

[Pop captions up]

[MUSIC]

**Amber MacArthur:** I'M AMBER MACARTHUR.

TODAY ON "THE LAB" HOW TO PIMP

OUT VLC PLAYER.

[Pop captions down]

[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.

THIS IS THE SHOW WHERE WE

EXPLAIN HOW TECHNOLOGY WORKS.

WE HELP YOU UNDERSTAND IT AND

WE HELP YOU BUY IT.

WE HELP YOU CONFIGURE IT, GET

THE MOST OF IT.

LADIES AND GENTLEMEN, SHE'S

DRESSED IN BLACK.

ARE YOU IN MOURNING?

**Kate:** NO.

**Leo:** KATE ABRAHAM, NOTHING

BUT CHEERFUL.

**Kate:** IT'S SLIMMING.

**Leo:** CHIPPER.

SLIMMING, YOU DON'T NEED ANY SLIMMING.

MY GOD SHE'S GORGEOUS.

LADIES AND GENTLEMEN A FABULOUS  
SHOW FOR YOU NOT ONLY KATE ABRAHAM.

BUT ALSO AKASH SABLOK, HE'S  
GONNA TALK ABOUT GADGETS THAT  
POWER OUR WORLD, POWER GADGETS.

**Kate:** OKAY.

**Leo:** THEY'RE ALL LINED UP THERE.  
YOU KNOW UPSES, APCS ALL THIS  
KIND OF STUFF AND --

**Kate:** EVERY ACRONYM POSSIBLE.

**Leo:** EVERY POSSIBLE ACRONYM.  
AMBER MACARTHUR, WE CALL HER AMAC.

**Kate:** AMAC.

**Leo:** SHE'S HERE.  
SHE'S GONNA SHOW YOU THREE NEW  
MEDIAPLAYERS FOR WINDOWS.

**Kate:** OKAY.

**Leo:** YOU DON'T HAVE TO USE  
WINDOWS MEDIAPLAYER.  
WE'VE GOT SOME REALLY COOL ONES  
AND THEY'RE ALL FREE, THREE FREE.  
AH OF COURSE WE WILL HAVE A  
FREE FILE OF THE DAY WITH MR. RYAN YEWELL.  
WILL KNOLL WILL SHOW US HOW TO  
BUILD A WEBSERVER.

YOU'RE GONNA HAVE A TIP.  
BUT THE MOST IMPORTANT PART OF  
THIS SHOW IS --

**Kate:** THE CALLERS.

**Leo:** YOU BETTER BELIEVE IT.  
SO LET'S GET OUR FIRST ONE ON.

**Kate:** FANTASTIC.

WE'RE GOING TO LONDON ONTARIO  
AND WE HAVE AHMED.

**Leo:** AHMED WELCOME TO SHOW 168.  
THANK YOU KATE.

**Kate:** THANK YOU.

**Leo:** HOW ARE YOU TODAY?

**Ahmed:** WOW.

[Pop captions up]

**Ahmed:** GOOD HOW YOU DOING?

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

**Ahmed:** YES ABOUT BACK IN  
SEPTEMBER I PURCHASED A LAPTOP ACER 3680.

**Leo:** YEP.

**Ahmed:** WHEN I FIRST GOT IT I  
GOT VISTA HOME BASIC.

**Leo:** RIGHT.

**Ahmed:** BUT WHEN I UPGRADED  
TO THE VISTA HOME PREMIUM MY  
WEBCAM STOPPED WORKING.

**Leo:** OH YOU'RE KIDDING?  
YOU MEAN IT WORKED IT WORKED IN  
BASIC BUT IT DIDN'T WORK IN, IN  
VISTA PREMIUM?

[Pop captions down]

**Ahmed:** YES.

**Leo:** WELL I'LL BE DANGED.

**Ahmed:** YEP.

**Leo:** WELL THERE IT THERE  
HAVE BEEN IN THE PAST THERE  
HAVE BEEN A LOT OF PROBLEMS  
WITH ACER'S IS IT AN ORBICAM?

**Ahmed:** YES ORBICAM.

**Leo:** YEAH.

[Pop captions up]

**Leo:** ITS FUNNY CAUSE IT  
WORKED WITH VISTA BASIC.

**Ahmed:** YEAH.

**Leo:** THERE HAVE BEEN A LOT  
OF PROBLEMS WITH THE ORBICAM  
AND THE VISTA MOSTLY COMING  
FROM PEOPLE WHO UPGRADED FROM  
XP TO VISTA.

