

[MUSIC]

[Pop captions up]

**Ryan Yewell:** HEY I'M RYAN YEWELL,  
BLOGGER, LED FLASHLIGHTS AND PRINT IN THE  
DIGITAL AGE.

[Pop captions down]

**Ryan Yewell:** THAT AND THE  
YEWELL'S JEWEL TODAY ON "THE LAB".

[MUSIC]

[Beeping]

[MUSIC]

**Leo:** HEY HOW ARE YOU?

[Pop captions up]

**Leo:** GOOD TO SEE YOU AND  
WELCOME TO "THE LAB".  
I'M LEO LAPORTE AND THIS IS THE  
SHOW WHERE WE EXPLAIN HOW  
TECHNOLOGY WORKS.  
WE SHOW YOU HOW PEOPLE ARE  
USING IT TO CHANGE THE WORLD,  
CHANGE THEIR LIVES OR JUST HAVE  
A LITTLE MORE FUN.  
SPEAKING OF FUN LADIES AND  
GENTLEMEN KATE ABRAHAM.

[Pop captions down]

**Kate:** ALWAYS.

**Leo:** NOTHING BUT FUN AND EPISODE 153 --

**Kate:** YES.

**Leo:** I SEE ON OUR MAGIC CLIPBOARD.  
STOWE BOYD IS HERE.  
WE'RE GONNA TALK ABOUT THE  
FUTURE OF PRINT MEDIA, MEDIA IN  
A DIGITAL AGE.

**Kate:** ABSOLUTELY.

**Leo:** DO YOU THINK MAGAZINES ARE DEAD?  
[Pop captions up]

**Kate:** UM NOT NECESSARILY.  
I THINK THERE'S STILL A DEMAND  
FOR THEM WHEN REGARDS TO LIKE  
TRAVELLING THAT KIND OF THING.

**Leo:** I GUESS WHEN YOU'RE ON THE PLANE.

**Kate:** YEAH OR LIKE YOU KNOW  
ON A TRAIN OR WHATEVER I THINK  
THAT THE INFORMATION THAT YOU  
GET FROM MAGAZINES AND  
NEWSPAPERS IT'S ALL AVAILABLE ONLINE NOW.  
IT'S FREE AS WELL.

**Leo:** YEAH AND IT'S SO  
EXPENSIVE TO PUT IT ON PAPER.

**Kate:** YEAH.

**Leo:** KILL TREE, THE DEAD  
TREE MEDIA IS IN TROUBLE ANYWAY.

**Kate:** EXACTLY.

**Leo:** IT'S NOT DEAD YET.  
ALSO COMING UP FRANK LINHARES.  
HE'S GONNA SHOW YOU HOW TO --

**Kate:** I DON'T WANT TO KNOW.

**Leo:** WELL YOU COULD BUY A  
FLASHLIGHT FOR A BUCK AND A HALF.  
BUT WHAT THE HECK LET'S BUILD  
OUR OWN.

HE'S GOT LIKE IT LOOKS LIKE  
FLYFISHING APPARATUS AND  
SCISSORS AND SAULDERING IRONS.  
I DON'T EVEN KNOW WHAT HE'S  
GONNA DO.

**Kate:** I DON'T GET INVOLVED.

**Leo:** YEAH YOU'RE PROBABLY RIGHT.  
I WISH I DIDN'T HAVE TO AND ALSO BLOGHER.

**Kate:** YES.

**Leo:** DO YOU KNOW ABOUT BLOGHER?

**Kate:** I DO INDEED.

**Leo:** YOU'RE A FEMALE BLOGGER.

**Kate:** MMM-HMM, BLOGGER.

**Leo:** AND SO YOU WOULD BE  
INTERESTED IN BLOGHER.

**Kate:** ABSOLUTELY.

**Leo:** IT'S ACTUALLY WE'RE  
GONNA TALK ABOUT WOMEN AND BLOGS.  
AND, AND OF COURSE YOU KNOW  
BLOGS NOWADAYS IT USED TO BE  
YOU'D SAY OH THIS IS SOMETHING  
VERY DIFFERENT.

THIS IS SOMETHING OUT OF THE  
MAINSTREAM.

NOW THIS IS WHERE PRINT IS GOING --

**Kate:** YEAH.

**Leo:** IS, IS ONLINE SO WE'LL  
TALK ABOUT THAT.  
IT'S GONNA BE A LOT OF FUN.  
A GREAT SHOW TODAY, GREAT  
CALLERS TOO.

**Kate:** YES INDEED.

**Leo:** I KNOW YOU'VE LINED UP

SOME GOOD UNS.

WHERE DO WE START?

**Kate:** WE'RE ACTUALLY GOING  
TO SAULT STE. MARIE IN ONTARIO.

**Leo:** UH-HUH.

**Kate:** AND WE HAVE RICHARD ON SKYPE.

**Leo:** YOU SAY THAT VERY WELL.

**Kate:** SAULT STE. MARIE.

**Leo:** THAT'S VERY HARD TO SAY.

**Kate:** HAVE A GO.

**Leo:** AT LEAST LOOKING AT HOW  
IT'S SPELLED.

HEY RICHARD HOW ARE YOU TODAY?

THANKS KATE.

**Richard:** I'M DOING JUST FINE LEO.

HOW ARE YOU?

[Pop captions up]

**Leo:** I'M WONDERFUL!

WELCOME TO THE SHOW.

**Richard:** THANK YOU VERY MUCH.

**Leo:** WHAT CAN I DO FOR YOU?

**Richard:** I'M JUST THINKING  
ABOUT BUILDING ANOTHER COMPUTER  
AND IN THE PAST I'VE  
BOTTLENECKED THE COMPUTERS WITH  
THE PROCESSOR SPEED.

WHAT'S THE BOTTLENECK NOW?

**Leo:** OH WHAT A GREAT QUESTION.

[Pop captions down]

**Leo:** WHAT A GREAT QUESTION.  
YEAH CAUSE THE PROCESSORS HAVE  
GOTTEN FASTER AND FASTER AND  
FASTER AND NOW A LOT OF THE

REST OF THE YOU KNOW THE, THE  
PROCESSORS ARE WAITING FOR THE  
REST OF THE COMPUTER TO CATCH  
UP WITH THEM AREN'T THEY?

**Richard:** YEAH.

**Leo:** WHEN YOU'RE BUILDING A  
COMPUTER THOUGH YOU PROBABLY  
SHOULD START BY THINKING ABOUT  
WHAT YOU'RE GONNA BE DOING WITH IT.

[Pop captions up]

**Leo:** CAUSE SOME THINGS WELL  
FOR INSTANCE IF YOU'RE  
RENDERING VIDEO OR TRANSCODING VIDEO.  
YOU KNOW YOU DO VIDEO EDITING  
OR YOU DOWNLOAD MOVIES AND YOU  
TRANSCODE EM SO YOU CAN BURN EM  
ON DVD OR SOMETHING LIKE THAT.

[Pop captions down]

**Leo:** THAT'S VERY CPU DEPENDENT.  
THE CPU IS CHURNING ALONG,  
CHUGGING ALONG.  
IT'S NOT WAITING FOR THE HARD DRIVE.  
IT'S NOT WAITING FOR MEMORY.  
IT NEEDS SO THEN A FAST  
PROCESSOR HELPS A LOT.  
IF YOU'RE DOING A LOT OF  
DATABASING A HARD DRIVE IS VERY IMPORTANT.  
IT'S CONSTANTLY ACCESSING THE HARD DRIVE.  
HARD DRIVE SPEED BECOMES VERY IMPORTANT.  
IF YOU'RE USING WINDOWS VISTA  
RAM BECOMES VERY IMPORTANT.

[Laughs]

**Leo:** LOTS OF MEMORY.

SO IT REALLY DOES DEPEND A  
LITTLE BIT ON WHAT YOU'RE DOING WITH IT.  
I WOULD SAY THOUGH NOWADAYS YOU  
COULD PRETTY MUCH GET BY WITH  
ANY IF ARE YOU LOOKING AT CORE  
2 PROCESSORS?

**Richard:** YEAH I'VE BEEN THINKING ABOUT THAT.

**Leo:** THE INTELS?

I THINK THE ANY INTEL CORE 2 IS FINE.

I CERTAINLY WOULDN'T PAY  
HUNDREDS OF BUCKS MORE TO GO  
FROM 2.8 GIGAHURTS TO 3  
GIGAHURTS OR FROM 1.8 TO 2.2.

THOSE ARE MINOR JUMPS.

YOU KNOW GET THE FASTEST ONE

YOU CAN YOU KNOW THAT FITS IN

WITH THE REST OF YOUR SYSTEM.

I WOULD GET A MINIMUM OF 2 GIGS  
OF RAM NO MATTER WHAT.

YOU'RE GONNA RUN VISTA PROBABLY YEAH?

[Talking background]

**Richard:** YEAH.

**Leo:** YEAH.

YOU KNOW I LOVE THE ENTHUSIASM  
WITH WHICH RICHARD SAYS THAT YEAH.

**Richard:** WELL I'M JUST  
TRYING TO FEND OFF THE TODDLER HERE.

**Leo:** OH OKAY.

[Laughs]

**Leo:** YEAH I GUESS SOMETHING --

**Richard:** YEAH BUT --

**Leo:** NOBODY SAYS YES I'M SO  
EXCITED, I'M GONNA BE RUNNING

THE NEW VISTA!

WELL VISTA IS A BIT OF A PIG SO  
MORE MEMORY'S BETTER.

SOME SAY YOU, YOU WANT 4 GIGS.

I'D SAY 2 MINIMUM.

IF YOU CAN AFFORD TO GO UP TO 4  
GO AHEAD.

UNLESS YOU'RE USING VISTA 64,  
THE, THE 64-BIT VERSION OF, OF  
VISTA IT WON'T SEE MORE THAN 4 GIGS.

SO 4 IS THE MAXIMUM ON THAT.

IN FACT EVEN IF YOU HAVE 4 GIGS  
IN VISTA 32 IT USES SOME OF  
THAT ADDRESS SPACE FOR VIDEO  
MEMORY AND SOME OTHER STUFF SO  
YOU WON'T EVEN SEE ALL 4 GIGS.

I'D STILL PUT 4 IN.

I THINK 4 IS IT VISTA WORKS  
BETTER WITH 4.

LET'S JUST, LET'S JUST PUT IT  
THAT WAY.

UM AND THEN HARD DRIVE SPEED  
YOU KNOW THERE'S NO REASON TO  
USE ANYTHING LESS THAN 7200 RPM  
I DRIVES.

I OFTEN WILL BUY FASTER DRIVES.

I LIKE THE WESTERN DIGITAL  
RAPTOR DRIVES.

I'LL PUT A 10,000 RPM DRIVE IN  
AS MY MAIN DRIVE UM JUST CAUSE  
I LIKE HOW FAST APPLICATIONS  
LOAD WHEN I USE THAT.

**Richard:** YOU KNOW RAID AND,

AND THE OTHER PROGRAMS?

**Leo:** YOU KNOW I'M, I'M, I'M

A LITTLE BIT OF A MAVERICK ON  
MOTHERBOARD RAID.

THE RAID THAT COMES WITH MOST  
MOTHERBOARDS ISN'T IS, IS A  
BIOSPACED RAID.

IT'S NOT A HARDWARE RAID AND  
IT'S REALLY I DON'T RECOMMEND IT.

IF YOU, IF YOU WANT THE  
BENEFITS OF RAID SPEED AND  
REDUNDANCY RELIABILITY YOU'RE  
BETTER OFF GETTING A REAL RAID  
CARD, AN SATA FAST SATA DRIVES  
AND YOU KNOW I, I THINK ON, ON  
IT'S ONE THING IN A BUSINESS ENVIRONMENT.

FOR MOST PEOPLE UNLESS IT'S FOR  
BACKUP PURPOSES I DON'T THINK  
RAID IS DON'T, DON'T PUT RAID  
IN YOUR PC.

I DON'T THINK IT'S NECESSARY.

**Richard:** OKAY.

**Leo:** JUST PUT GOOD FAST HARD DRIVES.

DO BACK UP BUT GOOD FAST HARD  
DRIVES THAT'S GONNA BE THE,  
YOUR BEST BENEFIT.

NO REASON TO SPEND MORE ON RAID.

**Richard:** THANK YOU VERY MUCH LEO.

**Leo:** YEAH WELL ENJOY YOUR NEW COMPUTER.

YOU'RE YOU KNOW YOU'RE A DYING  
BREED YOU AND ME, THOSE OF US

WHO BUILD OUR OLD, OWN PCS.

AND YOU KNOW WHO'S REALLY DYING

OUT IS OVERCLOCKERS.

THAT'S JUST KIND OF DISAPPEARED ENTIRELY.

FEW PEOPLE STILL DO IT BUT AND

THERE ARE CHIPS YOU CAN STILL

DO IT WITH.

BUT THERE SEEMS TO BE NO NEED.

THESE CHIPS ARE SO FAST WHY BOTHER?

WHY BOTHER?

WELL HAVE FUN RICHARD.

**Richard:** AND THE PRICE HAS COME DOWN.

**Leo:** YEAH. HEY TAKE CARE.

**Richard:** THANK YOU VERY MUCH.

**Leo:** COMING UP WE'RE GONNA

TALK ABOUT THE FUTURE OF PRINT

IN A DIGITAL AGE.

[Pop captions up]

**Leo:** AH VISIONARY AND

CONSULTANT AND FRONT MAN FOR MESSENGER.

STOWE BOYD IS HERE.

WE'LL TALK ABOUT THAT WHEN "THE LAB" CONTINUES.

YOU STAY RIGHT HERE.

[MUSIC]

[Pop captions down]

[Commercial break]

[MUSIC]

**Leo:** RIGHT, WELCOME BACK TO "THE LAB".

LEO LAPORTE HERE.

STU, STOWE BOYD CALLS HIMSELF

THE FRONT MAN FOR THE

MESSENGERS.

**Stowe Boyd:** YEAH.

**Leo:** I LOVE THAT.

THAT'S HIS CONSULTANCY.

HIS BLOG IS AT STOWEBOYD.COM-  
SLASH-MESSAGE AND HE'S REALLY  
KIND OF A, A, A THINKER.

A GUY WHO'S THINKING A LOT  
ABOUT THE FUTURE OF MEDIA OF  
SOCIAL MEDIA IN PARTICULAR.

UM YOU KNOW I ASKED KATE WHEN  
WE STARTED.

IS, IS PRINT DEAD?

ARE, ARE MAGAZINES AND  
NEWSPAPERS DEAD?

THEY'RE CERTAINLY NOT DOING WELL.

**Stowe Boyd:** IT'S, IT'S THEY'RE DYING PRETTY FAST.

[Pop captions up]

**Leo:** MMM-HMM.

**Stowe Boyd:** I MEAN THE  
UNITED STATES IS REALLY ONE OF  
THE PLACES WHERE IT'S HAPPENING  
QUICKER THAN ELSEWHERE BECAUSE  
WE'VE SORT OF GOT THE PERFECT  
STORM IF YOU WILL FOR PRINT JOURNALISM.

