"I Love it When a Plan Comes Together"











Mark "Zman" Zembruski

Who am I

- Mark Zembruski "Zman" on all Christmas Forums
 - My one claim to fame in our community that most do not know:
 - I originated the tag line. "I have the C.L.A.P., do you?"
 - Christmas Light Addition Problem
 - One of the central organizers of **C.L.A.P**. in the PacNW, regional decorating gathering
 - Christmas Light Addiction Program, for those with C.L.A.P.!
 - Christmas Expo Steering and Education committees
 - Yeah OK so what.....
 - Decorating since I was 20
 - Self admitted gadget geek, weekend warrior, learner of all trades, mastering NONE of them........
 - Decided to start growing Woodinville Wonderland in 2003
 - Approx 125,000 Lights (98% LED)
 - Approx 530+ channels of AC Light Animation
 - 9600 Channels of RGB Pixel Animation 47 E1.31 Universes
 - One traditional DMX Universe
 - Generally I do nothing "original" in my display, I enhance what I steal, er, borrow.....

7/21/2023

What's got to do with a Christmas Display?!

Hannibal reveled in success,.... and after all the mayhem turned out so well,.... Rejoiced! "I love it when a plan comes together!!.... However...



What's got to do with a Christmas Display?!

It was Mr. T that had a LOT to Say

"Everything started as a *Dream*. You gotta have Insight, know what you want. You gotta have a *Plan*. Like I tell everybody, if you fail to plan, you're planning to fail. I've been planning ever since I was a youngsta. You've gotta Start from Somewhere.....

Google it

I think we listen to Mr. T...

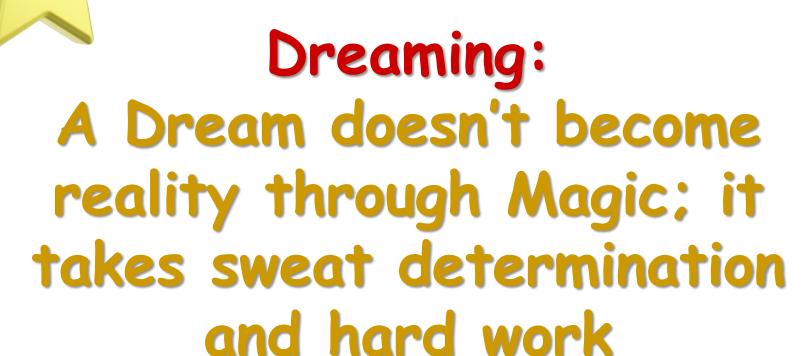


I pity the Foo'...! Who don't

Mr. T says.....

- Dreaming
- Insight
- Planning
- Getting started
- Cellar and the Attic...!?... What??

Mr. Talso wants you to pay attention to the Golden Nuggets of Knowledge



Colin Powell

Dreaming

- Doing a Display is a slippery slope, however, when you close your eyes, what does your minds eye see?
- Big/Small
 - Consequences to each
- Theme / Message / Color Scheme / Technology
 - What influences drive this?

Dreaming

- Why do you want to do it
 - What's your motivation
 - May play into how LONG you will do this
- Static or Animation!?
 - Static = Traditional starting point
 - · Props, LIGHTS! Gadgets and Gizmos
 - Animation = Dancing Lights!
 - · Show/Choregraphed Playbill....
 - What type of music?
- Incandescent, LED, RGB?
 - Do you understand the pros/cons?

7/21/2023

Dreaming



- What Display features do you see yourself using?
 - Do you know what's out there to use?
 - How are you going to acquire them?
 - How will you incorporate them?
- DIY or Off the Shelf? What's the difference?
- Artistic approach or MAJOR WOW!
 - Amalgamate vignettes (Traditional)
 - Techno, Pixel (Modern)
 - Blend of both?





Planning: A Dream without a Plan is just a wish...

Antoine de Saint-Exupéry

 The first 3 habits from Stephen R Covey play a key role to the success of your Display

Be Proactive

- Take initiative in your Display by realizing that your decisions (and how they align with your own principles) are the primary determining factor in the realization of your Display.