[Pop captions down]

**Leo:** BUT YOU'RE NOT REALLY  
UPGRADING FROM XP TO VISTA.  
YOU'RE UPGRADING FROM VISTA TO VISTA.

**Ahmed:** YEAH.

**Leo:** SO YOU'D THINK IT'D BE  
THE SAME DRIVER.

**Ahmed:** YOU WOULD THINK.

**Leo:** I'M GONNA POINT YOU TO  
A SITE THIS IS A GREAT SITE FOR  
ANYBODY WHO HAS AN ACER LAPTOP  
OR A DESKTOP.  
THIS IS THE ACERGUY.COM AND  
THIS GUY IS GREAT.

[Pop captions up]

**Leo:** I MEAN HE JUST ITS ALL  
ACER ALL THE TIME AND HE HAS A  
WHOLE PAGE CALLED THE ACER  
ORBICAM FIX AND IT TALKS ABOUT  
THE ISSUES THAT THE ORBICAM HAS  
WITH VISTA.

[Pop captions down]

**Leo:** AND HE'S GOT SOME VERY

SIMPLE THINGS, INCLUDING LINKS TO IMPROVE DRIVERS, THE BISON DRIVER AND THE BISON UTILITY. IT SOUNDS LIKE THESE ARE, ARE WHAT YOU WANT.

**Ahmed:** YEAH.

**Leo:** AND, AND I HAVE A FEELING WHAT HAPPENED IS THAT THE ORIGINAL DRIVER THAT YOU HAD WAS SOMETHING ACER ADDED ON TOP OF HOME BASIC RIGHT? AND THEN YOU UPGRADE --

**Ahmed:** I THINK SO YEAH.

**Leo:** UPGRADE TO PREMIUM AND WHAT VISTA DOES IS THROWS OUT ALL THE OLD DRIVERS AND SAYS I'VE GOT YOUR DRIVER RIGHT HERE. BUT THAT'S NOT THE RIGHT DRIVER.

**Ahmed:** MMM-HMM.

**Leo:** SO WHAT YOU NEED TO DO IS SAY NO, NO VISTA THAT'S NOT THE RIGHT DRIVER. HERE'S THE DRIVER AND YOU CAN DOWNLOAD THESE FROM THE ACER SITE. SO I WOULD GIVE YOU THE LINK BUT IT'S A LONG LINK. IT'S SUPPORT.ACER-EURO.COM-SLASH-DRIVER-SLASH-NOTEBOOK-SLASH YOU KNOW. IT GOES ON AND ON AND ON. BUT HE HAS A NUMBER OF OTHER FIXES. IN FACT THERE'S BEEN A LOT OF TALK BACK AND FORTH ON THIS SITE.

VISTA'S KIND OF NOTORIOUS FOR  
NOT WORKING WELL WITH WEBCAMS.

**Ahmed:** MMM-HMM.

**Leo:** SO THAT'S WHERE I'M  
GONNA POINT YOU BECAUSE THERE'S  
NO ONE SIMPLE FIX FOR THIS.  
BUT IT, BUT IT IS A KNOWN  
PROBLEM WITH VISTA.

**Ahmed:** YEAH.

**Leo:** UM THE OTHER THING YOU  
COULD DO IS YOU COULD GO IN AND  
YOU COULD REMOVE ALL THE  
WEBCAME DRIVERS.  
YOU KNOW FIND ALL OF THE  
ORBICAM DRIVERS.  
TAKE EM OUT AND, AND REBOOT AND  
HOPE THAT VISTA CAN KIND OF  
GIVE YOU THE RIGHT DRIVERS.