[Pop captions down]

**Stowe Boyd:** WE HAD UM, WE  
HAVE THE HIGH COSTS ASSOCIATED  
WITH IT.

**Leo:** PAPER IS VERY EXPENSIVE.

**Stowe Boyd:** EXACTLY AND DISTRIBUTION.

**Leo:** YEP THOSE TRUCKS.

**Stowe Boyd:** I MEAN THE GUY  
DRIVING THE CAR AROUND WITH THE  
GAS GOING THROUGH THE ROOF AND  
HE'S THROWING THIS THING OUT  
THE WINDOW.

**Leo:** YEAH.

**Stowe Boyd:** HITTING MY  
DRIVEWAY EVERY MORNING.  
IT'S KIND OF CRAZY.

**Leo:** NOT TO MENTION THE  
CARBON FOOTPRINT.

[Pop captions up]

**Leo:** I MEAN WE'D LIKE TO  
MAKE THIS MORE FRIENDLY.

**Stowe Boyd:** THAT'S RIGHT AND  
IF YOU WANT TO THINK GREEN,  
GREEN, GREEN IT'S THE WRONG WAY  
TO GO.

**Leo:** RIGHT.

**Stowe Boyd:** AND OF COURSE WE  
ALSO HAD THEN THE CRAIG'S LIST  
REVOLUTION IN THE STATES, WHICH  
MOST PEOPLE SAY ACCOUNTED FOR  
SOMETHING LIKE 37 OR 38% ALL BY  
ITSELF OF THE IMPACT OF YOU  
KNOW THE NEW ECONOMICS ON, ON  
NEWSPAPERS.

[Pop captions down]

**Leo:** NEWSPAPERS COULDN'T  
SELL CLASSIFIED ADS ANYMORE.  
EVERYBODY JUST USED CRAIG'S  
LIST FOR FREE.

**Stowe Boyd:** EXACTLY.  
AND IT, IT REALLY WOUND UP  
BEING, WOUND UP, WOUND UP IN A  
SENSE BEING THE, THE TIP OF --

**Leo:** RIGHT.

**Stowe Boyd:** OF THE CHISEL --

**Leo:** RIGHT.

**Stowe Boyd:** THAT WAS  
BREAKING APART.  
YOU KNOW THE STRANGE  
CONGLOMERATION OF WHAT MAKES UP  
A NEWSPAPER.

AND WHEN YOU THINK ABOUT IT WHY  
DO WE HAVE THIS COLLECTION OF  
THINGS PUT TOGETHER?  
A COMIC STRIP.

THE AUTO PAGES, THE CLASSIFIED  
AD, THE NATIONAL NEWS AND IT'S  
ALL PUT TOGETHER IN THIS ONE  
THING WHICH ONCE UPON A TIME IT  
MADE SENSE.

IT WAS ALL DELIVERED TO YOU.

**Leo:** BUT NOW YOU CAN GO GET  
ADHOC GET WHATEVER YOU WANT  
WHENEVER YOU LIKE.

**Stowe Boyd:** OR BEST OF BREED.

**Leo:** RIGHT.

**Stowe Boyd:** I MEAN YOU, YOU,  
YOU LIVE IN OKLAHOMA.  
DO YOU THINK THEY HAVE AS GOOD  
NATIONAL COVERAGE AS THE NEW  
YORK TIMES?

**Leo:** RIGHT, RIGHT.

**Stowe Boyd:** OR UM DO YOU  
HAVE TO COVER EVERYTHING IN THE AREA?  
WHEREAS A SMALL NEWSPAPER COULD  
DO A BETTER JOB OF HANDLING  
WHAT HAPPENS IN YOUR  
NEIGHBOURHOOD SO.

**Leo:** WELL WHAT ABOUT THE  
NOTION THAT PEOPLE HAVE THAT  
THERE IS SOME EDITORIAL  
EXCELLENCE IN A NEWSPAPER?  
THE NEW YORK TIMES A PAPER OF RECORD.  
IF IT'S NOT IN THE TIMES IT'S  
NOT REAL COMPARED TO BLOGGERS.  
YOU'RE A BLOGGER.  
I'M A BLOGGER AH WHO HAVE NO  
ETHICAL STANDARDS, MAYBE HAVE  
AN AXE TO GRIND.

**Stowe Boyd:** HEY.

[Both laugh]

**Leo:** NOT NECESSARILY.  
NO JOURNALISTIC BACKGROUND NECESSARILY.  
UM CAN BLOGGERS REPLACE JOURNALISTS?

**Stowe Boyd:** UM WELL I'M NOT  
SURE IT'S A REPLACEMENT ISSUE.  
I THINK WHAT WE'RE HAVING IS A  
TRANSITION RIGHT.  
SO THE NOTIONS OF CLASSIC,  
CLASSICAL JOURNALISM IS THE  
NOTION OF SOME KIND OF UNBIASED IMPARTIALITY.

**Leo:** RIGHT, WHICH WE'VE ALSO  
LEARNED IS BY THE WAY NOT SO  
TRUE ANYMORE.

**Stowe Boyd:** WELL RIGHT  
EXACTLY AND THAT'S, THAT'S YOU  
KNOW THE EMPEROR HAS NO CLOTHES.

**Leo:** RIGHT.

**Stowe Boyd:** I MEAN BUT THE  
IN, THE IDEA BEHIND IT WAS  
PERHAPS DID, DID PERHAPS PLAYED

A REALLY IMPORTANT ROLE IN OUR SOCIETY.

**Leo:** YEAH.

**Stowe Boyd:** IN A TIME WHEN  
CERTAIN POWERFUL PEOPLE  
COULDN'T BE HELD ACCOUNTABLE.

**Leo:** RIGHT.

**Stowe Boyd:** HOWEVER I'D LIKE  
TO BELIEVE THAT THINGS HAVE  
PROGRESSED A BIT IN WESTERN CIVILIZATION.

[Pop captions up]

**Stowe Boyd:** AND SO IT IS  
MORE THE CASE THAT OTHER KINDS  
OF AGENCIES, INDEPENDENT THIRD-  
PARTIES WHO ARE NOT JOURNALISTS --

**Leo:** MMM-HMM.

**Stowe Boyd:** INCLUDING NOW  
JOURNALISTS AH BLOGGERS --

[Pop captions down]

**Leo:** MMM-HMM.

**Stowe Boyd:** CAN IN FACT GET  
ACCESS TO INFORMATION WHICH IS  
INCREASINGLY ONLINE THAT THEY  
NEED IN ORDER TO DETERMINE  
WHETHER A POLITICIAN IS TELLING  
THE TRUTH OR A LARGE CORPORATION IS --

**Leo:** SOMETIMES --

**Stowe Boyd:** IS POLLUTING A, A LAKE SOMEWHERE.

**Leo:** SOMETIMES THOUGH  
BLOGGERS SEEM LIKE A SNARLING  
PACK OF HOUNDS.  
I MEAN I LOOK AT WHAT HAPPENED  
TO DAN RATHER AND, AND NOW  
THERE'S SOME QUESTION WHETHER

THAT YOU KNOW HE WAS KIND OF  
RAILROADED OUT BY BLOGGERS IN  
MAYBE NOT COMPLETELY APPROPRIATELY.  
UM DO YOU WORRY THAT, THAT IT'S  
MORE LIKE A MOB MENTALITY WHEN  
BLOGGERS GET TOGETHER?

[Pop captions up]

**Stowe Boyd:** I THINK WE'RE  
STILL IN A SITUATION WHERE  
IT'S, IT'S REASONABLE, SENSIBLE  
AND HELPFUL FOR INDIVIDUALS TO  
SPEAK TRUTH TO POWER.

**Leo:** YES I AGREE.

**Stowe Boyd:** OKAY.

**Leo:** YEAH.

[Pop captions down]

**Stowe Boyd:** AND SO --

**Leo:** THAT'S THE JOB OF THE FOURTH ESTATE.  
THAT'S THE PRESS' JOB.

**Stowe Boyd:** RIGHT AND, AND  
BUT IT'S DRIBBLED OVER NOW.  
SO AND IN PARTICULAR PEOPLE WHO  
ARE WIDELY READ WHETHER OR NOT  
THEY'RE APPOINTED BECAUSE OF AN  
EDITORIAL DECISION AT THE NEW  
YORK TIMES.

**Leo:** RIGHT.

**Stowe Boyd:** OR BECAUSE LOTS  
AND LOTS OF PEOPLE HAVE DECIDED  
THAT WHAT THEY SAY MATTERS.

**Leo:** RIGHT.

**Stowe Boyd:** THEY HAVE  
INFLUENCE AND IN FACT WE'RE,

WE'RE SEEING A WANING INFLUENCE  
OF THE TRADITIONAL PRINT MEDIA  
AND A RISING --

**Leo:** OF MATT DRUDGE.

**Stowe Boyd:** WELL NOT ONLY  
MATT DRUDGE BUT YOU KNOW  
MICHAEL ARINGTON.

**Leo:** RIGHT.

**Stowe Boyd:** OR STOWE BOYD  
FOR THAT MATTER.

**Leo:** RIGHT.

**Stowe Boyd:** WHERE UM YOU  
KNOW IN CERTAIN CONTEXTS THOSE  
PEOPLE'S AUTHORITY COUNTS FOR  
SOMETHING.

**Leo:** RIGHT, RIGHT, RIGHT.

**Stowe Boyd:** AND AH --

**Leo:** WELL WHETHER YOU LIKE  
IT OR NOT IT'S CLEARLY HAPPENING.

**Stowe Boyd:** BUT IT'S A MERITOCRACY.  
I THINK IT'S, I THINK IT --

**Leo:** IS IT A MERITOCRACY?

**Stowe Boyd:** IT IS A MERITOCRACY.

**Leo:** OR JUST SOMEBODY WHO  
SHOUTS THE LOUDEST AND WAVES  
HIS FLAG THE --

**Stowe Boyd:** NO, NO IT'S NOT  
A FUNCTION OF LOUDNESS.  
IT'S A FUNCTION OF HOW MANY  
PEOPLE DECIDE THAT WHAT YOU SAY COUNTS.

**Leo:** RIGHT.

**Stowe Boyd:** THEY MAKE LINKS  
TO YOU AND THEN YOUR GOOGLE

RANK GOES UP.

**Leo:** RIGHT, RIGHT.

**Stowe Boyd:** UM THEY SUBSCRIBE --

[Both talking at once]

**Leo:** IT'S A DEMOCRACY.

IT'S NOT A MERITOCRACY.

**Stowe Boyd:** THEY SUBSCRIBE

TO, WELL YES BECAUSE IN GENERAL

THE PEOPLE WHO RISE TO THE TOP

ARE THE ONES WHO DO A BETTER

JOB OF IT.

**Leo:** RIGHT.

**Stowe Boyd:** I MEAN PEOPLE

AREN'T YOU KNOW READING A BLOG

BECAUSE SOMEBODY'S DUMB AND

THEY THINK IT'S FUNNY.

THEY MIGHT DO THAT ONCE.

**Leo:** I HAVE TWO WORDS FOR YOU.

**Stowe Boyd:** YES.

**Leo:** PEREZ HILTON.

HOW DO WE EXPLAIN THAT THEN?

**Stowe Boyd:** WELL I MEAN THE

WORLD IS FULL OF SENSATIONALISM

AS WELL.

**Leo:** OKAY, OKAY.

[Laughs]

**Stowe Boyd:** I MEAN IT'S NOT ALL PERFECT.

**Leo:** WITH THE KINDLE AND

EBOOKS AND THINGS LIKE THAT IS

THAT GONNA REPLACE ALSO.

I MEAN WE, WE READ ON THE WEB

ON OUR COMPUTER BUT THAT'S NOT

A VERY SATISFYING EXPERIENCE.

I STILL LIKE SPREADING THE NEWSPAPER.

HOW ABOUT THESE EBOOK READERS?

**Stowe Boyd:** WELL WE HAVE A  
FORM FACTOR PROBLEM AND YOU  
KNOW THAT'S WHAT KINDLE IS  
ATTEMPTING TO RESOLVE.

**Leo:** RIGHT, RIGHT.

**Stowe Boyd:** AND YOU KNOW THE  
THING IS MORE OF A BOOKISH FEELING THING.

**Leo:** RIGHT.

**Stowe Boyd:** AND THE  
EXPERIENCE IS MORE LIKE A BOOK  
THEN YOU KNOW SITTING AT YOUR  
COMPUTER AND HITTING THE MOUSE.

**Leo:** MMM-HMM.

**Stowe Boyd:** BUT AS WE WERE  
TALKING ABOUT EARLIER, THE,  
THE, THE REVOLUTION OF THE  
BREAKTHROUGH WITH KINDLE IS, IS  
THE CELLULAR MODEM BUILT INTO  
IT THAT ALLOWS YOU TO DOWNLOAD  
YOUR NEWSPAPER.

**Leo:** RIGHT.

**Stowe Boyd:** WHEREVER YOU ARE  
AT LEAST NOW IN YOU KNOW IN THE  
UNITED STATES.

**Leo:** RIGHT.

**Stowe Boyd:** I GUESS IF I HAD  
THE KINDLE WITH ME HERE IN  
CANADA I WOULD BE OUT OF LUCK.

**Leo:** RIGHT.

**Stowe Boyd:** BUT I THINK  
THAT'S A BRILLIANT INSIGHT AND

ALSO THE NOTION THAT YOU COULD  
ON A WHIM, A SPUR OF THE MOMENT  
BUY A BOOK ON YOUR COMMUTE AND  
START READING IT.

**Leo:** WELL YOU'RE CERTAINLY  
IN A, IN A COMPLETE SEE CHANGE  
IN MEDIA HOW IT'S CREATED, HOW  
IT'S CONSUMED AND IT'S KIND OF  
HARD TO KNOW WHAT'S REALLY  
GOING ON.

IT'S A WHIRLWIND.

BUT IT IS CLEAR THAT THE OLD  
WAY OF DOING THINGS IS --

**Stowe Boyd:** WELL --

**Leo:** IS, IS, IS IN TROUBLE.

**Stowe Boyd:** WE'RE, WE'RE  
DEFINITELY JUST AT THE WHAT WAS  
THE WINSTON CHURCHILL LINE?  
THIS IS THE NOT THE BEGINNING  
OF THE END BUT THE END OF THE  
BEGINNING ALL RIGHT.

**Leo:** RIGHT.

**Stowe Boyd:** SO WE'RE, WE'RE  
STILL AT VERY EARLY DAYS --

**Leo:** YES.

**Stowe Boyd:** OF THE SOCIAL  
REVOLUTION AND AS A RESULT YOU  
KNOW THE, THE IMPACT OF SOCIAL MEDIA.  
THE, THE RISE OF THE  
BLOGOSPHERE, NOW THE RISE OF  
SOCIAL NETWORKS WHERE PEOPLE  
ARE POSTING AND SHARING  
INFORMATION IT IS GONNA

CONTINUE TO TRANSFORM WHAT'S  
GOING ON.

AND I THINK FOR EXAMPLE IF YOU,  
IF YOU USE THE THERMOMETER OF  
WHAT'S GOING ON IN PRINT  
JOURNALISM IT'S THE, IT'S ACCELERATING.