Begin with the end in mind

- Self-discover and clarify your own character values and Display goals. Envision the ideal characteristics for each of your various goals and then the inter-dependencies in Display.

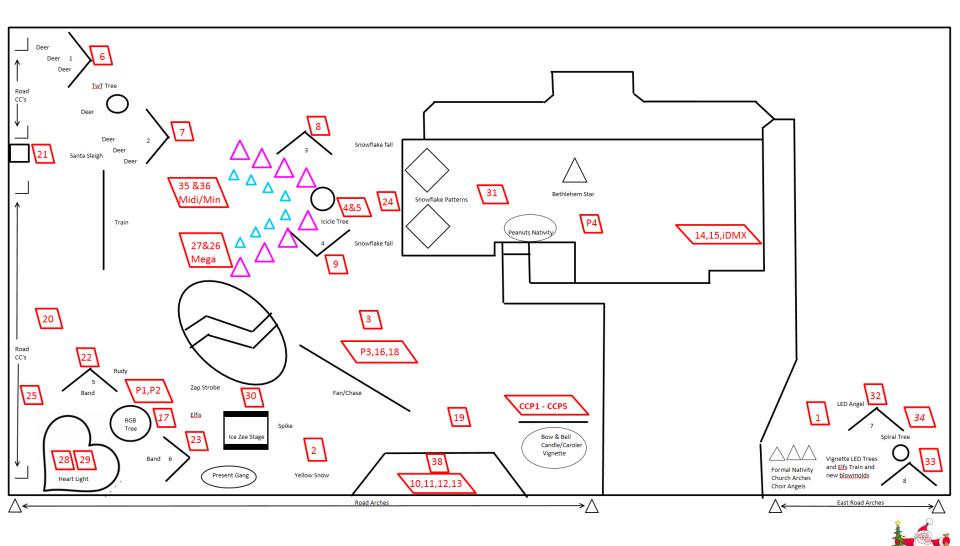
Put first things first

- Plan, prioritize, and execute your tasks based on importance rather than urgency. Order of Operation

- Sooooo,....Do not take this lightly
- Do you have the following....
 - Does not have to be fancy
 - Paper or Electronic
 - Display Plan
 - · Electrical Plan
 - Communications Plan
 - Notes
 - Punch & To- Do Lists Reference Info

Planning - Yard Layout





Planning - Electrical



Controller Totals

Amps Bulbs Watts

1950

1600

1600

3895

1500

4000

3200

1.382

0.333

0.333

0.313

0.833

1.920

0.333 6.214

Light Inventory													
¥	Bulb/Light List	WATTS / Amps	Power Type	Item Type	Bulbs per string	Volts AC/D C	Watts per Belb	Watts per string	AMPs per light	AMPs per String		Feet Per String	
14													
15	Inflatable Igloo	52.0000	WATTS	Unit	1	120	52.0 Watts	52 Watts	.4333 Amps	0.433			
16	Inflatable Santa	80.0000	WATTS	Unit	1	120	80.0 Watts	80 Watts	.6667 Amps	0.667			
17													
18	Flash House	0.7900	AMPS	String	240	120	.385 Watts	95 Watts	.0033 Amps	0.790			
19	Flash Sit	0.7500	AMPS	String	250	120	.36 Watts	30 Watts	.003 Amps	0.750			
20	Flash Run	0.7500	AMPS	String	250	120	.36 Watts	90 Watts	.003 Amps	0.750			
21	Chauvet 200Bs	0.2300	AMPS	Unit	1	120	27.6 Watts	28 Watts	.23 Amps	0.230			
22	Roof Snoflakes LED Rope	0.0900	AMPS	Unit	1	120	10.8 Watts	11 Watts	.09 Amps	0.090			
23	Flood - Small Costco LED	0.0500	AMPS	Bulb	1	120	6.0 Watts	6 Watts	.05 Amps	0.050			
24	Flood - Large Costco LED	0.0900	AMPS	Bulb	1	120	10.8 Watts	11 Watts	.09 Amps	0.090			
25	_												
26	M6 CDI LED 100	0.0600	AMPS	String	100	120	.072 Watts	7 Watts	.0006 Amps	0.060		34	
27	Candy Cane Wire Frame	0.5800	AMPS	String	150	120	.464 Watts	70 Watts	.0039 Amps	0.580			
28	M5 HL Replaceable LED		AMPS		50	120	FALSE	FALSE	FALSE	FALSE		17	
29	C6 CDI LED 100	0.0600	AMPS	String	100	120	.072 Watts	7 Watts	.0006 Amps	0.060		34	
30										95%			
31	Mini 50	0.1960	AMPS	String	50	120		Warning Throsh	iala (Tellau)	334			
32	Mini 35	0.1500	AMPS	String	35	120	.5						
								Controller	Location	Model POLTON	MPC	4 7	