**Ahmed:** OKAY.

**Leo:** HAVE YOU TRIED DOING THAT?

**Ahmed:** NO ACTUALLY I HAVEN'T TRIED IT.  
BUT THAT'S A GOOD IDEA.  
I'M GONNA TRY DOING THAT.

**Leo:** YEAH THAT'S ONE THING  
YOU KNOW YOU MIGHT ACTUALLY  
HAVE THE RIGHT DRIVER ON THERE  
BUT VISTA GOT CONFUSED OR  
DECIDED TO USE THIS ONE.  
YOU KNOW THERE'S ALL SORTS OF ISSUES.  
I, I LIKE VISTA BUT THIS, BUT  
THIS IS THE EXACT PROBLEM WITH  
IT IS THAT FOR SOME REASON IT  
CAN OFTEN HAVE TROUBLE WITH

OLDER HARDWARE AND SOFTWARE.  
WEBCAMS IN PARTICULAR, EVEN  
MICROSOFT'S OWN WECAM DIDN'T  
WORK WITH VISTA FOR SIX MONTHS.

**Ahmed:** REALLY?

**Leo:** YEAH. YOU'D THINK MICROSOFT'S WOULD.

**Ahmed:** YEAH YOU WOULD.

**Leo:** SO THERE'S CLEARLY AN  
ISSUE WITH WEBCAMS AND VISTA.  
IT COULD BE BECAUSE VISTA HAS  
ALL THIS ADDITIONAL LAYER OF  
COPY PROTECTION FOR VIDEO AND AUDIO.  
I DON'T KNOW.

THAT'S PURE SPECULATION ON MY PART.

**Ahmed:** YEAH.

**Leo:** BUT, BUT THIS IS A GREAT SITE.  
ACE, YOU HAVE AN ACER YOU  
SHOULD KNOW ABOUT IT ANYWAY,  
THE ACERGUY.COM.

[Pop captions up]

**Leo:** IF YOU GOOGLE THE ACER  
GUY AND ORBICAM YOU'LL FIND  
LOTS AND LOTS OF CONVERSATION  
BACK AND FORTH ON THIS WORKED.

[Pop captions down]

**Leo:** THIS DIDN'T WORK.  
I'VE TRIED THIS, THIS, YOU KNOW  
ONE OF THESE THINGS WILL WORK  
FOR YOU. ALL RIGHT?

**Ahmed:** OKAY THANK YOU.  
I'LL TRY THAT DEFINITELY.

**Leo:** AHMED THANK YOU SO MUCH FOR CALLING.  
I REALLY APPRECIATE IT.

**Ahmed:** THANK YOU, NO PROBLEM.

[MUSIC]

**Leo:** HAVE A GREAT DAY.

**Ahmed:** YOU TOO.

**Leo:** TAKE CARE.

HEY COMING UP GADGETS.

YOU GOT POWER?

[Pop captions up]

**Leo:** IF, IF YOU'VE GOT A

GADGET, IF YOU'VE GOT A

COMPUTER YOU'VE GOT POWER.

AND MAYBE YOU'VE GOT POWER PROBLEMS.

THE GADGETS THAT POWER OUR

WORLD COMING UP WITH AKASH

SABLOK IN JUST A LITTLE BIT AS

"THE LAB" CONTINUES.

YOU STAY RIGHT HERE.

[Pop captions down]

[MUSIC]

[Commercial break]

[MUSIC]

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

AKASH SABLOK IS HERE.

HE'S A TECHNOLOGY JOURNALIST, A

GADGET HOUND, A PROUD NEW PAPA.

HOW OLD IS YOUR BABY NOW?

**Akash Sablok:** HE'S THREE AND A HALF MONTHS.

**Leo:** OH.

**Akash Sablok:** YEAH.

**Leo:** IT'S SO GREAT.

**Akash Sablok:** YEAH.

**Leo:** IT'S SO FUN.

I'M SURE WE'RE GONNA START

SEEING BABY GADGETS LIKE CRAZY SOON.