**Leo:** YEAH.

**Stowe Boyd:** THE CHANGE IS NOT SLOWING DOWN.

**Leo:** YEAH.

**Stowe Boyd:** IT'S SPEEDING UP.

**Leo:** YEAH.

**Stowe Boyd:** AND THOSE PEOPLE  
ARE GOING SOMEWHERE.  
THEY YOU KNOW THEY'RE EVERY  
HOUR THAT PEOPLE DON'T WATCH  
TELEVISION FOR EXAMPLE THEY'RE  
SPENDING IT ON THE INTERNET.  
I MEAN IT'S ONE HOUR FOR ONE  
HOUR EXCHANGE.

**Leo:** INTERESTING.

**Stowe Boyd:** ACCORDING TO PEW INTERNET SITE.

**Leo:** THAT'S REALLY INTERESTING.

**Stowe Boyd:** SO AND THE SAME  
THING IS HAPPENING NOW WITH NEWSPAPERS.  
PEOPLE ARE GETTING THEIR  
INFORMATION ELSEWHERE.  
SOME PEOPLE ARE GETTING IT FROM TELEVISION.  
THE YOUNGER THE KIDS DON'T GO  
TO THE TELEVISION.

**Leo:** LESS AND LESS FROM TELEVISION.

**Stowe Boyd:** THEY'RE NOT  
GOING TO THE TELEVISION.

**Leo:** YEAH.

**Stowe Boyd:** THEY'RE GETTING  
IT FROM EACH OTHER.  
THEY'RE GETTING IT FROM UM  
STUFF THEY SEE ON YOUTUBE.

**Leo:** MMM-HMM.

**Stowe Boyd:** AND I MEAN  
WE'RE, WE'RE GONNA SEE EVEN  
MORE INTERESTING THINGS TO COME.

**Leo:** YEAH IT'S A VERY  
INTERESTING TIME TO BE AH IN MEDIA.  
I HAVE TO SAY THAT.

[Laughs]

**Stowe Boyd:** YEAH WELL IT'S ALL --

[Both talking at once]

**Leo:** YOU KNOW --

**Stowe Boyd:** WELL I MEAN IT'S  
DANGEROUS LIKE THE CHINESE SITES.  
YOU'RE LIVING IN INTERESTING TIMES.

**Leo:** INTERESTING TIMES.

**Stowe Boyd:** YEAH.

**Leo:** THAT'S RIGHT.

STOWE BOYD WRITES AT --

[Pop captions up]

[Blank for boards]

**Leo:** THAT IS HIS BLOG AND  
HE'S A FRONT MAN FOR THE MESSENGERS.  
HE SPEAKS ALL OVER THE WORLD,  
HELPS PEOPLE DEVELOP  
INTERESTING NEW WAYS OF TAKING  
ADVANTAGE OF THIS NEW WORLD.  
IN FACT I KNOW YOU'RE GONNA  
COME BACK SOON AND TALK ABOUT  
SOME STARTUPS YOU'RE INVOLVED IN.

**Stowe Boyd:** YES.

**Leo:** I LOOK FORWARD TO THAT.

**Stowe Boyd:** VERY HUSH-HUSH.

**Leo:** SHHH WE WON'T SAY A WORD.

THERE'S STOWE'S SITE.

THANK YOU STOWE FOR JOINING US.

**Stowe Boyd:** THANK YOU.

**Leo:** ALL RIGHT.

COMING UP MORE OF YOUR CALLS.

BUT FIRST LET'S TAKE A CLOSEUP

LOOK OF SOMETHING YOU'D FIND

AROUND "THE LAB".

AH THAT SEAN HE'S DONE IT AGAIN.

WHAT THE TECH IS THAT?

I'LL TELL YOU WHAT WE'LL ZOOM

OUT AND FIND OUT WHEN "THE LAB" CONTINUES.

STAY RIGHT HERE.

[MUSIC]

[Pop captions down]

[Commercial break]

[MUSIC]

[Pop captions up]

**Leo:** WELCOME BACK TO "THE LAB".

BEFORE THE BREAK WE TOOK A LOOK

AT THIS CLOSEUP OF A IT LOOKS

LIKE IT'S GOT TO BE A SPEAKER

AND A BUTTON.

BUT WHAT IS IT PART OF?

I DON'T KNOW.

AH THE NOKIA N800.

THAT'S WHAT THAT IS.

[Pop captions down]

**Leo:** THE LITTLE PORTABLE,

THAT'S COOL.

I THINK THAT'S REALLY COOL AND  
NOW THEY'VE GOT AN 810 THAT HAS  
A SLIDEOUT KEYBOARD.

NOW THIS IS GONNA AIR AFTER  
MACWORLD EXPO.

**Sean Carruthers:** YES.

**Leo:** AND THERE ARE PEOPLE  
WHO ARE PREDICTING THAT APPLE  
WILL ANNOUNCE SOMETHING LIKE  
THAT AT MACWORLD EXPO.

DID THEY?

TELL ME PLEASE PEOPLE FROM THE FUTURE.

TELL ME!

SEE THEY CAN'T TALK BACK.

SO THE PEOPLE FROM THE FUTURE  
KNOW WE'RE IN, WE'RE IN IGNORANCE IN.  
MY PREDICTION, APPLE WILL HAVE  
NOTHING INTERESTING TO SAY  
WHATSOEVER.

IT'S GONNA BE A VERY BORING  
MACWORLD EXPO.

[Laughs]

**Leo:** LET'S BUT I TELL YOU  
WHAT WILL BE INTERESTING AND  
THAT'S THE NEXT CALLER.  
KATE'S GOT SOMEBODY GREAT ON  
THE LINE FOR US.

**Kate:** I HAVE INDEED.

I HAVE DAVID FROM CAMBERRA IN  
THE AUSTRALIAN CAPITAL TERRITORY.

**Leo:** OH HELLO DAVID.

HOW ARE YOU TODAY?

[Pop captions up]

**David:** HELLO LEO. HOW ARE YOU?

**Leo:** I'M GREAT. THANKS FOR JOINING US.

**David:** I HAVE A QUESTION.

**Leo:** YES.

**David:** RELATING TO A  
MACSTORE 320 GIG EXTERNAL USB DRIVE.

**Leo:** YES SIR.

**David:** WHICH I USE WITH MY  
DELL XP LAPTOP.

**Leo:** OKAY.

[Pop captions down]

**David:** BUT NOW THAT I'VE GOT  
A WONDERFUL NEW 24-INCH IMAC.

**Leo:** MMM.

**David:** I WANT TO SHARE THE  
DRIVE BETWEEN THE TWO.  
THE TROUBLE IS THAT IT'S  
FORMATTED IN NTFS.

**Leo:** YES.

**David:** I USE IT ON THE  
WINDOWS MACHINE FOR WINDOWS BACKUPS.  
BUT MORE IMPORTANT FOR BACKING  
UP CANON RAW IMAGES AND FUSE  
LIBRARIES AND STUFF LIKE THAT.

**Leo:** OKAY.

**David:** AND OS X WILL READ  
NTFS BUT IT WON'T --

**Leo:** AND IT WON'T WRITE IT.

**David:** -- TO IT.

**Leo:** YOU KNOW WHY IT WON'T WRITE IT?

[Both talking at once]

**Leo:** BECAUSE MICRO,

MICROSOFT HAS PATENTED NTFS AND  
IN ORDER TO USE TO USE --

[Both talking at once]

**David:** -- TO MICROSOFT.

[Pop captions up]

**Leo:** NTFS TO OFFER A  
COMPLETE IMPLEMENTATION OF IT  
THE NT FILE SYSTEM YOU HAVE TO  
LICENSE IT FROM MICROSOFT.  
AND I THINK APPLE SHOULD DO  
THAT BUT THEY HAVEN'T.

**David:** IT'S HARD TO BELIEVE.

**Leo:** SO THERE ARE TWO  
DIFFERENT WAYS TO DO THIS.  
THERE'S THE OPEN SOURCE FUSE  
LIBRARY, WHICH WORKS.

**David:** RIGHT.

[Pop captions down]

**Leo:** BUT IT'S SLOW AND  
THERE'S A COMMERCIAL SOLUTION  
THAT'S BEEN AROUND FOR A LONG  
TIME AND I THINK WORKS PRETTY  
WELL, PRETTY WELL, ITS CALLED  
PARAGON NTFS.

**David:** ALL RIGHT.

**Leo:** IT'S \$30.  
YOU CAN TRY BEFORE YOU BUY JUST  
TO SEE IF IT WORKS FOR YOU.

[Pop captions up]

**Leo:** AND IT THE REASON I  
HAVE HIGH HOPES FOR THIS IS  
PARAGON'S BEEN AROUND FOR A  
LONG TIME MAKING AN NTFS DRIVER

FOR LINUX.

[Pop captions down]

**Leo:** SO THEY HAVE A LOT OF  
EXPERIENCE READING AND WRITING  
TO NTFS.

GENERALLY IF YOU'RE GONNA MAKE  
A HARD DRIVE YOU WANT TO WORK  
WITH THE WINDOWS AND THE MAC  
IT'S BEST TO FORMAT AT FAT32.  
BUT THERE ARE REASONS TO USE NTFS.  
IT'S A MUCH BETTER FILE SYSTEM.  
SO THIS WILL ALLOW YOU TO DO THAT.  
IT CAN USE THE, THE XP VISTA  
FILE SYSTEM NTFS AND, AND SO  
KEEP IT ON THAT HARD DRIVE AND  
THEN JUST RUN THIS.  
IT'S BASICALLY A DRIVER.

**David:** OKAY.  
NOW WILL THAT EFFECT RUNNING PARALLELS?  
I'VE GOT PARALLELS WHICH I'VE  
NOT YET INSTALLED.

**Leo:** WELL --

**David:** BUT SINCE THAT USES A  
VERSION OF -- I WAS WORRIED  
THAT I MIGHT BE MESSING UP PARALLELS.

**Leo:** THAT'S A GREAT QUESTION.

**David:** SO I THOUGHT PERHAPS  
IT WOULD BE BETTER TO REFORMAT  
THE DRIVE AH IN --

**Leo:** NO, NO, NO.  
DON'T WORRY ABOUT THAT.

[Both talking at once]

**David:** IN --

**Leo:** BUT YOU, YOU MAY NOT  
NEED IT IF YOU'RE GONNA USE  
PARALLELS BECAUSE AS YOU SAID  
BOTH PARALLELS AND VMWARE KIND  
OF HANDLE THIS AUTOMATICALLY  
INTERNALLY AND THEY'LL, THEY'LL  
BOTH BE ABLE, YOU CAN COPY  
FILES FROM THE MAC TO PARALLELS  
AND VICE VERSA NO PROBLEM.

**David:** SO, SO PARAGON WON'T  
EFFECT THAT?

**Leo:** UM NO IT SHOULDN'T.  
BUT YOU MAY NOT EVEN NEED  
PARAGON IF YOU'RE GONNA GET PARALLELS.

**David:** YEAH EXCEPT THAT USES  
FUSE I BELIEVE.

**Leo:** THAT'S FINE.  
YEAH WELL I'M NOT SURE WHAT IT  
USES BUT BOTH PARALLELS AND  
VMWARE HANDLE NTFS VERY WELL.  
SO IN FACT YOU DON'T EVEN HAVE  
TO RUN, YOU DON'T EVEN HAVE TO  
LAUNCH WINDOWS TO BE ABLE TO  
READ AN NTFS DRIVE IF WITH AS  
LONG AS YOU'VE GOT PARALLELS GOING.  
SO YEAH MAYBE IT DOES USE FUSE.  
I DON'T KNOW.  
IT WOULD MAKE SENSE CAUSE THE  
FUSE LIBRARY IS OPEN SOURCE AND  
FREELY AVAILABLE SO.

**David:** MY OTHER THOUGHT WAS  
TO RUN WAS TO REFORMAT THE  
MACSTORE WITH MAC HF'S PLUS AND THEN --

**Leo:** THEN WINDOWS WON'T --

[Both talking at once]

**David:** GET THE -- MACHINE TO  
REVIEW TO READ THAT WITH MACDISK.  
WHAT DO YOU THINK ABOUT THAT IDEA?

**Leo:** WELL BUT WINDOWS HAS  
TROUBLE WITH THE MAC IT GOES  
THE OTHER WAY TOO.  
WINDOWS CAN'T READ THE  
MACINTOSH FILE SYSTEM.

[Laughs]

**Leo:** NOW THERE ARE PROGRAMS  
YOU CAN RUN ON WINDOWS TO READ  
MAC DRIVES.  
YOU KNOW THE BEST WAY IS TO USE  
FAT32 BECAUSE EVERYBODY CAN  
READ FAT32 AND THAT'S THE  
MAXIMUM COMPATIBILITY.  
I MEAN IF YOU'RE GONNA REFORMAT  
THAT DRIVE THAT'S WHAT I WOULD DO.

**David:** OKAY --

**Leo:** BUT I DON'T THINK  
YOU'LL HAVE ANY TROUBLE USING  
PARAGON AND PARALLELS.  
I DON'T THINK THAT THEY'LL  
CONFLICT AT ALL.

**David:** OKAY I'LL GIVE IT A GO.  
THANK YOU LEO.

**Leo:** THANK YOU.  
I APPRECIATE THE CALL.

[MUSIC]

**Leo:** TAKE CARE. BYE-BYE.

**David:** BYE.

**Leo:** ALL RIGHT NOW IT'S TIME  
TO TAKE A, A LITTLE WALK ON THE  
WILD SIDE.

OR SHOULD I SAY A WALK ON THE  
YEWELL SIDE?

**Ryan Yewell:** YES.

**Leo:** RYAN YEWELL'S GOT A JEWEL.

**Ryan Yewell:** I DO.

AND IT'S FOR WINDOWS AND ITS  
CALLED XPLORE2 LITE.

**Leo:** XPLORE2 LITE.

**Ryan Yewell:** XPLORE2 LITE.

[Pop captions up]

**Leo:** XPLORE OR 2 LITE.

SO WHAT DOES IT DO?

**Ryan Yewell:** IT HERE IT'S  
BASICALLY LIKE YOU CAN SEARCH  
FOR FILES.

IT'S LIKE A NEW WINDOW WHEN  
YOU, WHEN YOU WANT TO SEARCH  
YOUR COMPUTER HERE.

SO THIS IS LIKE --

**Leo:** IT'S AN EXPLORER.

**Ryan Yewell:** IT'S AN EXPLORER.

BUT IT HAS KIND OF --

**Leo:** IT'S LIGHT.

**Ryan Yewell:** LIKE IT'S PLUS RIGHT.

**Leo:** OH IT'S PLUS AND LIGHT?

**Ryan Yewell:** WELL IT'S PLUS --

**Leo:** MORE AND LESS.

[Pop captions down]

**Ryan Yewell:** XPLORE2, IT'S  
LIKE XPLORE2 LITE.

OKAY WE'RE GONNA GET INTO THIS NOW.

WE'VE, WE'VE DALLIED ENOUGH.

[Leo laughing]

**Ryan Yewell:** ESSENTIALLY YOU  
CAN DO BACK AND FORTH.  
YOU CAN DRAG AND DROP.  
SO I'VE GOT TWO WINDOWS OPEN HERE.  
SO I CAN TAKE THIS FILE, WHICH  
IS IN MY ONE FOLDER AND JUST  
DRAG IT OVER.  
SO THERE'S ALWAYS MULTIPLE  
WINDOWS OPEN.