Spreadsheet to manage light inventory and power consumption

Controller 1.25 Owen dawn

0.02

	31	Mini 50	0.1960	AMPS	String	50	120	Controller 1-25 Overview																				
	32	Mini 35	0.1500	AMPS	String	35	120	1	.5	Controller Location Model		TOLTSAMPS 1		-	- 2		-		-		-			43	43	- 44	-	
- 3	33	LED Angel	0.0800	AMPS	String	250	120	1	.0					0.04			0.50	-	•		454	-			0.04	0.75	0.54	- 13
- 3	34							4	Cantraller 1	West Yard - Mega Tree	CTB16D.1	120	15	0.01							1.34	$\overline{}$	$\overline{}$	-	0.84		0.54	
	35	Costco Deer Down WF	1.3400	AMPS	String	350	120		.4 Cantrallor 2	Flash	CTB16D.2	120	15	0.06	0.79	0.75		0.75	0.01	0.75	0.01	0.75	0.01	0.75	0.01	0.06	0.05	0.
- 3	36	Costco Deer Up WF	1.3400	AMPS	String	350	120		.4 Controller 3	Front Yard / Maxi Tree	CTB16D.3	120	15		0.60		0.57		0.51	0.07	2.20			0.32	0.38	0.08	0.08	0.
	37	Old Deer Down WF	1.0100	AMPS	String	300	120		4 Controller 4		CTB16D.4	120	15	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.
- 3	38	Old Deer Up WF	1.4100	AMPS	String	280	120		Controller 5		CTB16D.5	120	15	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.
- 3	39	Snowflake Fall	0.0900	AMPS	Unit	1	120		10 Controller 6	LLA1	CTB16D.6	120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.
-	40	Icicle Reinders LED	0.0250	AMPS	String	70	120	1	Controller 7	ILA2	CTB16D.7	120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1
	41							1	Controller 8	LLAS	CTB16D.1	120	15	0.02		-	_	_	$\overline{}$	0.02	$\overline{}$	0.02	0.02	\longrightarrow	0.02	$\overline{}$	0.02	_
- 4	42							4			CIB16D.8			0.02		*****				0.02		0.02	0.02	0.02	0.02	0.02	0.02	_
-	43							4	Controller 9	LLA4		120	15	-		_	_	_	$\overline{}$		$\overline{}$	$\overline{}$	$\overline{}$	\longrightarrow	$\overline{}$	$\overline{}$	$\overline{}$	_
	44	Zap Strobe	2.0000	AMPS	Unit	1	120	2/	4(Cantraller 10	Road Arches		120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.
	45	Yoke	3.0000	AMPS	Unit	1	120	30	^{6 (} Cantraller 11	Road Arches		120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02		0.02	0.
-	46	DMX Balls	0.1000	AMPS	Unit	1	120	1	¹² Controller 12	Road Arches		120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.
	47	=						-	Controller 13	Road Arches		120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.
	48	HLE Icicles	0.0250	AMPS	String	70	120	┨ .	Cantraller 14	Roof / Eve		120	15	0.90	0.08	2.70	0.12	0.58	0.58	0.21	0.21	0.21	0.21	0.28		0.02	0.02	0.
	50							-	Controller 15	Boof / Eve		120	15	7.65	0.05	0.07	0.25	0.09	0.08	0.08	0.08	0.08	0.04	0.02	0.02	0.80	0.02	0.
	30				Salare	a cell fo	r non-e	n 20	_			120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.
Select a cell for pop-up ass ⁰ untrallor 16 15 amp circuit = Power (Watts) = Volts (120) x Amps (15) ** Ometrallor 17							120	15	0.05	0.01	0.01	0.01	0.07	0.15	0.15	0.02	0.02	0.01	0.01	0.01	0.01	0.15	0.					
	20 amp circuit = Power (Watts) = Volts (120) x Amps (20) Controller 18 Chast Trees 1-16								120	15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.			
					-,					Front Yard Church Arches		120	15	7112	0.52	-	_		0.03	3.46		0.28	2 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.					
														0.12				0.12		0.12		0.12						_
									Cantraller 20			120	15														$\overline{}$	_
									Controller 21	Road Candy Canes		120	15	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.