**Akash Sablok:** NO, YES, YES.

**Leo:** BUT UNTIL THEN AND THIS  
TIME ITS POWER.

**Akash Sablok:** YES.

**Leo:** AND POWER'S REALLY IMPORTANT.  
IN FACT YOU KNOW EVERYTHING WE  
USE RUNS ON POWER.

A LOT OF TIMES PEOPLE JUST PLUG  
IT INTO THE WALL AND THAT'S NOT  
ALWAYS THE BEST THING TO DO.

**Akash Sablok:** NO, NO AND IT'S, IT'S PART OF IT IS  
PORTABLE POWER.

PART OF IT IS CONSERVING POWER.

**Leo:** RIGHT.

**Akash Sablok:** SO USING POWER  
EFFICIENTLY, VERY, VERY  
IMPORTANT WITH ALL THE GADGETS  
THAT WE GET NOW.

**Leo:** THIS IS NOT PORTABLE.

**Akash Sablok:** NO THAT THING IS NOT PORTABLE.

**Leo:** THIS I LOVE THIS  
COMPANY THOUGH, APC MAKES GREAT STUFF.

**Akash Sablok:** THEY MAKE YEAH  
VERY, VERY GOOD QUALITY PRODUCTS.

[Pop captions up]

**Akash Sablok:** THEY'VE BEEN  
IN THE BUSINESS FOR A LONG TIME.  
THEY DO A LOT OF COMMERCIAL APPLICATIONS.  
BUT THIS IS PART OF THEIR,  
THEIR CONSUMER LINE.  
THIS IS THE APC E,ES SERIES.

[Pop captions down]

**Leo:** MMM-HMM.

**Akash Sablok:** NOW WHAT THIS  
DOES IS IT COMES WITH SOFTWARE  
THAT HOOKS UP TO YOUR COMPUTER.

**Leo:** RIGHT.

**Akash Sablok:** THROUGH YOUR USB PORT.

**Leo:** RIGHT.

**Akash Sablok:** AND IT SENSES  
DEVICES THAT ARE USING VERY LITTLE POWER.

**Leo:** OH INTERESTING.

**Akash Sablok:** THAT ARE IN SAY STANDBY MODE.  
SO YOUR MONITOR.

**Leo:** RIGHT.

**Akash Sablok:** YOUR PRINTER.

**Leo:** RIGHT.

**Akash Sablok:** IT WILL AUTOMATICALLY SHUT DOWN  
THOSE PORTS.

**Leo:** OH WHAT A GOOD IDEA.  
SO THAT SAVES YOU A LITTLE  
EXTRA POWER.

**Akash Sablok:** YEAH.

**Leo:** NOW I CAN TELL IT'S A,  
IT'S A UPS CAUSE IT'S HEAVY AND  
THAT MEANS IT'S GOT A BATTERY IN IT.

**Akash Sablok:** IT'S GOT A BUILT-IN BATTERY YEAH.

**Leo:** OKAY.

**Akash Sablok:** SO IT'LL GIVE  
YOU ABOUT FOUR HOURS OF --

**Leo:** IF THE POWER GOES OUT  
YOU CAN KEEP RUNNING.

**Akash Sablok:** YES YOU CAN, UM --

**Leo:** I USE THESE ACTUALLY, I  
HAVE A VERY, BIG HEAVY

INDUSTRIAL APC UPS SO THAT IF  
THE POWER GOES OUT I CAN STILL  
DO MY RADIO SHOW FOR THREE  
HOURS STRAIGHT WORTH.

**Akash Sablok:** YEAH, YEAH.

[Laughs]

**Leo:** BUT THESE, THESE ARE  
GETTING SMALL AND MORE COMPACT.  
THIS IS GREAT AND SOME NICE NEW FEATURES.

**Akash Sablok:** YES.

NOW, NOW THAT FEATURE IS REALLY GOOD.  
LIKE WHEN YOU THINK ABOUT IT  
YOUR, YOUR, YOUR COMPUTER GOES  
DOWN IN SLEEP MODE BUT YOU  
DON'T SHUT YOUR MONITOR OFF.