**Leo:** I LIKE THAT.

**Ryan Yewell:** SO YOU CAN COPY  
THINGS LIKE THAT.

**Leo:** YEAH THAT'S HANDY.

**Ryan Yewell:** AND THE OTHER  
THING I LIKE IS YOU CAN SEE  
DOWN HERE THERE'S AN ACTUAL PREVIEW.

**Leo:** THEY DO A PREVIEW YEAH.

**Ryan Yewell:** AND IT EVEN  
PREVIEWS THINGS LIKE AVI --

**Leo:** OH LOOK.

**Ryan Yewell:** SO YOU CAN  
ACTUALLY DO LIKE LIVE PREVIEWS.

**Leo:** THAT'S A VERY GOOD  
VIDEO BY THE WAY, WATCH RYAN WORKING.

**Ryan Yewell:** AND THEN --

**Leo:** VERY FASCINATING.

**Ryan Yewell:** YOU CAN DO  
THINGS LIKE YOU CAN GO AND YOU  
CAN INSTANTLY HIT FIND, JUST BY  
HITTING THE FIND BUTTON.

YOU DON'T HAVE TO GO INTO THE,  
TO THE MENU AND IT'LL BRING UP  
THE FINDER.

**Leo:** OH THAT'S COOL.

**Ryan Yewell:** SO THERE YOU GO.  
YOU CAN GO INTO SYSTEM SETTINGS  
SO I DON'T --

**Leo:** NOW I ASSUME THEY HAVE  
AN XPLOERER2 PAYED VERSION.

**Ryan Yewell:** YEAH AND THAT'S  
WHY THIS ISN'T THERE'S A LITTLE  
CHIP HERE AND THAT'S THAT ONCE  
IN A WHILE YOU'RE GONNA GO AND  
YOU'RE GONNA SAY OH THIS IS ONLY IN --

**Leo:** RIGHT.

**Ryan Yewell:** THE IRREGULAR VERSION.

**Leo:** RIGHT.

**Ryan Yewell:** SO THAT'S NOT IDEAL.  
BUT BETWEEN THE PREVIEWS,  
BETWEEN THE MULTIPLE WINDOWS,  
BETWEEN THE ACCESS TO THINGS  
LIKE CONTROL PANEL INSTANTLY  
IT'S JUST A REALLY COOL  
EXPLORER FOR, FOR YOUR WINDOWS.

**Leo:** XPLOERER2 LITE.

**Ryan Yewell:** THAT'S WHAT IT IS.

**Leo:** IT'S FREE.

**Ryan Yewell:** IT'S ABSOLUTELY  
FREE CAUSE IT'S A YEWELL'S JEWEL.

**Leo:** AND WHERE DOES THOSE LIVE?

[Pop captions up]

[Blank for boards]

**Leo:** I THOUGHT THEY MIGHT.

**Ryan Yewell:** WE GOT THROUGH IT.  
IT WAS FOR A WHILE THERE IT  
MIGHT HAVE SEEMED LIKE WE --

[Both talking at once]

**Leo:** YOU SPANKED ME.  
GO AHEAD. GO AHEAD.  
YOU JUST SPANKED ME.

**Ryan Yewell:** NO, NO.

**Leo:** OKAY.

[Laughs]

**Ryan Yewell:** THERE'S NONE OF  
THAT ON THIS SHOW.  
THAT'S A DIFFERENT SHOW WE'LL  
DO LATER.

**Leo:** JUST WHAT EVERYBODY'S  
TUNING INTO SEE.  
A COUPLE OF BIG GUYS SPANKING  
EACH OTHER.  
WOULDN'T THAT BE FUN?

[Some laugh]

**Ryan Yewell:** NO.  
THIS IS, THIS IS NOT GOOD  
TELEVISION RIGHT NOW.

**Leo:** NOT GOOD TELEVISION RIGHT NOW?

**Ryan Yewell:** NO.

**Leo:** ALL RIGHT.  
HEY I'LL TELL YOU WHAT I'VE GOT  
SOME GOOD TELEVISION FOR YOU.  
COMING UP MORE OF YOUR CALLS.

[Laughs]

**Leo:** AND FRANK LINHARES IS  
GONNA BUILD A FLASHLIGHT CAUSE  
IT'S TOO EXPENSIVE TO BUY ONE APPARENTLY.

**Ryan Yewell:** THERE YOU GO.

**Leo:** AND NOW OUR QUIZ  
QUESTION OF THE DAY.  
BOY IT'S EXCITING I'LL TELL YOU.

[Blank for boards]

**Leo:** WHAT ARE YOU CRAZY?  
HMM, WHICH OF THOSE IS BEST?  
I DON'T KNOW.

THINK ABOUT IT.  
WE'LL TALK ABOUT IT WHEN "THE  
LAB" CONTINUES.

STAY HERE.

[MUSIC]

[Singing background]

[MUSIC]

[Pop captions down]

[Commercial break]

[MUSIC]

**Leo:** WELL NOW WE ARE DOING  
SOMETHING VERY EXCITING.  
SOMETHING WITH SMALL LITTLE  
TRACES AND LED LIGHTS.  
FRANK LINHARES IS HERE.  
HE IS FROM  
DIGITALUNDERGROUND.TV.  
THIS IS THE KIND OF THINGS THEY  
DO ON DIGITALUNDERGROUND.TV.  
OH SURE YOU COULD RUN TO THE  
STORE AND BUY A DOLLAR 50 FLASHLIGHT.

**Frank Linhares:** WHY WOULD  
YOU WANT TO DO THAT?

**Leo:** WHY WOULD YOU WANT TO  
DO THAT?

**Frank Linhares:** YEAH IT

ABSOLUTELY MAKES SENSE.

[Both talking at once]

**Leo:** WHEN YOU CAN MAKE A LED

FLASHLIGHT THAT FITS RIGHT ON

TOP OF A BATTERY.

WHAT A USEFUL THING THAT WOULD BE.

**Frank Linhares:** ABSOLUTELY.

**Leo:** SO WHAT ARE YOU DOING FIRST?

**Frank Linhares:** I AH I GOT

SIX AH THREE LEDS, THREE --

[Pop captions up]

**Leo:** THESE ARE KIND OF COOL.

**Frank Linhares:** 2.5 VOLT LEDS.

[Pop captions down]

**Leo:** AND LED STANDS FOR --

**Both:** LIGHT EMITTING DIODES.

**Frank Linhares:** SO CORRECT.

**Leo:** WHAT IT IS, IS IT'S A

WHAT IS A DIODE?

**Frank Linhares:** UM --

**Leo:** IT'S A THING.

**Frank Linhares:** IT'S A THING.

**Leo:** IT'S A KIND OF COMPONENT.

**Frank Linhares:** IT'S A KIND OF COMPONENT.

**Leo:** THAT LIGHTS WHEN YOU

PASS ELECTRICITY THROUGH IT.

BUT IT'S NOT A FILAMENT LIKE A,

LIKE A IT'S NOT A VACUUM TUBE.

**Frank Linhares:** NO.

WHAT A DIODE IS ACTUALLY

SUPPOSED TO DO IS ALLOW CURRENT

TO FLOW ONE WAY ONLY.

**Leo:** OKAY.

[Pop captions up]

**Frank Linhares:** THAT'S,  
THAT'S WHAT A DIODE IS ACTUALLY  
SUPPOSED TO DO.

**Leo:** BUT IT EMITS LIGHT  
APPARENTLY WHEN IT --

**Frank Linhares:** YEAH WELL THEY DO.  
IT'S, IT'S PASSING ELECTRICITY THROUGH IT.

**Leo:** OKAY.

**Frank Linhares:** SO THESE ARE  
THEY'RE ESSENTIALLY LITTLE  
LIGHTBULBS IS WHAT THEY ARE.

[Pop captions down]

**Leo:** NOW THIS IS THERE'S  
BEEN HUGE ADVANCES IN LED TECHNOLOGY.  
THEY USED TO BE JUST LITTLE RED DOTS.

**Frank Linhares:** THEY USED TO  
BE LITTLE RED DOTS AND --

[Both talking at once]

**Leo:** NOW THEY HAVE ALL  
COLOURS AND CLEAR WAS A TOUGH ONE.

**Frank Linhares:** THEY'RE NOT  
AH IT WAS A TOUGH ONE AND IT  
REQUIRES MUCH MORE POWER.  
GENERALLY MOST LEDS ARE 1.4 TO  
1.5 VOLTS WHERE THESE THINGS  
ARE ACTUALLY 2 AND CHANGE.

**Leo:** THAT'S WHY YOU USE A 9-  
VOLT BATTERY FOR THAT RIGHT?

**Frank Linhares:** THAT'S RIGHT.  
SO WHAT I'M DOING IS I'M --

[Both talking at once]

**Leo:** NOW WHAT ARE YOU DOING?

YOU'RE BENDING THE LEAVES.

**Frank Linhares:** I'M ACTUALLY

I'M BENDING, I BEND THE LEAVES

CAUSE WHAT I'M GONNA DO IS I'M

GONNA SAULDER THESE THINGS

TOGETHER IN PARALLEL.

**Leo:** NOW THIS IS KIND OF

LIKE THE KIND OF CLAMP THAT

FLYFISHERMEN USE.

**Frank Linhares:** A THIRD HAND

AS THEY'RE REFERRED TO.

**Leo:** A THIRD HAND.

**Frank Linhares:** THAT'S RIGHT.

IT'S A THIRD HAND.

**Leo:** I COULD GIVE YOU A HAND.

**Frank Linhares:** YOU COULD.

DO YOU WANT ME TO PUT THE

SAULDERING IRON ANYWHERE NEAR

YOUR HAND?

**Leo:** NO, NO.

**Frank Linhares:** I CAN IF YOU WANT ME TO.

**Leo:** OKAY.

SO NOW WE CAN'T REALLY SEE WHAT

YOU'RE DOING.

CAN YOU DO THAT BACKWARDS?

**Frank Linhares:** YEAH ABSOLUTELY.

SO WHAT I'M DOING IS I'M GONNA,

I'M GONNA --

**Leo:** SO HE'S TAKEN 2 LEDS AS

YOU CAN SEE.

**Frank Linhares:** THAT'S RIGHT.

**Leo:** AND HE'S, HE'S MASHED

HE'S BENT THE, BENT THE LEAVES  
AND MASHED THE TWO UP THERE.

**Frank Linhares:** NOW IT IS  
VERY IMPORTANT YOU'LL SEE THAT  
ONE OF THESE IS A LOT SHORTER  
THAN THE OTHER.

**Leo:** YEAH.

**Frank Linhares:** BECAUSE  
THERE IS, THERE IS POLARITY  
COUNTS ON THESE BIG TIME.

**Leo:** OH SO YOU HAD TO KEEP  
TRACK OF THAT?

**Frank Linhares:** I KEEP TRACK OF IT.  
ACTUALLY IT YOU WOULD NEVER SEE  
IT ON CAMERA BUT ONE OF THESE  
EDGES ARE ACTUALLY FLAT.  
YOU CAN FEEL IT.

**Leo:** OH OKAY.

**Frank Linhares:** YOU CAN SEE  
IT'S FLAT SORT OF ON THE PLASTIC.

[Both talking at once]

**Leo:** SO THE, THE PLASTIC  
PART IS FLAT WHERE IS THAT THE  
PLUS OR THE MINUS?

**Frank Linhares:** THAT IS THE  
NEGATIVE CONNECTOR.

**Leo:** THAT'S THE NEGATIVE.

**Frank Linhares:** THAT'S RIGHT.

**Leo:** OKAY.

SO NOW YOU'RE PUTTING A LITTLE SAULDER.  
ANY TIPS FOR THE GANG ON SAULDERING?

**Frank Linhares:** AH PRACTICE, PRACTICE, PRACTICE.

**Leo:** OKAY.

**Frank Linhares:** DON'T BE AFRAID TO --

**Leo:** NEVER GRIP, GRIP THE  
TIP WITH YOUR HAND.

**Frank Linhares:** DON'T EVER  
GRIP THE TIP WITH YOUR HAND.

**Leo:** IT'S VERY HOT AND  
YOU'RE JUST USING COLD CORE  
WHAT KIND OF --

[Both talking at once]

**Frank Linhares:** LEAD FREE.

**Leo:** LEAD FREE.

**Frank Linhares:** RESIN CORE SAULDER.

**Leo:** RESIN CORE SAULDER.

**Frank Linhares:** THIS IS  
GONNA BE A, A QUICK AND --

[Both talking at once]

**Leo:** NOW WHAT IS THIS?

**Frank Linhares:** -- JOB.

**Leo:** IT'S BASICALLY IT'S A  
METAL THAT YOU CAN MELT AT A  
FAIRLY LOW TEMPERATURE.

**Frank Linhares:** AT AND --

**Leo:** AND THEN IT COOLS AND  
HARDENS AND MAKES IT CONDUCT IT.

**Frank Linhares:** THAT IS CORRECT.

**Leo:** ALL RIGHT.

SO, SO --

**Frank Linhares:** SO I --

[Both talking at once]

**Leo:** YOU'VE ESSENTIALLY  
CONNECTED THESE NOW WITH SOME METAL.

**Frank Linhares:** THAT'S RIGHT  
AND WHAT I'M GONNA DO IS --

**Leo:** HE MELTED THE METAL.

ARE YOU GONNA DO ANOTHER ONE?

**Frank Linhares:** THIS ONE,

I'M GONNA DO THE LAST ONE.

**Leo:** THIS IS GONNA BE A 3 LED ARRAY.

**Frank Linhares:** THIS IS THE LAST ONE.

THAT'S RIGHT AND THE REASON

IT'S 3 IS BECAUSE THESE THINGS

ARE 2 AND A HALF LIKE I SAID 2

AND A HALF VOLTS EACH AND WE --

**Leo:** I FEEL LIKE I'M DOING

COLOUR COMMENTARY FOR SOME SORT

OF BIZARRE OLYMPIC EVENT.

**Frank Linhares:** WE NEED TO --

**Leo:** AND NOW HE'S CLIPPING THE 3RD LED.

CAN HE ATTACH IT?

I DON'T KNOW JIM.

IT'S NEVER BEEN DONE BEFORE.

A 3 LED TRIFACTOR.

**Frank Linhares:** THAT'S RIGHT.

HERE COMES THE --

**Leo:** HE'S GOT THE THIRD HAND IN THERE.

**Frank Linhares:** HERE COMES THE TRIFACTOR.

**Leo:** HE'S JOINING THEM TOGETHER.

THIS IS IT.

**Frank Linhares:** HERE IT COMES.

**Leo:** HERE COMES THE SAULDER.

**Frank Linhares:** HERE IT IS.

SO WE'RE GONNA --

[Both talking at once]

**Leo:** AND NOW HE'S GONNA --

**Frank Linhares:** JOIN THIS UP A LITTLE BIT.

**Leo:** WELL NOW THIS IS

INTERESTING.

NOW I'VE NOTICED GOOD

SAULDERERS DO THIS.

THEY DON'T HEAT THE SAULDER.