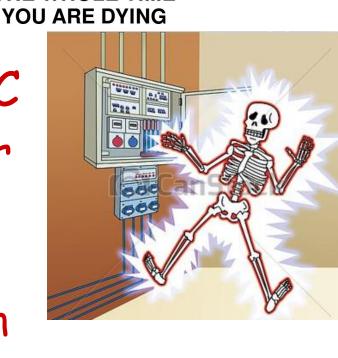
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Planning - Electrical

- DANGER **NOT ONLY WILL THIS** KILL YOU, IT WILL HURT THE WHOLE TIME



- · You will need to get comfortable with AC & DC
- · How will you access power outside
 - Extension cords
 - In Yard or Central location
 - Temporary sub panels
 - DO NOT OVER LOAD YOUR POWER GRID!



Planning - Electrical

- NOT ONLY WILL THIS
 KILL YOU, IT WILL HURT
 THE WHOLE TIME
- Know, and Pay attention to wire capacity
- Use your Spread sheet for every element you use!
- GFCI's vs AFCI's?
 - Protect you, guests, family, pets and equipment
 - Buy quality, less issues
 - Understand how to effectively use them



Planning - OneNote Notebook



Search (Ctrl+E)

+ Add Page

To - Do's / Notes

Yard Plan 2011

Yard Plan 2012

Yard Plan 2013

Yard Plan 2014

Yard Plan 2015

Yard Plan 2016

Yard Plan 2017

Display Misc - Fixit - Wish DMX - Pixel Plan Yard Plan 2010

₽ →

★ To - Do's / Notes

Monday, March 10, 2008

Potential Sequence Song List

- 1. Auld Lang Sine for New Years show
- Wonderland Christmas Boston Pops Festival Mix See video
- Wonderland Christmas Disco Santa See video
- 4. TSO An Angel Returned
- Boggy Helms Jingle Bell Rock
- 6. Xmas Party Rockin Little Christmas Tree
- 7. Faith Hill Where are you Christmas Pre Sequence in Directory
- Beach Boys Little St Nick
- Mannheim Steamroller Sleigh Ride
- TSO Appalachian Snowfall
- 11. Christmas Vacation
- 12. Bing Crosby Jingle Bells (Swing arrangement)
- 13. Reflections on Earth
- 14. Disney Angel
- 15. Spiraling Do you hear what I hear http://www.vimeo.com/18222650 Sequence downloaded to Staging.

General/Thoughts/Fix-It items

- New Merry Christmas Sign?
- Make either firework/star sticks in place of Snowflake fall
- New red Bows to replace bow/bell, candle and make same as CC's on Bedroom window
- Star w/in Star wireframe
- 5. Ferris Wheel
- Add smaller arches under LLAs.
- 7. Snowflakes on roof, 3' spacing good.