**Leo:** RIGHT, RIGHT.

**Akash Sablok:** AND THIS WILL DO THAT FOR YOU.

**Leo:** RIGHT.

AND THEN I PRESUME WHEN I TURN  
THE COMPUTER BACK ON IT'S  
SMARTEST TO SAY OH --

**Akash Sablok:** YES.

**Leo:** IT'S TIME TO, TIME TO WAKE UP.

**Akash Sablok:** RIGHT AWAY, RIGHT AWAY.

**Leo:** WAKE UP.

**Akash Sablok:** AND THE BATTERY IS USER REPLACEABLE SO  
AFTER A FEW YEARS THE BATTERY GOES.

**Leo:** YES. AND YOU SHOULD CHECK THOSE REGULARLY --

**Akash Sablok:** YES.

**Leo:** BECAUSE THEY DO WEAR  
OUT EVEN IF YOU DON'T EVER USE  
THEM JUST SITTING THERE.

**Akash Sablok:** YEAH.

**Leo:** BUT THE NICE THING IS  
IT'S VERY SIMPLE TO POP IT OUT  
FROM THE NEW ONE AND I'VE DONE  
THAT MANY TIMES WITH MINE.

**Akash Sablok:** YEAH.

**Leo:** APC'S --

**Akash Sablok:** IT'S ABOUT \$120.

**Leo:** VERY NICE.

**Akash Sablok:** IT GIVES YOU  
INPUTS FOR YOUR CABLEVISION AS  
WELL, FOR YOUR CABLE WIRE AND  
TELEPHONE SURGE PROTECTION --

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

**Akash Sablok:** FOR THOSE AS WELL.

**Leo:** PEOPLE DON'T REALIZE.

YOU OUGHT TO GET SURGE  
PROTECTIONS ON THESE.

**Akash Sablok:** YOU SHOULD.

**Leo:** LIGHTNING CAN COME  
RIGHT IN THROUGH THOSE --

**Akash Sablok:** EXACTLY.

**Leo:** AND THAT'S BAD NEWS.

**Akash Sablok:** YEAH, YEAH.

**Leo:** WHAT ELSE HAVE WE GOT HERE?

**Akash Sablok:** WELL A COUPLE  
OF OTHER POWER SUPPLIES.  
THIS IS THE BELKIN COMPACT  
SURGE PROTECTOR.

**Leo:** LOOK HOW SMALL THAT IS.  
I LIKE THAT.

**Akash Sablok:** IT'S REALLY  
TINY AND IT'S DESIGNED TO SORT  
OF FIT UNDERNEATH A DESK.

SO YOU'RE GONNA GET LITTLE TINY  
LEGS ON YOUR DESK --

**Leo:** RIGHT.

**Akash Sablok:** YOU SLIDE THE  
RUNNER UNDERNEATH.

**Leo:** BUT IT HAS A LOT OF PLUGS.  
I MEAN HERE'S SOME MORE PLUGS  
ON THE SIDE HERE.

**Akash Sablok:** YES.

[Pop captions up]

**Leo:** THERE'S PLUGS UP HERE.  
I MEAN YOU'RE REALLY SAFE.

**Akash Sablok:** YEAH.

**Leo:** YOU COULD, YOU KNOW.

**Akash Sablok:** AND IT WORKED  
WELL FOR LARGER ADAPTORS,  
ESPECIALLY THE ONES ON THE SIDE HERE.

**Leo:** YEAH, YEAH.

YOU COULD EASILY PLUG IN A BIG  
POWER ADAPTOR THERE.