**Frank Linhares:** NEVER EVER.

**Leo:** YOU NEVER TOUCH THE SAULDER.

**Frank Linhares:** YOU SHOULD

NEVER HEAT THE SAULDER.

**Leo:** YOU HEAT THE THING

YOU'RE CONNECTING IT TO.

**Frank Linhares:** THAT'S RIGHT.

THAT'S RIGHT.

**Leo:** SO YOU TOUCH THE

SAULDER TO THE HOT WIRE THAT

YOU HEAT IT WITH --

**Frank Linhares:** AH AND IT DIDN'T WORK.

**Leo:** OKAY.

**Frank Linhares:** SO WE'LL DO THAT ONE MORE.

**Leo:** AND THAT'S EXACTLY WHAT

NOT TO DO.

**Frank Linhares:** THAT'S RIGHT.

THIS IS --

**Leo:** NOW HE'S GONNA SHOW YOU

WHAT TO DO.

**Frank Linhares:** YOU ACTUALLY

WHAT YOU WANT TO DO IS YOU WANT

TO HEAT THE ENDS FIRST.

ACTUALLY THE PROPER WAY IS TO

TIN THEM.

YOU SHOULD HAVE I SHOULD HAVE

ADDED SAULDER TO EACH ONE FIRST

AND THEN HEATED EM, HEATED --

[Both talking at once]

**Leo:** WELL WE'RE DOING THE  
QUICK AND DIRTY WAY.

**Frank Linhares:** WE'RE DOING THE --

**Leo:** CAUSE WE'RE DOING THIS LIVE.

**Frank Linhares:** THE DON'T DO THIS AT HOME.

**Leo:** SO YOU'RE TOUCHING THE,  
TOUCHING THE LEAVES, HEATING EM UP.

**Frank Linhares:** THAT'S  
RIGHT, LETTING EM --

[Both talking at once]

**Leo:** YOU PUT A LITTLE  
SAULDER ON EM.  
NOW YOU'RE GONNA LET IT COOL  
AND THAT'S GONNA GIVE YOU A CONNECTION.

**Frank Linhares:** THAT'S RIGHT AND AGAIN --

**Leo:** IT BROKE AGAIN.

**Frank Linhares:** AHH, BUT NOT --

[Both talking at once]

**Leo:** MORE, MORE SAULDER!

**Frank Linhares:** THAT'S RIGHT.  
NOT ENOUGH SAULDER I GUESS.

**Leo:** UM NOW WHAT'S A I'VE  
HEARD SOME PEOPLE TALK ABOUT A  
COLD SAULDER.

**Frank Linhares:** UM --

**Leo:** IS THAT A SAULDER THAT  
DOESN'T WORK AFTER IT HEATS UP?

**Frank Linhares:** AH --

**Leo:** I BELIEVE THAT IS WHAT THAT IS.

**Frank Linhares:** I'VE NEVER  
USED A COLD SAULDER SYSTEM.  
I BELIEVE THAT'S WHAT IT AS WELL.

**Leo:** OKAY.

BUT THAT'S SOMETHING YOU DON'T WANT.

SO THIS IS A GOOD --

**Frank Linhares:** NO NOT FOR THIS.

**Leo:** OKAY.

**Frank Linhares:** YOU WANT --

**Leo:** OKAY.

**Frank Linhares:** THERE WE GO.

SO NOW WE'RE GOOD.

**Leo:** SO NOW WE GOT IT.

**Frank Linhares:** SO NOW IT'S

NOT AS CLEAN AS I'D LIKE IT.

BUT WHAT I'M GONNA DO IS --

[Both talking at once]

**Leo:** DOES IT MATTER?

BECAUSE THIS IS --

**Frank Linhares:** LAST BEND I'M GONNA DO.

**Leo:** OKAY NOW YOU'RE BENDING

THE LAST ENDS UP.

**Frank Linhares:** RIGHT.

NOW I'VE, I'VE WIRED THESE IN SERIES.

**Leo:** OKAY.

**Frank Linhares:** AND AGAIN

IT'S VERY HARD TO SEE.

BUT THE ALL THE ENDS MATCH.

**Leo:** SO YOU DO THE PLUS, PLUS, PLUS --

[Both talking at once]

**Frank Linhares:** PLUS, PLUS

TO THE NEGATIVE, PLUS TO THE

NEGATIVE.

**Leo:** NEGATIVE GOT IT.

[Both talking at once]

**Leo:** IT'S JUST A LITTLE

DAISYCHAIN, OKAY.

**Frank Linhares:** THE LAST  
THING WE'RE GONNA DO IS WE'RE  
GONNA RIP APART A 9-VOLT BATTERY.

**Leo:** THIS WE DO NOT  
RECOMMEND AT HOME.

**Frank Linhares:** WELL  
ACTUALLY YOU KNOW WHAT?  
IT'S NOT AS DANGEROUS AS PEOPLE  
BELIEVE CAUSE INSIDE A 9-VOLT  
BATTERY IS NOTHING BUT 6  
TRIPLE-A BATTERIES.

**Leo:** SMALLER BATTERIES.  
YOU'RE KIDDING?

**Frank Linhares:** THAT'S WHAT  
THEY ARE RIGHT THERE.

**Leo:** THAT'S ALL A 9-VOLT IS --

**Frank Linhares:** THAT'S --

**Leo:** 6 TRIPLE-A BATTERIES?

**Frank Linhares:** THAT'S  
EXACTLY WHAT IT IS.  
THE REASON WE WANT TO RIP THIS  
APART --

**Leo:** SO THE NEXT TIME I NEED  
A TRIPLE-A BATTERY I JUST TAKE  
APART A 9-VOLT?

**Frank Linhares:** ABSOLUTELY.

**Leo:** IS THAT TRUE?

**Frank Linhares:** THAT'S 100% TRUE.  
IT CAME RIGHT OUT OF HERE.  
IT CAME RIGHT OUT OF HERE.

**Leo:** WOW.

**Frank Linhares:** AND THE  
REASON I RIPPED THIS APART --

**Leo:** I ALWAYS NEED TRIPLE-A  
BATTERIES AND I GOT LOTS OF THESE.

**Frank Linhares:** THAT'S RIGHT.  
AND I RIPPED IT APART CAUSE I  
ACTUALLY WANT, I WANT THE TERMINAL.  
THAT'S ALL I WANT.

**Leo:** OH OKAY WE'RE GONNA  
DISCARD THIS?

**Frank Linhares:** WE'RE GONNA DISCARD THAT.

**Leo:** OKAY.

**Frank Linhares:** ALL I WANT  
IS THE TERMINAL AND WHAT I WANT IS THE --

**Leo:** THIS IS THE TOP PART ON HERE.  
THAT'S RIGHT.

NOW WHICH IS PLUS AND WHICH IS  
MINUS ON THIS?

**Frank Linhares:** NOW YOU  
ACTUALLY HAVE TO DO THIS  
REVERSE BECAUSE ON, ON THE  
ACTUAL BATTERY THE SMALL  
ROUNDER, ROUNDER END --

**Leo:** YEAH.

**Frank Linhares:** ROUND END IS  
POSITIVE AND THE BIGGER CLAW  
END IS NEGATIVE.

**Leo:** OKAY.

**Frank Linhares:** SO WE'RE  
GONNA REVERSE IT HERE BECAUSE  
THAT'S THE WAY --

**Leo:** YOU WANT TO PLUG IT IN.

**Frank Linhares:** THAT'S THE  
WAY IT CONNECTS RIGHT.

**Leo:** OKAY.

**Frank Linhares:** SO THE BIG  
CLAW END WILL BE POSITIVE.

**Leo:** THAT'S SOMETHING TO  
REMEMBER THAT NOW.

**Frank Linhares:** THAT'S RIGHT.

**Leo:** YOUR BIG CLAW END IS POSITIVE.

**Frank Linhares:** WHICH ON THE  
LEDS IS WHATEVER END --

[Both talking at once]

**Leo:** THAT WAS A FOLK SONG.

[Pop captions up]

**Frank Linhares:** IS NOT --

**Leo:** DIDN'T BURL IVES SING?  
"THE BIG CLAW END IS POSITIVE"  
OKAY SO WE'RE GONNA NOW --

**Frank Linhares:** NOW TAKE THIS.

[Pop captions down]

**Leo:** THE THIRD HAND IS VERY USEFUL.

**Frank Linhares:** MANIPULATE  
MY THIRD HAND IF IT WANTS TO MOVE.

**Leo:** NOBODY CAN SEE WHAT  
YOU'RE DOING OF COURSE CAUSE  
THE, THE THIRD HAND IS IN THE  
WAY BUT I, I DON'T WANT TO MESS  
YOU UP.

**Frank Linhares:** I'M JUST  
GONNA MANIPULATE THIS.

**Leo:** NOW YOUR ARM'S IN THE WAY.  
THAT'S THE FOURTH HAND.

**Frank Linhares:** THERE WE GO.

**Leo:** OKAY.

**Frank Linhares:** THIS IS,  
THIS IS NOT GONNA WORK AS WELL

AS I THOUGHT IT WAS BUT --

[Both talking at once]

**Leo:** SO YOU'RE BASICALLY --

**Frank Linhares:** YOU'RE

GONNA, YOU'RE GONNA SAULDER

THIS IS ON IS WHAT YOU'RE GONNA DO.

**Leo:** ATTACH THOSE LEDS THAT

YOU MADE TO THE DETACHED CONNECTOR.

**Frank Linhares:** THAT IS CORRECT.

WHAT YOU WILL END UP DOING IS ONCE ITS --

[Both talking at once]

**Leo:** AND WHAT YOU'RE GONNA GET IS THIS.

**Frank Linhares:** THAT.

**Leo:** SO WE'RE, SO THIS, SO

THIS GETS ATTACHED TO THIS IS,

THIS IS THE 9-VOLT THE TOP OF

THE 9-VOLT BATTERY.

BUT IT'S REVERSED SO THAT THE

CLAW END IS POSITIVE SO THAT WE

CAN THEN JUST HERE WHERE WE GOING?

THERE OKAY.

**Frank Linhares:** SO THEN I'M

JUST WE CAN ATTACH THAT.

**Leo:** WHAT ARE YOU DOING?

WHAT ARE YOU DOING?

**Frank Linhares:** OH I WAS

TRYING TO LOOSEN IT UP.

BUT NEVERTHELESS --

**Leo:** OH OKAY.

**Frank Linhares:** SO YOU'RE

GONNA GET THAT IS WHAT YOU'RE

GONNA GET.

**Leo:** AND CAN WE, SHALL WE

SHOW THAT?

**Frank Linhares:** ABSOLUTELY PLUG IT IN.

**Leo:** SO NOW, SO NOW THIS IS  
A TOP THAT IS, IS IT PRETTY ROBUST?  
I MEAN HOW, HOW STRONG IS THAT?

**Frank Linhares:** IT'S AH  
REMOVING IT YOU HAVE TO BE CAREFUL.  
NOT SO MUCH SNAPPING IT ON.

**Leo:** SO LOOK AT THAT.

LOOK AT THAT.

THIS IS THE TOP.

I'LL JUST SNAP IT INTO A  
BATTERY AND I'VE ACTUALLY MADE  
A LITTLE MINI THING THAT I CAN  
ATTACH DIRECTLY --

**Frank Linhares:** LIKE A LITTLE TORCH.

**Leo:** A LITTLE TORCH I CAN  
ATTACH DIRECTLY TO A 9-VOLT BATTERY.

**Frank Linhares:** THAT'S RIGHT.

**Leo:** THAT'S PRETTY COOL.

**Frank Linhares:** NOW YOU CAN  
GET 300 HOURS OUT OF THIS.

**Leo:** 300 HOURS OUT OF ONE BATTERY?

**Frank Linhares:** OUT OF ONE BATTERY.  
YOU'LL GET ABOUT 300 HOURS OF  
POWER OUT OF ONE BATTERY.

**Leo:** THAT'S, THAT'S GREAT.

**Frank Linhares:** AND IF YOU  
GO, IF YOU GO CAMPING LIKE,  
LIKE I PUT ONE OF THESE IN MY  
KIDS TENT CAUSE THEY, THEY  
DON'T WANT TO BE IN THE DARK.  
AND YOU JUST KIND OF SIT IT IN

THE TENT.

THERE'S NO HEAT.

LEDS GENERATE ABSOLUTELY NO HEAT.

**Leo:** SO WHEN YOU GET TO THE  
WOODS YOU SIT DOWN WITH YOUR  
SAULDERING IRON AND --

[Both talking at once]

**Frank Linhares:** NO, NO, NO I  
BRING THEM PREMADE.

**Leo:** A FEW LEDS AND YOU POP  
EM ONE TOGETHER THERE?

**Frank Linhares:** PREMADE.  
YOU KNOW IT COMES PREMADE.

**Leo:** DAD CAN MAKE ONE OF  
THOSE IN A DAY.

**Frank Linhares:** IT'S ABSOLUTELY PREMADE.

[MUSIC]

**Leo:** AND THE PARTS COST?

**Frank Linhares:** 90 CENTS IF THAT.

**Leo:** IT PAYS.

**Frank Linhares:** YEAH.

**Leo:** IT PAYS.

THE BATTERY'S MORE EXPENSIVE.

**Frank Linhares:** THE  
BATTERY'S MORE EXPENSIVE THEN  
ANYTHING ELSE.

BUT IT WILL LAST A GOOD 300 HOURS.

**Leo:** ALL RIGHT LET'S LEAVE IT HERE.

**Frank Linhares:** WE'LL LEAVE IT HERE.

**Leo:** AND TOMORROW WE'LL SEE  
IF IT'S STILL BURNING.

**Frank Linhares:** ABSOLUTELY.

**Leo:** AND THE DAY AFTER THAT

WE'LL SEE IF IT'S STILL BURNING.

**Frank Linhares:** OKAY.

**Leo:** AND TWO WEEKS LATER  
FINALLY IT WILL HAVE BURNED OUT.

**Frank Linhares:** IT WILL, IT WILL BURN OUT.

**Leo:** FRANK LINHARES NEVER  
BURNS OUT.

HE'S LIKE THE ENERGIZER BUNNY  
OF VIDEO PODCASTERS.

**Frank Linhares:** KEEP GOING  
AND GOING AND GOING.

[Pop captions up]

[Blank for boards]

**Leo:** IS THE PLACE TO GO TO  
SEE HIM AND WE'LL FINISH THIS  
ONE UP --

**Frank Linhares:** YEAH.

**Leo:** BEHIND THE SCENES AND  
THEN WE'LL GIVE IT TO KATE AS  
A, AS A CHRISTMAS PRESENT.  
CHUCK D WANTS IT.  
OKAY CHUCK'S GONNA GET IT AS A PRESENT.

**Frank Linhares:** CHUCK IS --

**Leo:** ALL RIGHT WE'RE GONNA  
TAKE A BREAK.  
COME BACK WITH MORE OF YOUR  
CALLS IN JUST A BIT.  
STAY HERE.

"THE LAB WITH LEO" CONTINUES.

YOU DID IT.

YOU DID IT ON LIVE ON TV.

**Frank Linhares:** YEAH.

**Leo:** THAT WENT VERY GOOD.

**Frank Linhares:** YEAH.

**Leo:** CONGRATULATIONS. YOU'RE GOOD.

[MUSIC]

3, 2, 1.