RGB Tree Pixel Info:

- http://www.aliexpress.com/fm-store/701799/209889132-521371851/RGB-full-LED-pixel-module-WS-2801-IC-DC5V-input-50pcs-a-string.html - From Ray Wu's site.
- 2. 2801 CCR http://www.aliexpress.com/fm-store/701799/209843764-465132154/5m-led-digital-strip-DC5V-input-WS2801IC-256-scale-32pcs-IC-and-32pcs-5050-SMD-RGB.html

Notes During Set up

- 1. House C9's make sure you offset the first bulb on corner of house by gas meter. Do not tie socket to
- 2. 10 North poles on each side of Driveway, 5.5' spacing on west 6' on east
- 3. RGB Balls in Mega. Make 2 sides higher than middle for top most balls.

What to re-think

- 1. Light "North Pole" sign on North Pole
- Island flood wash
- Smaller bulbs in BM's
- 4. RGB Matrix on Porch Posts

http://www.frostking.com/electric-roof-cable-kits/

Heat Cable...

LONG TERM Consideration

- - a. Get with Mike Z to discuss
- 2. Cover roof pitches with lights and net to simulate snow like Disney Castle and Darren/I discussed



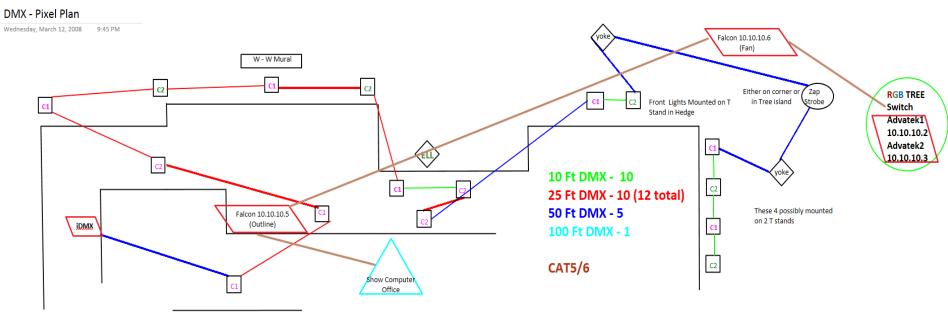
php?/topic/51115-galvanized-or-black/>





Planning - Communications





- DWX
 - Fixtures and Cabling
- E1.31
 - Switches & Controllers
- Wireless
 - Transmitter and Recievers
- Cat5/6



Doing a Display, you WILL spend a LOT of TIME, you don't HAVE to spend lot of MONEY....

- · BUDGET
- What is your biggest SPEND doing a display?
 - Time
 - Becomes the major budget in long term
 - Save stress, double your time allotment for EVERYTHING
 - Money
 - What are you comfortable spending
 - Research for frugal purchases or more DIY
 - Never spend all your budget, keep some in reserve for Set Up!





- · Logistics?
 - What will you store things in....
 - Where will you store things
 - Ensure you are organized and know where things are at in storage (inventory list)
- Security?
 - Your Display, your family and your guests
- Charity?
 - Is this something you desire to do
 - Collaborate and communicate with your Charity
 - Is this advertised



- Publicity
 - Website
 - Facebook page
 - Local Publications
 - Newspapers, Radio or TV
 - UNDERSTAND HOW DOING THIS WILL IMPACT YOU, YOUR FAMILY, NEIGHBORHOOD!
- Neighbor Relations
 - Impact to your area
 - HOA consideration?
- Devise a Plan and STICK TO IT!
 - Resist those "On man, I gotta add that..." urges
 - Less stress
 - Start planning for next year NOW!...
 - · Capture notes, What worked/didn't, New Additions, Fix It etc.... (OneNote) Guest input



Insight:

When you change the way you look at things, the things you look at change....

Wayne Dyer

Insight

- Where do you go for...
 - Information?
 - Ideas?
 - Help?
 - Forum Pages
 - FaceBook Pages Too many to post!
 - · Instructors caution, wear leather chaps....
- Get plugged into your local decorating community
 - Light up Ohio, ACDC, PacNW C.L.A.P., EPIC......
 to name just a few....
 - Christmas Expo at local level (Mini)
 - Find a buddy/mentor (or become one!)