[Pop captions down]

**Akash Sablok:** YEP AND YOU  
CAN JUST SORT OF CLOSE THESE UP  
IF YOU DON'T NEED EM.

**Leo:** THAT'S KIND OF NEAT.  
SO WHETHER YOU HAVE KIDS.

**Akash Sablok:** YEAH.

**Leo:** KEEP THEIR FINGERS OUT OF THERE.

**Akash Sablok:** YOU DON'T WANT  
THEM POPPING STUFF IN THERE.

**Leo:** YEAH, YEAH THAT'S REALLY GOOD.  
THAT'S REALLY GOOD.

**Akash Sablok:** OH YEAH AND

YOU'RE DRINKING POP BESIDE YOUR  
COMPUTER YOU DON'T WANT TO  
SPILL IT INTO THERE.

[Laughs]

**Leo:** AH HOW MUCH IS THAT?

**Akash Sablok:** AH THAT'S ABOUT \$45.

**Leo:** 45 BUCKS.

**Akash Sablok:** YEAH.

**Leo:** VERY GOOD.

WHAT'S THIS ONE?

**Akash Sablok:** THIS IS THE BELKIN CONCEAL.  
SO A SIMILAR CONCEPT TO THE, TO  
THE COMPACT BUT WHAT ITS  
DESIGNED TO DO IS IT CONCEAL EVERYTHING.

**Leo:** OH LOOK AT SO INSIDE  
ARE ALL THE PLUGS.

**Akash Sablok:** YEAH.

**Leo:** YOU'LL PLUG EVERYTHING  
IN AND I DON'T KNOW IF YOU CAN SEE THAT.  
YOU'LL PLUG EVERYTHING IN AND  
THEN YOU CLOSE IT UP.

**Akash Sablok:** YEAH.

[Pop captions up]

**Leo:** AND THEN YOU DON'T HAVE  
TO SEE, YOU DON'T HAVE TO LOOK  
AT THEM.

I NEED THIS FOR MY OFFICE.

I'VE NEVER SEEN A WORSE RAT'S  
NEST OF WIRES.

[Pop captions down]

**Leo:** IT'S JUST AWFUL.

**Akash Sablok:** AS LONG AS YOU  
DON'T HAVE RATS RUNNING AROUND

THE WIRES YOU'RE OKAY.

**Leo:** WELL I DON'T KNOW.

I CAN'T TELL.

THERE COULD BE ANYTHING DOWN THERE.

SO THIS WOULD BE NICE.

YOU CLOSE IT ALL UP --

**Akash Sablok:** YEAH.

**Leo:** AND IT'S OUT OF SIGHT,

OUT OF MIND, BUT IT'S --

[Both talking at once]

**Akash Sablok:** IT'S, IT'S,

YOU KNOW WITH COMPUTERS ARE

GETTING TO BE ALL ABOUT THE

LOOK AS WELL RIGHT.

**Leo:** ABSOLUTELY.

**Akash Sablok:** SO YOU WANT TO

KEEP EVERYTHING AROUND IT NICE

AND CLEAN AS WELL.

**Leo:** THEY'RE IN THE LIVING ROOM NOW.

**Akash Sablok:** YES.

**Leo:** THEY'RE NOT JUST IN OFFICES.

**Akash Sablok:** YES DEFINITELY.

**Leo:** THIS IS TOO SMALL TO BE

A SURGE SUPPRESSOR.

WHAT IS THIS?

**Akash Sablok:** NO IT'S NOT A

SURGE PROTECTOR, PROTECTOR.

[Pop captions up]

**Akash Sablok:** BUT THIS IS

THE TARGUS AIR AND AUTO INVERTER.

**Leo:** OKAY.

**Akash Sablok:** SO BASICALLY WHAT YOU HAVE IS SO YOU CAN

PLUG THIS INTO YOUR TELEPHONE

ADAPTOR IN A, IN A CAR.