[Pop captions down]

[MUSIC]

[Commercial break]

[MUSIC]

**Kate:** HEY WELCOME BACK TO

"THE LAB WITH LEO".

I'M KATE ABRAHAM AND NOW ITS

TIME FOR MY TIP OF THE DAY.

NOW I'M A HUGE FAN OF PHOTO BLOGS.

BUT THIS ONE IS SPECIAL BEYOND SPECIAL.

ITS CALLED 365 PORTRAITS AND

WHAT IT IS, IS THE PHOTOGRAPHER

HAS GONE THROUGH 2007 TAKEN A

PORTRAIT EVERY DAY OF SOMEBODY

DIFFERENT, POST IT ON THE SITE

AND IT'S BASICALLY YOU CAN THEN

MAKE COMMENTS ON IT, SUCH A

GORGEOUS SITE.

[Pop captions up]

**Kate:** SO THE PHOTOGRAPHER IS

CALLED BILL WADMAN AND WHAT

HE'S DONE IS GONE THROUGH EVERY

DAY OF THE YEAR AND TAKEN

PHOTOS OF PEOPLE HE MEETS, JUST

RANDOM STRANGERS IN NEW YORK AND --

[Pop captions down]

**Leo:** GREAT WHEELS OF CHEESE

RIGHT THERE.

**Kate:** YEAH AND THE GREAT

THING IS THESE PICTURES ARE  
FANTASTIC TO LOOK AT AND THE  
COOL THING IS AS WELL IS THAT  
NOW WE'RE ACTUALLY TOWARDS THE  
END OF THE YEAR THERE ARE MORE  
TO LOOK AT.

**Leo:** THERE'S 365 OF THEM.

**Kate:** ABSOLUTELY.

**Leo:** SO YOU MUST BE A  
PHOTOGRAPHER CAUSE YOU LIKE  
PHOTO SITES A LOT.

**Kate:** DO YOU KNOW I  
ABSOLUTELY ADORE PHOTO SITES  
BUT I CAN'T TAKE A DECENT  
PICTURE TO SAVE MY LIFE.

**Leo:** WHY NOT?

**Kate:** I'M ONE OF THE GIRLS  
WHO PUTS THEIR THUMB IN THE  
SCREEN EVERY, EVERY TIME.  
HONESTLY I, I THINK I'VE GOT A  
KEEN EYE FOR IT.  
BUT THE ACTUAL EXECUTION OF IT  
I'M NOT VERY GOOD WITH.

**Leo:** I, IF YOU CAN SEE GREAT  
THEN YOU SHOULD BE ABLE TO TAKE A PICTURE.  
WE'RE GONNA WORK ON YOU.

**Kate:** WE'RE GONNA HAVE TO.

[Laughs]

**Leo:** WE CAN TURN YOU INTO A  
GREAT PHOTOGRAPHER CAUSE THAT'S  
THE NEAT THING ABOUT DIGITAL PHOTOGRAPHY.

**Kate:** MMM-HMM.

**Leo:** IF YOU'VE GOT THE EYE

THE TECHNOLOGY'S THERE TO MAKE  
IT POSSIBLE FOR YOU.

**Kate:** YEAH I JUST --

**Leo:** LET'S DEVELOP THAT.

**Kate:** OKAY THEN.

**Leo:** I THINK WE SHOULD.

THIS IS OUR NEW PROJECT.

TURN KATE INTO A PRO  
PHOTOGRAPHER RIGHT?

YEAH.

**Kate:** WE'LL GIVE IT A GO.

**Leo:** EVEN THE CAMERA GUYS  
ARE GOING YEAH.

**Kate:** YEAH MMM-HMM.

**Leo:** YEAH.

ALL RIGHT LET'S GET ANOTHER  
BEFORE WE DO THAT PROJECT --

**Kate:** YES.

**Leo:** LET'S ANSWER A QUESTION.

**Kate:** FANTASTIC.

WE ARE GOING TO THE KITCHENER  
WATERLOO AREA OF ONTARIO --

**Leo:** YES.

**Kate:** AND WE HAVE RAY ON THE LINE.

**Leo:** WHICH IS IT KITCHENER  
OR WATERLOO?

**Kate:** APPARENTLY HE PREFERS  
KITCHENER-WATERLOO.

**Leo:** RIGHT ON THE, RIGHT ON  
THE LINE THERE.

**Kate:** HE'S RIGHT IN THE MIDDLE.

**Leo:** RIGHT IN THE, RIGHT  
SMACK DAB IN BETWEEN KITCHENER

AND WATERLOO.

HELLO RAY.

[Pop captions up]

**Ray:** HI THERE.

**Leo:** HOW ARE YOU TODAY?

**Ray:** I'M DOING VERY WELL THANKS LEO.

**Leo:** WHAT CAN I DO FOR YOU?

**Ray:** WELL I'VE GOT A  
QUESTION CONCERNING THE  
VOICEOVER IP QUALITY.

UM I ACTUALLY SUBSCRIBE TO A  
PROVIDER HERE AND I'M FINDING  
THAT THE QUALITY ISN'T WHAT IT,  
IT'S NOT MEETING MY, MY, MY  
STANDARDS BASICALLY.

**Leo:** YOU HAD HOPED IT WOULD  
BE AS GOOD AS A PHONE.

**Ray:** THAT'S RIGHT.

**Leo:** YEAH.

**Ray:** WELL I, I MEAN I HAVE A  
BIT OF EXPERIENCE AND I'VE,  
I'VE DID A BIT OF HOMEWORK ON  
IT BEFORE I --

[Pop captions down]

**Leo:** COOL.

WHO ARE YOU USING JUST OUT OF  
CURIOSITY?

**Ray:** AH PRIMUS.

**Leo:** OKAY.

UM WHAT, WHAT, WHAT KIND OF  
EFFECTS ARE YOU GETTING?

**Ray:** WELL AT THE MOMENT  
WE'RE SEEING A LOT OF STATIC OR

I GUESS CLICKING ON THE LINE.

[Pop captions up]

**Leo:** HMM.

**Ray:** AND OFTEN WE'LL GET  
DROPPED CALLS UM PERIODICALLY.  
MORESO WHEN THERE'S ANY KIND OF  
SIGNIFICANT BANDWIDTH UTILIZATION.

**Leo:** YEAH.

ARE WE USING IT RIGHT NOW?

[Pop captions down]

**Leo:** OR IS THAT HOW YOU'RE  
TALKING TO ME?

**Ray:** NO I'M ACTUALLY ON MY,  
MY BLACKBERRY RIGHT NOW.

**Leo:** YOU'RE, YOU'RE ON A CELL PHONE.

**Ray:** THAT'S RIGHT.

**Leo:** IT SOUNDS GOOD.

**Ray:** YEAH.

[Laughs]

**Leo:** YEAH I MEAN I HAVE TO  
SAY I THINK VOIP, VOICEOVER  
INTERNET HAS BEEN A LITTLE  
DISAPPOINTING FOR A LOT OF PEOPLE.  
ONE EXPECTS A BETTER RESULT.  
AND IF YOU'VE USED SKYPE FOR  
INSTANCE WHICH IS COMPUTER TO  
COMPUTER YOU MIGHT SAY BOY THIS  
SOUNDS REALLY GOOD.  
WHY CAN'T A VOICEOVER IN THAT  
PHONE SOUND AS GOOD?  
UM BUT YOU HIT THE NAIL ON THE HEAD.  
IT DEPENDS ON WHAT THE INTERNET  
CONNECTION IS LIKE.

AND SOMETIMES THE INTERNET  
CONNECTION IS BAD.

AND, AND INTERNET THE INTERNET  
THE WAY ITS DESIGNED IT HAS NO  
WAY OF PRIORITIZING THE  
IMPORTANT STUFF.

YOU KNOW THERE'S SOME THINGS  
EMAIL CAN TAKE A LITTLE WHILE RIGHT?  
IT CAN TAKE A SECOND INSTEAD OF  
HALF A SECOND TO GET TO YOU.

**Ray:** MMM-HMM.

**Leo:** IT CAN EVEN ARRIVE IN  
OUT OF ORDER AND BE REASSEMBLED.  
BUT VIDEO, VOICE, AUDIO THOSE  
HAVE TO ARRIVE ESPECIALLY IF  
YOU'RE HAVING A CONVERSATION  
PRETTY MUCH IN REAL TIME IN ORDER.  
IF A PACKET'S MISSING YOU DON'T  
HAVE YOU CAN'T KIND OF WAIT  
AROUND TILL IT SHOWS UP.  
YOU JUST HAVE TO DROP IT OUT.  
THOSE ARE THOSE CLICKS, POPS,  
BUBBLINGS SOMETIMES IT EVEN  
SOUNDS LIKE THIS.

AND THAT'S BECAUSE PACKETS ARE  
BEING DROPPED OUT OF IT.

UM SOMETIMES YOU'LL HEAR  
ARTIFACTING FROM OVER COMPRESSION.  
YOU KNOW IT SOUNDS VERY TINNY  
OR HARSH OR MAYBE THERE'S KIND  
OF AN ECHOEY SOUND TO IT.

ALL OF THOSE ARE VERY TYPICAL  
OF INTERNET PROBLEMS AND THE,

THE VOICEOVER INTERNET DOES THE  
BEST IT CAN.

IT MAY BE THAT PRIMUS ISN'T THE  
BEST SERVICE.

I DON'T KNOW.

UM NOW THERE A COUPLE OF THINGS  
YOU CAN TRY.

FIRST OF ALL I WOULD FOLLOW  
THEIR RECOMMENDATIONS ABOUT HOW  
TO, DO YOU HAVE A, DOES IT COME  
WITH A, A VOICE ADAPTOR?

IS THAT HOW IT WORKS?

**Ray:** YES IT DOES.

**Leo:** OKAY.

**Ray:** YEAH I'VE GOT A, A  
LINUX ADAPTOR.

**Leo:** OH IT'S BUILT INTO THE ROUTER?

[Pop captions up]

**Ray:** YEAH IT'S AND JUST AS  
FAR AS THE SETUP GOES I'VE  
TRIED THE, THE VOICE DEVICE  
BEFORE AND AFTER MY HOME ROUTER  
AND I'VE NOTICED NO DIFFERENCE.

**Leo:** NO DIFFERENCE?

[Pop captions down]

**Leo:** YEAH IT DEPENDS.  
BUT SOME OF THE PROVIDERS  
SUGGEST THAT YOU CONNECT IT  
DIRECTLY TO THE INTERNET AND  
THEN PUT YOUR ROUTER ON THE  
OTHER SIDE OF THE VOICE ADAPTOR.  
SOME SAY THE OTHER WAY AROUND.  
THE ADVANTAGE OF HAVING THE

VOICE ADAPTOR CLOSEST TO THE  
INTERNET IS IT CAN TRY TO DO  
SOME QUALITY OF SIGNAL, QUALITY  
OF SERVICE STUFF TO AVOID THESE PROBLEMS.

AND SO IT'S POSSIBLE THAT IT  
COULD BE BETTER.

BUT I WOULD FOLLOW THE  
RECOMMENDATIONS THAT YOUR  
VOICEOVER INTERNET PROVIDER  
GIVES YOU.

SOME OF THEM DO, DO A BETTER  
JOB THAN OTHERS.

MOST OF THEM THOUGH SUFFER FROM  
THESE PROBLEMS FROM TIME TO TIME.

NONE OF THEM SOUNDS PERFECT UM  
AND IT'S JUST THE NATURE OF THE  
INTERNET I THINK.

HOW IS YOUR INTERNET CONNECTION?  
IS IT PRETTY GOOD?

**Ray:** ITS, ITS PRETTY GOOD.

I'VE GOT A PRETTY GOOD PROVIDER.

I WENT TO THE, WENT TO UP TO 5  
EVEN TO LIKE THE ULTIMATE  
EXTREME PACKAGE PAYING YOU KNOW  
NEAR \$100 A MONTH.

**Leo:** OH WOW.

**Ray:** AND I WAS STILL FINDING  
JUST AS A TEST TRIAL JUST TO  
SEE IF IT WAS THE INTERNET.

**Leo:** RIGHT.

**Ray:** YOU KNOW MY UPSTREAM UM  
YOU KNOW UP, UP AND DOWN  
BANDWIDTH IS, IS ACCORDING TO

THEIR STANDARDS TO MY, MY  
PROVIDER THEY SAY IT'S FINE.  
SO I'M KIND OF --

[Both talking at once]

**Leo:** WHAT IS YOUR UPSTREAM  
ON YOUR INTERNET ACCESS?

**Ray:** AH GEEZ UM --

**Leo:** IT'S MORE THAN 128  
KILOBITS PROBABLY.

**Ray:** YES, YES IT IS, YEAH.

**Leo:** YEAH THE MORE YOU HAVE  
THE BETTER FOR VOIP.

**Ray:** MMM-HMM.

**Leo:** UM HAVE YOU TRIED  
THINGS LIKE SKYPE?

**Ray:** NO I HAVEN'T.

**Leo:** I WOULD TRY SKYPE AND  
JUST COMPARE IT.  
SKYPE IS FREE.

AH IT'S USUALLY COMPUTER TO  
COMPUTER, ALTHOUGH THEY HAVE  
COMPUTER TO PHONE.

THEY EVEN HAVE SKYPE IN WHICH  
ALLOWS PHONE CALLS PHONES TO  
CALL YOUR SKYPE NUMBER.  
JUST I WOULD TRY IT JUST TO SEE  
HOW IT COMPARES.

AND IF YOU'RE GETTING THE SAME  
RESULTS THEN IT'S PROBABLY THE  
BEST YOU'RE GONNA GET.

SKYPE DOES A VERY GOOD JOB OF  
HANDLING ALL OF THIS STUFF SO  
I'D BE CURIOUS.

IT'S FREE TO DOWNLOAD FROM S-K-Y-P-E.COM.

UM AND YOU COULD EVEN USE SKYPE  
AS YOU WOULD USE PRIMUS WITH A,  
WITH A REAL PHONE AND SO FORTH  
FOR ADDITIONAL MONEY.

UM PRIMUS IS PRETTY MUCH PRICED  
LIKE EVERYBODY ELSE IS.

IF THEY HAVE AN ABILITY TO TURN  
DOWN THE AMOUNT OF BANDWIDTH  
THEY USE YOU MIGHT TRY THAT.

SOMETIMES THAT HELPS.

IT'LL MAKE THE QUALITY OF THE  
VOICE A LITTLE BIT LOWER.

BUT YOU'LL HAVE FEWER DROPOUTS  
AND BURBLES AND THINGS LIKE THAT.

AH I DON'T KNOW IF THEY ALLOW  
YOU TO CONFIGURE IT THAT WAY OR NOT.

BUT I THINK TRUTHFULLY WHAT  
YOU'RE EXPERIENCING IS PRETTY COMMON.

UM THE OTHER THING TO KEEP IN  
MIND IS THAT YOUR COMPUTER'S  
DOING A LOT OF WORK TOO.

COMPRESSING IT WHILE YOU'RE  
TALKING SO IF YOU HAVE A LOT OF  
STUFF RUNNING IN THE BACKGROUND  
TURN THAT OFF.