7/21/2023

Insight - Visit by clicking logo











Light-O-Rama Forums







Insight

- · How do you look at your display?
 - Do you see your Display as lights and elements or as a Composition?
 - Do you see your Display the same way your visitors do? Does this matter to you?
 - Do you spend time outside visiting during the Season and interacting with your visitors
 - Do you get input from family, friends?
- Its not WHAT you have, its what you
 DO... with what you have....
 - Are you unique? or just a me too

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Insight



 Consider adding an umbrella policy on your homeowners policy

- Crawl Walk Run!!!
 - Cannot be stressed enough
 - Ensure balance in life work family Christmas
 - Remember its Christmas!





Getting Started: If you have a Dream, you can spend a lifetime Studying and Planning, getting ready. What you DO should have meaning and purpose. Get Started by taking that first step...

Drew Houston

Getting Started

- Keeping in mind the "B" word.... Budget...
 as the clock is ticking...
- When do you "Start"...?
 - Building/acquiring new elements....
 - Fix its....
 - Programming if you animate...
 - Setting things up, Thanksgiving !!?
 - · Do you know/understand your logistics?
 - Weather, Leaves? Lawn growth? HOA Rules, Etc...
- Organize your approach
 - USE your plan documents
 - First things first... "Order of Operation"

Getting Started

- Make your connection cords
 - SPT1 or SPT2 "Lamp Cord"
 - Vampire plugs and sockets
 - Both same amperage (7amps), just a bit thinner insulation
 - Socket or "Channel" connection cords
 - Customized Harnesses
 - Saves space and weight in storage!
 - Standardize on one and keep an inventory on hand
 - NOTE: SPT2 is compatible with store bought cords
- Color coding Power & Communications
 - Switched for static grid (Blue)
 - 24x7 for equip (Red)
 - Buy good quality 14-3 cords or better
 - AC Network (Green) DC Network (Black)





Getting Started



- Power connections off the ground
 - Stakes, boards, rocks, bricks etc..
 - DO NOT WRAP your plugs!
- Tweak your layout considering visitor viewing lines/angles, layering elements
- Consider assembling a portable toolkit and carry it at all times
 - Zip ties, nippers, small pliers, wire stripper screwdrivers, butane soldering iron
- Tap into family, friends, neighbors, volunteers early on for help
 - Schools for Community Service Hours





7/21/2023

Cellar and the Attic: All the real eclectic stuff in life ends up in the Cellar or the Attic

Mark Zembruski

- Pre-Season Sales (Jan-April)
 - LEDs, Pixels, Misc...
 - Announced on forums, FB pages and emails from vendors
- · Group buys on forums/pages or local mini's
- Keep spares on hand as much as possible
 - Elements were possible Lights/Pixels
 - Spare controllers Spare channels
 - DonglesPower supplies
- Backup your electronic data!
 - Keep a history of each year
 - Sequencing, back up ALL THE TIME



· Organize all your cords by length



- Cut off the irritating tags on your light strings, and store-bought extension cords
 - It takes time but looks 5000 much better.

- · Get a small jar and save the 3A fuses that come in the irritating plastic blob
- Recycle your used, dead, burnt-out cords/light strings
 - Find a local store or organization
 - Save the Male/Female ends off dead light strings as these do fail!
- When using Silicone, be sure to use RTV Silicone or Lexel
- Outdoor vs Indoor
 - So.... What's the difference?
 - Mostly nothing, its all in the Marketing!



- Keep your eyes open in every store you go into ALWAYS with your display in mind.....
 - You never know when you see something that can solve a logistic issue





That's a Wrap! Mr. T Says...



- In everything you do, remember... "Once Mr. T is out of the Van, there is no getting him back in".
- Steal ideas for your needs, but never forget where you got it from
 - See how you can put your own twist on it.....
- Do what YOU want to do, and have fun doing it. Remember is Christmas!
- Don't create something, where someone thinks Hannibal, er, ah "Christmas threw up on the lawn!"

That's a Wrap!

Mr. T - Christmas Story



Questions?





Thank you for attending! Mark "Zman" Zembruski WoodinvilleWonderland.com modec@frontier.com