its subtrees.
Ctrl+ or F8	Move to the next packet, even if the packet list isn't focused.	Ctrl+ →	In the packet detail, opens all tree items.
Ctrl+ Or F7	Move to the previous packet, even if the packet list isn't focused.	Ctrl+←	In the packet detail, closes all the tree
Ctrl+.	Move to the next packet of the conversation (TCP, UDP or IP).	Backspace	In the packet detail, jumps to the parent node.
Ctrl+,	Move to the previous packet of the conversation (TCP, UDP or IP).	Return or Enter	In the packet detail, toggles the selected tree item.

Protocols - Values

ether, fddi, ip, arp, rarp, decnet, lat, sca, moprc, mopdl, tcp and udp



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Common Filtering commands					
Usage	Filter syntax				
Wireshark Filter by IP	ip.add == 10.10.50.1				
Filter by Destination IP	ip.dest == 10.10.50.1				
Filter by Source IP	ip.src == 10.10.50.1				
Filter by IP range	ip.addr >= 10.10.50.1 and ip.addr <=10.10.50.100				
Filter by Multiple lps	ip.addr == 10.10.50.1 and ip.addr == 10.10.50.100				
Filter out IP adress	! (ip.addr == 10.10.50.1)				
Filter subnet	ip.addr == 10.10.50.1/24				
Filter by port	tcp.port == 25				
Filter by destination port	tcp.dstport == 23				
Filter by ip adress and port	ip.addr == 10.10.50.1 and Tcp.port == 25				
Filter by URL	http.host == "host name"				
Filter by time stamp	frame.time >= "June 02, 2019 18:04:00"				
Filter CVN flee	Tcp.flags.syn == 1				
Filter SYN flag	Tcp.flags.syn == 1 and tcp.flags.ack ==0				
Wireshark Beacon Filter	wlan.fc.type_subtype = 0x08				
Wireshark broadcast filter	eth.dst == ff:ff:ff:ff:ff				
Wireshark multicast filter	(eth.dst[0] & 1)				
Host name filter	ip.host = hostname				
MAC address filter	eth.addr == 00:70:f4:23:18:c4				
RST flag filter	tcp.flag.reset == 1				

Common Filtering commands							
Toolbar Icon	Toolbar Item	Menu Item	Description				
	Start	Capture → Start	Uses the same packet capturing options as the previous session,or uses defaults if no options were set				
	Stop	Capture → Stop	Stops currently active capture				
<u>a</u>	Restart	Capture → Restart	Restart active capture session				
•	Options	Capture → Optio	Opens "Capture Options" dialog box				
	Open	File → Open	Opens "File open" dialog box to load a capture for viewing				
	Save As	File → Save As	Save current capture file				
×	Close	File → Close	Close current capture file				
**	Reload	File → Reload	Reload current capture file				
9	Find Packet	Edit → Find Packet	Find packet based on different criteria				
(-	Go back	Go → Go back	Jump back in the packet history				
-	Go Forward	Go → Go Forward	Jump forward in the packet history				
	Go to Packet	Go → Go to Packet	Go to specific packet				
•	Go to First Packet	Go → Go to First Packe	Jump to first packet of the capture file				
<u>#</u>	Go to Last Packet	Go → Go to Last Packet					
	Auto Scroll in Live Capture	View—Auto Scrol in Live Capture	Auto scroll packet list during live capture				
	Colorize	View → Colorize	Colorize the packet list (or not)				
•	Zoom In	View → Zoom In	Zoom into the packet data (increase the font size)				
0	Zoom Out	View → Zoom Out	Zoom out of the packet data (decrease the font size)				
(=)	Normal Size	View → Normal Size	Set zoom level back to 100%				
1	Resize Columns	View → Resize Columns	Resize columns, so the content fits the width				