IF YOU HAVE STUFF ACCESSING THE  
INTERNET AT THE SAME TIME TURN  
THAT OFF.

[MUSIC]

**Leo:** I KNOW YOU SHOULDN'T  
HAVE TO DO THAT.

BUT IF YOU'VE GOT IF YOU'RE

DOWNLOADING A MOVIE OR A MUSIC  
FILE OR YOU'RE STREAMING  
INTERNET VIDEO OR AUDIO THAT'S  
GONNA IMPACT YOUR PHONE CALLS TOO.  
SO THE BEST WAY TO SEE HOW GOOD  
CAN THIS GET IS TO TURN OFF ALL  
THE BACKGROUND STUFF.  
USE THE FASTEST COMPUTER IN THE HOUSE.  
USE IT A TIME WHEN THE INTERNET  
ISN'T VERY BUSY, SEE HOW IT  
SOUNDS THEN AND THEN NOTICE AS  
YOU ADD THESE THINGS BACK IN  
HOW IT DEGRADES IT.  
AND THAT'LL GIVE YOU SOME IDEA  
OF WHY VOICEOVER INTERNET IS  
NOT QUITE READY FOR PRIMETIME.  
I DON'T RECOMMEND PEOPLE  
REPLACE THEIR LANDLINES WITH IT.  
OF COURSE IF YOU HAVE A CELL  
PHONE YOU ALWAYS HAVE ANOTHER  
CHANNEL, ANOTHER ALTERNATIVE.  
THANKS FOR THE CALL.

I APPRECIATE IT.

I WISH I COULD GIVE YOU BETTER NEWS.

DO YOU USE VOICEOVER THE  
INTERNET SEAN?

**Sean Carruthers:** NOT MUCH.

I USE SKYPE EVERY SO OFTEN.

**Leo:** SKYPE WE USE.

**Sean Carruthers:** YEAH.

**Leo:** I HAVE VONAGE AT HOME  
AND I, I JUST DON'T USE IT THAT  
MUCH BECAUSE I JUST DON'T FIND

IT THAT GOOD.

IT, IT DOESN'T REPLACE A LANDLINE.

[Pop captions up]

**Sean Carruthers:** I DON'T HAVE ANYBODY TO TALK TO.

SO I DON'T USE A PHONE AT ALL ACTUALLY.

**Leo:** WELL ONE THING YOU DO

HAVE SEAN CARRUTHERS LOTS OF

LITTLE BLACK CABLES.

[Pop captions down]

**Sean Carruthers:** YES.

**Leo:** WHAT IS THIS YOU'RE

TALKING ABOUT HERE?

[Pop captions up]

**Sean Carruthers:** THIS RIGHT

HERE IS THE ULTRA X3 1000-WATT

POWERSUPPLY.

WE WERE TALKING TO ONE OF OUR

CALLERS EARLIER ABOUT BUILDING PLACES.

I STILL LIKE TO DO THAT AS WELL.

**Leo:** THIS IS BEAUTIFUL.

[Pop captions down]

**Sean Carruthers:** AND A GOOD

POWER SUPPLY IS ESSENTIAL WHEN

YOU'RE BUILDING A HIGH

PERFORMANCE MACHINE.

**Leo:** YOU KNOW 1000 WATTS IS A LOT.

**Sean Carruthers:** 1000 WATTS IS A LOT.

**Leo:** MOST OF THEM ARE AT THE

400 RANGE, 450.

**Sean Carruthers:** RIGHT.

SO 1000 WATTS IS, IS THE KIND

THAT YOU'LL USE WHEN YOU'VE GOT

LIKE 16 HARD DRIVES IN THERE.

**Leo:** RIGHT.

**Sean Carruthers:** 2 HIGH-END  
GRAPHICS CARDS.

**Leo:** RIGHT.

**Sean Carruthers:** A HIGH-END  
PROCESSOR DOING A LOT OF  
OVERCLOCKING YOU WANT TO MAKE  
SURE THAT YOU'RE NOT EVER GONNA  
BROWNOUT THAT SYSTEM.

**Leo:** AND UNLIKE A LOT OF  
POWER SUPPLIES THIS HAS  
CONNECTORS ON IT.

**Sean Carruthers:** RIGHT.

**Leo:** WHAT ARE THESE FOR?

**Sean Carruthers:** THESE ON  
THE NEW HIGH-END PERFORMANCE  
POWER SUPPLIES YOU'RE SEEING THIS.  
SO THEY CALL THESE RAILS.  
SO INSTEAD OF HAVING ALL OF  
THIS BUNDLE OF CABLES COME OUT  
YOU ACTUALLY BRING THE WIRES  
AND YOU PLUG YOU KNOW ONLY WHAT  
YOU NEED SO YOU'LL --

**Leo:** IS THERE AN ADVANTAGE  
TO DOING IT THAT WAY?  
IT LOOKS PRETTIER I GUESS.

**Sean Carruthers:** WELL IT, IT  
KEEPS DOWN THE, THE MESS OF  
WIRES INSIDE YOUR MACHINE AS WELL.

**Leo:** RIGHT.

THIS IS THE MOTHERBOARD CONNECTOR.

**Sean Carruthers:** RIGHT SO  
THAT GOES TO THE MOTHERBOARD.

**Leo:** THESE ARE THE STANDARD  
POWER CONNECTORS THAT YOU WOULD USE --

**Sean Carruthers:** RIGHT SO  
YOU CONNECT THESE INTO THE  
APPROPRIATE PLACE.

**Leo:** THIS IS FOR SATA DRIVES  
FOR INSTANCE.

**Sean Carruthers:** YEAH SO --

**Leo:** THIS WOULD BE FOR THE IDE DRIVE.

**Sean Carruthers:** BY ONLY  
PLUGGING IN THE ONES THAT YOU  
NEED YOU CAN MINIMIZE THE WIRE  
TANGLE INSIDE YOUR MACHINE  
WHICH ALLOWS FOR AIRFLOW --

[Both talking at once]

**Leo:** I ACTUALLY LIKE THAT IDEA.  
I MEAN I ALWAYS HAVE A LOT OF  
POWER TAILS HANGING AROUND ON  
MY MACHINE.

**Sean Carruthers:** RIGHT.  
DOWN SIDE IS OF COURSE IS YOU  
HAVE TO ASSEMBLE IT ALL YOURSELF.  
BUT IF YOU'RE GETTING THIS KIND  
OF POWERSUPPLY YOU PROBABLY  
KNOW WHAT YOU'RE DOING ANYWAYS.

**Leo:** ONE OTHER THING TO  
MENTION IS THAT A PREMIUM  
POWERSUPPLY LIKE THIS IS  
ACTUALLY TESTED AND RATED AND  
WILL RUN AT THE NUMBER OF WATTS  
YOU'RE BUYING.

**Sean Carruthers:** RIGHT.

**Leo:** FREQUENTLY WHEN YOU GET

A CHEAP POWERSUPPLY THAT COMES  
WITH A CASE THEY'RE GUESSING.

[Laughs]

**Sean Carruthers:** YEAH THE, THE --

**Leo:** IT MIGHT GIVE YOU A  
COUPLE OF HUNDRED WATTS IT  
MIGHT NOT!

**Sean Carruthers:** I THINK ONE  
OF THEM MANAGED TO ACCOMPLISH  
THAT AT SOME POINT.

**Leo:** EXACTLY.

**Sean Carruthers:** BUT  
TYPICALLY THEY'LL FAIL A LOT  
LOWER THAN THAT.

[Pop captions up]

**Leo:** THESE ARE TESTED INDIVIDUALLY.  
THIS IS FROM ACTI --

**Sean Carruthers:** IT'S FROM ULTRA.

**Leo:** ULTRA OKAY.

**Sean Carruthers:** ULTRA.  
SO LOTS OF POWER AVAILABLE,  
LOTS OF CABLES AND --

**Leo:** BEAUTIFUL.

**Sean Carruthers:** THESE CABLES ARE HERE ARE A LITTLE  
BIT NICER BECAUSE THEY'RE VERY  
FLEXIBLE AND COMPACT.

**Leo:** I LIKE IT YEAH.

**Sean Carruthers:** THERE'S 15  
DIFFERENT, DIFFERENT CONNECTORS  
ON THE BACK SO YOU HAVE A LOT  
OF DIFFERENT POWER CHOICES HERE  
AND IT HAS A LIFETIME WARRANTY,  
WHICH IS REALLY GOOD.

**Leo:** LIFETIME OF?

**Sean Carruthers:** LIFETIME OF  
THE, THE POWERSUPPLY I GUESS.  
NO YOUR LIFETIME.

**Leo:** OKAY.

[Laughs]

**Sean Carruthers:** YOU'LL LIKE THAT.  
IF IT FAILS YOU'LL GET IT REPLACED.

**Leo:** OKAY.

**Sean Carruthers:** YOU HAVE TO  
PUT IT TOGETHER AND IT IS PRICEY.  
AND THERE ARE MORE POTENTIALLY  
LOOSE CONNECTIONS.

YOU GET 2 --

[Both talking at once]

**Leo:** YEAH --

**Sean Carruthers:** POINTS ON THIS --

**Leo:** RIGHT.

**Sean Carruthers:** INSTEAD OF JUST ONE.

[Pop captions down]

**Leo:** RIGHT.

**Sean Carruthers:** YOU KNOW.

**Leo:** THESE ARE PRETTY SOLID.

**Sean Carruthers:** IT IS.

**Leo:** THEY CLICK IN.

**Sean Carruthers:** PRETTY SOLID.

**Leo:** SO IT'S NOT LIKELY  
THEY'RE GONNA FALL OUT, VERY NICE.

**Sean Carruthers:** YEAH AND  
THE, THE ONE MORE DOWNSIDE OF THIS --

**Leo:** BOY THAT SURE LOOKS GREAT.

**Sean Carruthers:** ITS, ITS SO  
PRETTY YOU ALMOST DON'T WANT TO

TOUCH IT CAUSE YOUR  
FINGERPRINTS ALL OVER IT.

**Leo:** IT'S LIKE, IT'S LIKE A PIANO MIRROR.

**Sean Carruthers:** YEAH.

**Leo:** A PIANO FINISH.

COMING UP WE'RE GONNA TALK  
ABOUT BLOGHER.

DO YOU KNOW WHAT BLOGHER IS?

[Pop captions up]

**Sean Carruthers:** I DO.

**Leo:** BLOGHER IS A, A GROUP  
OF WOMEN BLOGGERS.

AND THE COFOUNDER AND COO OF  
BLOGHER IS HERE ELISA CAMAHORT  
PAGE AND I CANNOT WAIT TO TALK  
TO HER ABOUT BLOGGING, BLOGGING  
FOR WOMEN AND BLOGGING FOR MEN  
WHO READ BLOGS BY WOMEN.

HOW ABOUT THAT?

YEAH BUT RIGHT NOW IT'S ONE  
LAST CHANCE TO TAKE OUR QUICK  
QUIZ QUESTION OF THE DAY.

HERE IT IS.

WHAT DID PET STAND FOR IN THE  
COMMODORE PET?

ONE OF THE VERY EARLIEST  
PERSONAL COMPUTERS.

DO YOU HAVE ANY IDEA?

I DON'T.

I'LL TELL YOU WHAT.

WE'LL FIND OUT WHEN "THE LAB"  
CONTINUES RIGHT AFTER THIS.

[MUSIC]

[Pop captions down]

[Commercial break]

[MUSIC]

[Pop captions up]

**Leo:** WELCOME BACK TO "THE LAB".  
BEFORE THE BREAK WE ASKED YOU  
WHAT PET STANDS FOR?  
I THINK ITS FIELD EFFECT TRANSMISSION.  
NO PERFECT, PERSONAL ELECTRONIC TRANSACTOR.  
WELL I'M GLAD THEY DIDN'T  
PUBLICIZE THAT.

[Pop captions down]

**Leo:** NOBODY WOULD HAVE BOUGHT ONE.  
COMMODORE PET WAS ONE OF THE  
BIG COMPUTERS IN THE EARLY,  
EARLY DAYS.  
YOU DON'T REMEMBER THAT.  
ELISA CAMAHORT PAGE IS HERE.  
SHE IS FAR TOO YOUNG TO  
REMEMBER THE PET.

**Elisa Camahort Page:** OH THANK YOU FOR SAYING SO.

**Leo:** BUT THE FOUNDER,  
COFOUNDER WITH JORY DES JARDINS  
AND LISA STONE OF BLOGHER.

**Elisa Camahort Page:** THAT'S RIGHT.

**Leo:** I HAVE TO SAY THAT  
BLOG-HER SO YOU DON'T THINK  
IT'S BLOGGER.

**Elisa Camahort Page:** RIGHT.

**Leo:** BLOGHER IS FOR WOMEN BLOGGERS.

[Pop captions up]

**Elisa Camahort Page:** RIGHT  
BLOGHER IS AN ORGANIZATION

THAT'S SORT OF BY ABOUT AND FOR  
WOMEN BLOGGERS.

BUT WE DO HAVE MALE READERS.

[Pop captions down]

**Elisa Camahort Page:** WE DO  
HAVE MALE ATTENDEES AT OUR CONFERENCES.  
IT'S JUST THE FOCUS IS ON  
CREATING OPPORTUNITIES FOR  
WOMEN ONLINE.

**Leo:** YOU FOUNDED BLOGHER A  
COUPLE OF YEARS AGO.

**Elisa Camahort Page:** YEAH IN EARLY 2005.

**Leo:** SO ALMOST 3 NOW.

**Elisa Camahort Page:** YEAH.

**Leo:** WHY DID YOU FEEL IT  
NEEDED, THERE NEEDED TO BE  
SOMETHING LIKE BLOGHER?

**Elisa Camahort Page:** WELL  
BACK IN EARLY 2005 THERE WAS  
THIS LIKE RECURRING THEME WHERE  
ARE THE WOMEN?  
AND IT WASN'T JUST ABOUT BLOGGING.  
THIS WAS RIGHT AFTER CARLY  
FIORINA WAS PUSHED OUT.

**Leo:** RIGHT.

**Elisa Camahort Page:** AND PEOPLE WERE ARE THE WOMEN OF --

**Leo:** SHE WAS THE CEO OF, OF --

**Both:** HP.

[Pop captions up]

**Elisa Camahort Page:** AND WHERE ARE THE WOMEN IN FORTUNE  
500 BOARDROOMS?

**Leo:** AND THERE AREN'T A LOT.

**Elisa Camahort Page:** RIGHT.

AND IT HASN'T GOTTEN MUCH  
BETTER IN THE LAST --

**Leo:** THEY'RE STILL AREN'T A  
LOT, IT'S WORSE YEAH.

**Elisa Camahort Page:** RIGHT.  
WHERE ARE THE WOMEN ON BED  
PAGES OF MAJOR NEWSPAPERS?

**Leo:** RIGHT.

[Pop captions down]

**Elisa Camahort Page:** WHERE ARE THE WOMEN ON SUNDAY  
MORNING TALK SHOWS?  
AND WHERE ARE THE WOMEN  
SPEAKING AT TECHNICAL  
CONFERENCES?

AND A PROMINENT MALE POLITICAL  
BLOGGER SAID WHERE ARE THE  
WOMEN BLOGGERS?

**Leo:** WHOO.

**Elisa Camahort Page:** AND HE  
DIDN'T SAY WHERE ARE THEY LIKE  
PLEASE TELL ME CAUSE I KNOW  
THEY MUST BE OUT THERE.

HE SAID IT LIKE WHERE ARE THEY?  
WHY DON'T THEY BLOG?  
ARE THEY AFRAID TO DEBATE?

**Leo:** BOY WAS HE WRONG.

**Elisa Camahort Page:** YEAH.  
SO AT THE TIME MY TWO PARTNERS  
AND I BESIDES BEING BLOGGERS  
KNEW TONS OF WOMEN BLOGGERS.

**Leo:** OH YEAH.

**Elisa Camahort Page:** AND WOMEN EVEN AT THAT TIME  
COMPRISED MORE THAN HALF THE

INTERNET USERS.

**Leo:** RIGHT, RIGHT.

**Elisa Camahort Page:** AND  
ABOUT HALF THE BLOGGERS.  
SO WE SAID RATHER THEN TALK  
ABOUT IT SOME MORE YOU KNOW ON  
OUR BLOGS, WHICH EVERYBODY WAS DOING.

**Leo:** RIGHT.

**Elisa Camahort Page:** WHY  
DON'T WE JUST THROW OUT A CALL  
TO HAVE A CONFERENCE BY AND  
ABOUT AND FOR WOMEN BLOGGERS?  
AND SEE IF ANYONE WILL SHOW UP.  
AND WE JUST BLOGGED THE IDEA  
AND WE WERE BY NO MEANS REALLY  
PROMINENT BLOGGERS.  
UM WE WERE JUST REALLY ACTIVE,  
IMMERSED IN THE COMMUNITY.

**Leo:** RIGHT.

**Elisa Camahort Page:** WE BLOGGED IT AND THE RESPONSE WAS  
REALLY PASSIONATE --

**Leo:** OH YEAH.

**Elisa Camahort Page:** AND IMMEDIATE AND POSITIVE.

**Leo:** OH YEAH.

**Elisa Camahort Page:** THEN WE  
ENDED UP 120 DAYS LATER WE HAD  
A SOLDOUT CONFERENCE UM THAT  
GOT A LOT OF BUZZ IN THE  
BLOGOSPHERE AND EVEN IN THE  
MAINSTREAM MEDIA.  
AND IT WAS UM OUR, OUR FIRST  
EFFORT WAS REALLY THIS CONFERENCE.

**Leo:** I DON'T THINK ANYBODY

WOULD ASK WHERE ARE THE WOMEN  
BLOGGERS TODAY?

**Elisa Camahort Page:** I, I DON'T THINK SO.

**Leo:** THERE'S ARIANNA HUFFINGTON.

**Elisa Camahort Page:** RIGHT.

**Leo:** THERE'S, I MEAN THERE  
ARE LOTS OF VERY WELL-KNOWN  
WOMEN BLOGGERS.

THERE IS A WHOLE SLEW OF SO-  
CALLED MOMMY BLOGS.

**Elisa Camahort Page:** RIGHT.

**Leo:** THERE ARE BLOGS IN EVERY CATEGORY.

**Elisa Camahort Page:** THAT'S  
THE THING IS THAT WOMEN YOU  
KNOW GET KIND OF SILOED ONLINE.  
AND YOU GO TO ONE SITE IF YOU  
CARE ABOUT PARENTING.

**Leo:** RIGHT.

**Elisa Camahort Page:** AND ONE SITE IF YOU CARE ABOUT FASHION  
AND BEAUTY.

**Leo:** RIGHT.

**Elisa Camahort Page:** AND THEN YOU KNOW MAYBE YOU CAN GO  
HERE FOR HOME AND GARDEN.  
BUT IF YOU LOOK AT OUR SITE AND  
THE TOPICS WHAT WE DISCOVERED  
AFTER THE FIRST CONFERENCE IS  
THAT WOMEN ARE BLOGGING ABOUT  
EVERYTHING UNDER THE SUN.

**Leo:** OH YEAH.

**Elisa Camahort Page:** AND THEY CARE ABOUT IT ALL.  
AND THEY CAN HOP FROM CARING  
ABOUT FASHION AND BEAUTY TO  
CARING ABOUT THE WAR IN IRAQ TO

CARING ABOUT THE LATEST GADGET  
OR THE LATEST SOCIAL MEDIA.

**Leo:** AND LOTS OF, LOTS OF  
GADGET BLOGS BY WOMEN.

I KNOW MANY WOMEN WHO DO GADGET BLOGS.

**Elisa Camahort Page:** YEAH PUFF EVANS IS ONE.

**Leo:** WHAT UM WOULD YOU  
PLEASE DON'T TAKE THIS THE  
WRONG WAY.

WOULD YOU SAY WOMEN BLOGGERS  
ARE DIFFERENT DO THEY BLOG  
DIFFERENTLY THEN MEN?

**Elisa Camahort Page:** OH I THINK SOME DO.  
IT'S REALLY HARD TO MAKE A HUGE  
GENERALIZATION.

[Pop captions up]

**Elisa Camahort Page:** BUT I WILL SAY THAT THERE IS A  
COMMUNITY OF, OF BLOGGERS AND  
WOMEN BLOGGERS WHERE IT'S  
REALLY ABOUT THE SUBSTANCE OF  
THE CONVERSATION, SOME --

**Leo:** THE COMMUNICATION'S  
REALLY BIG.

[Pop captions down]

**Elisa Camahort Page:** REALLY BACK AND FORTH.

**Leo:** THE CONVERSATION.

**Elisa Camahort Page:** THE, THE COMMENTS --

**Leo:** YES.

**Elisa Camahort Page:** ARE REALLY LONG AND THERE'S LOTS OF --

**Leo:** BUT I THINK THAT'S TRUE  
OF ALL GOOD BLOGS DON'T YOU?

**Elisa Camahort Page:** WELL THERE ARE CERTAINLY MANY, MANY  
PROMINENT BLOGS IN THE

POLITICAL AND TECHNICAL SPACE  
THAT ARE REALLY ABOUT PUTTING  
AN OPINION OUT THERE.

**Leo:** MY ARTICLES, MY  
OPINION, RIGHT.

**Elisa Camahort Page:** AND THEN THE COMMENTS EITHER ARE  
COMPRISED OF YOU ROCK OR YOU  
SUCK YOU KNOW.

**Leo:** YEAH THAT'S TRUE.

**Elisa Camahort Page:** AND THAT'S THE, THAT'S THE LEVEL -

**Leo:** YEAH.

**Elisa Camahort Page:** OF THE CONVERSATION.

AND SO I WILL SAY, I WILL SAY  
THAT I THINK MANY WOMEN TEND TO  
BE MORE INTO HAVING A  
CONVERSATION.

BUILDING THESE LITTLE MICRO  
COMMUNITIES.

**Leo:** MMM-HMM.

**Elisa Camahort Page:** THEIR OWN COMMUNITIES OF INTERESTS  
AND BUILDING THOSE CONNECTIONS.

**Leo:** IT'S MORE NATURAL I  
THINK FOR WOMEN TO DO THAT.  
THEY, THEY'RE, THEY'RE MORE  
SOCIAL THEN MEN OFTEN.

**Elisa Camahort Page:** OFTEN YES.

**Leo:** AND IT IS, IT IS A MORE  
SOCIAL EXPERIENCE.

**Elisa Camahort Page:** WELL I THINK THERE'S SOMETHING KEY  
HERE IN THAT WOMEN UM A LOT OF  
THE WOMEN OUT THERE BLOGGING  
WHEN WE DID OUR CONFERENCE THIS YEAR.

**Leo:** MMM-HMM.

**Elisa Camahort Page:** SO WE WENT FROM HAVING 300 IN 2005 TO 800 THIS YEAR.

**Leo:** WOW.

**Elisa Camahort Page:** IN CHICAGO.

**Leo:** WOW.

**Elisa Camahort Page:** AND WE TURNED TO THE AUDIENCE AND SAID HOW MANY OF YOU CONSIDER YOURSELF TO BE SELF-TAUGHT GEEKS? AND ABOUT THREE-QUARTERS OF THEM RAISED THEIR HAND.

AND I KNOW I'M ONE AND WHEN I STARTED BLOGGING I DIDN'T KNOW ANYTHING.

**Leo:** RIGHT.

**Elisa Camahort Page:** BUT I TAUGHT MYSELF HTML. I TAUGHT MYSELF TO UNDERSTAND CSS. I TAUGHT MYSELF TO CREATE WIDG, I CREATED WIDGETS YOU KNOW.

**Leo:** RIGHT.

**Elisa Camahort Page:** AND A LOT OF WOMEN ARE OUT THERE DOING THIS. IT'S OPENED UP THIS WORLD TO PEOPLE WHO ARE NOT ENGINEERS OR PROGRAMMERS TO REALLY START TO CROSS THE ADOPTION DIGITAL DIVIDE.

**Leo:** RIGHT, RIGHT.

**Elisa Camahort Page:** AND THERE'S A LOT OF OPPORTUNITY THERE AND SO I THINK PART OF THE, THE CHANGE YOU SEE IS THIS EXPANSION OF BLOGGING NOT JUST BEING INVOLVING PEOPLE WHO ARE FROM THE TECHNICAL SIDE. WHERE THERE MIGHT BE A NATURAL PROPENSITY TO BE MORE INTEGRATED.

**Leo:** ANYBODY CAN BLOG.

YEAH.

**Elisa Camahort Page:** YEAH.

**Leo:** ANYBODY.

YEAH YOU'RE RIGHT GEEKS ARE  
KIND OF INTROVERTED.

I HAVE TO SAY THOUGH IT'S NOT  
JUST A GENDER THING.

IT'S NOT BECAUSE THERE ARE A  
LOT OF GEEKS WHO ARE SELF-  
TAUGHT LIKE MYSELF YOU GET INTO  
IT BECAUSE YOU HAVE THAT  
INTEREST.

**Elisa Camahort Page:** RIGHT.

**Leo:** BUT YOU MAKE THE POINT,  
WHICH I THINK IS REALLY  
IMPORTANT THAT THERE'S NO  
REASON NOT TO BLOG NOW.

**Elisa Camahort Page:** RIGHT.

**Leo:** YOU DON'T HAVE TO BE A  
TECHNICAL PERSON.

**Elisa Camahort Page:** RIGHT.

**Leo:** ANYBODY CAN DO IT AND  
THAT'S WHERE YOU GET A WHOLE  
VARIETY OF THINGS.

**Elisa Camahort Page:** I'M PROOF RIGHT, YEAH.

**Leo:** YEAH.

WELL I DON'T KNOW ABOUT THAT.  
HOW MANY BLOGS DO YOU HAVE?

**Elisa Camahort Page:** WELL RIGHT NOW I WRITE ON 5 OR 6  
BLOGS.

**Leo:** GEE!

**Elisa Camahort Page:** I USED TO HAVE MORE.

**Leo:** HOW DO YOU KEEP UP WITH THAT MANY?

DO YOU WRITE EVERY DAY?

[MUSIC]

**Elisa Camahort Page:** I DON'T WRITE IN EVERY BLOG EVERY DAY.

I ACTUALLY I AM GEEKY AND I

HAVE A SPREADSHEET AND I TRACK

WHEN I BLOG IN EACH BLOG.

AH AND I TRY TO BE REGULAR

ABOUT IT AND, AND CONSISTENT AND --

**Leo:** YOU'VE DISCOVERED YOUR INNER GEEK.

THAT'S WHAT YOU DID.

**Elisa Camahort Page:** I TOTALLY HAVE.

I, I WANT TO I'M A HUGE WANNABE

GEEK, UM SO I'M CONSTANTLY --

**Leo:** WELL YOU DON'T HAVE TO

BE A WANNABE ANYMORE.

I THINK YOU, I THINK YOU

QUALIFY.

[Laughs]

**Elisa Camahort Page:** YEAH THAT'S, THAT'S WHAT MY, MY

HUSBAND SAYS ALL THE TIME.

IT'S LIKE YOU CROSSED THE LINE

ELISA, YOU KNOW YOU WERE WELL --

**Leo:** WELL, WELL VERY MUCH --

**Elisa Camahort Page:** INTO GEEKDOM.

I'M LIKE OKAY.

**Leo:** B-L-O-G-H-E-R.COM.

**Elisa Camahort Page:** THAT'S RIGHT.

**Leo:** THAT'S THE WEBSITE.

[Pop captions up]

**Leo:** AND YOU CAN I'M SURE

FIND ALL YOU HAVE TO DO IS DO A

LITTLE SEARCH FOR ELISA CAMAHORT PAGE.

YOU'LL FIND LOTS OF ONLINE CONTENT.

**Elisa Camahort Page:** THAT'S TRUE.

**Leo:** SHE'S GOT BLOGS EVERYWHERE.

THANK YOU SO MUCH FOR COMING ON.

**Elisa Camahort Page:** OH THANKS LEO.

**Leo:** I REALLY APPRECIATE IT.

AND AN IMPORTANT MESSAGE IF YOU  
WANT TO BLOG WOMEN OR MEN DO  
IT, JUST DO IT.

**Elisa Camahort Page:** YEAH.

[Pop captions down]

**Leo:** IT'S A GREAT, GREAT THING TO DO.

**Elisa Camahort Page:** ABSOLUTELY.

**Leo:** OUR FINAL WORDS COMING  
UP RIGHT AFTER THIS.

YOU STAY RIGHT HERE.

[MUSIC]

[Commercial break]

[MUSIC]

[Both laughing]

**Leo:** WELCOME BACK.

[Pop captions up]

**Leo:** WE SHOULD THINK OF A  
NAME FOR YOUR BLOG CAUSE YOU  
HAVE A BLOG ON OUR SITE.

**Kate:** I DO INDEED.

**Leo:** SO THAT'S JUST KATE'S BLOG.

**Kate:** YEAH.

**Leo:** WE NEED TO COME UP WITH  
A CLEVER NAME FOR YOUR PERSONAL BLOG.

**Kate:** ABSOLUTELY.

**Leo:** BUT YOU DON'T, YOU  
DON'T HAVE A PERSONAL BLOG.

**Kate:** I DO INDEED.

**Leo:** YOU DO?

**Kate:** I DO.

**Leo:** WHAT'S IT CALLED?

**Kate:** IT IS ACTUALLY CALLED  
LONG-LEGGED KATE AT BLOGSPOT.COM.

**Leo:** I KNEW IT!

[Laughs]

**Kate:** I'VE BEEN KEEPING IT  
FOR ABOUT TWO AND A HALF, THREE YEARS.

**Leo:** SEE ITS FUN.

**Kate:** AND IT'S ACTUALLY THE  
ENGLISH GIRL IN CANADA.

**Leo:** I JUST LOVE BLOGS.

I THINK IT'S SO COOL.

[Both talking at once]

[Pop captions down]

**Leo:** THANKS FOR JOINING US.

YOU DO A BLOG OKAY?

WE'LL SEE YOU NEXT TIME ON "THE LAB".

**Kate:** BYE-BYE.

**Leo:** BYE-BYE.

[MUSIC]

[Coins bouncing]

[MUSIC]

[Pop captions up quickly]

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[Pop captions down]