[Pop captions down]

**Leo:** AH.

**Akash Sablok:** I DON'T CALL  
IT A CIGARETTE ADAPTOR ANYMORE  
BECAUSE A LOT OF PEOPLE DON'T  
EVEN SMOKE.

[Both talking at once]

**Leo:** NO, NOBODY SMOKES.

**Akash Sablok:** YEAH.

**Leo:** YEAH.

**Akash Sablok:** AND IT GIVES YOU TWO OUTLETS.

**Leo:** SO THIS TURNS THE  
POWER, THE DC POWER FROM YOUR CAR --

**Akash Sablok:** INTO AC.

**Leo:** INTO AC THEN YOU COULD PLUG IN.

**Akash Sablok:** 120 VOLTS.

[Pop captions up]

**Leo:** AH WHAT A GREAT IDEA.

**Akash Sablok:** DON'T USE YOUR BLOWDRYER ON IT BUT IT'LL BE  
FINE FOR YOUR LAPTOP.

[Pop captions down]

**Leo:** OKAY THAT'S RIGHT.

**Akash Sablok:** OR YOUR YOU KNOW OF YOUR, YOUR OTHER CELL  
PHONE CHARGERS.

**Leo:** CHARGES, CELL PHONE?

**Akash Sablok:** YEAH, YEAH.

A COUPLE OF NEAT THINGS THERE,  
ON THE BACK YOU ACTUALLY HAVE A  
USB PORT.

SO SOME DEVICES ARE CHARGED OFF USB --

**Leo:** RIGHT, MY BLACKBERRY  
CHARGES OFF USB SO I CAN PLUG

THE USB CABLE IN THERE.

**Akash Sablok:** THERE YOU GO.

THERE YOU GO.

**Leo:** OH THAT'S A GREAT IDEA.

**Akash Sablok:** AND THAT'S

WHEN YOU'RE IN YOUR CAR.

WHAT IF YOU GET ON THE PLANE?

IT'S GOT A STANDARD PLUG THAT JUST --

**Leo:** THAT'S THE PLANE PLUG.

**Akash Sablok:** THAT'S THE PLANE PLUG.

**Leo:** I'LL BE DANGED.

**Akash Sablok:** YEAH.

**Leo:** HOW MUCH IS THAT?

**Akash Sablok:** AH THIS IS ABOUT \$89.

**Leo:** THAT'D BE VERY HANDY TO

HAVE AROUND.

**Akash Sablok:** IT IS VERY HANDY YEAH.

AND ITS COMPACT --

[Both talking at once]

**Leo:** YOU KNOW IF YOU GO

CAMPING AND YOU'VE GOT ONE OF

THOSE AIR MATTRESS BLOWER UPPERS.

**Akash Sablok:** YEAH.

**Leo:** AND YOU DON'T HAVE THE

ADAPTOR FOR IT YOU JUST PLUG IT IN.

**Akash Sablok:** YEAH YOU BET.

**Leo:** PERFECT.

YOU COULD HAVE USED THAT KATE

THE OTHER NIGHT.

WE'LL TALK ABOUT THAT LATER.

[Kate laughs]

**Leo:** WHAT ELSE HAVE YOU GOT?

**Akash Sablok:** WELL THIS IS

EVEN MORE PORTABLE.

IF YOU DON'T HAVE A CAR OR A  
PLANE TO PLUG INTO --

**Leo:** IT'S A LONG STORY, YOU  
DON'T WANT TO KNOW.

**Akash Sablok:** OH OKAY WELL,  
WELL WE CAN CHARGE UP YOU CAN  
TELL ME THE WHOLE STORY HERE.

**Leo:** OKAY.

**Akash Sablok:** THIS IS THE ENERGIZER ENERGI TO GO SERIES.

**Leo:** OKAY.

**Akash Sablok:** SO IT'S ABOUT \$30.  
NOW WHAT THIS DOES IS IT COMES  
WITH THE TWO ENERGIZER LITHIUM  
BATTERIES ALL RIGHT?

**Leo:** THOSE ARE THOSE REALLY  
EXTRA STRONG LONG LASTING.

**Akash Sablok:** VERY LONG LASTING BATTERIES.

**Leo:** YOU SEE THEM IN CAMERAS  
AND THINGS LIKE THAT.

**Akash Sablok:** YEAH.

**Leo:** OKAY AND AT THE BOTTOM  
HERE IT COMES WITH DIFFERENT  
PLUGS FOR YOUR CELL PHONE.

[Pop captions up]

**Leo:** SO THIS IS A BATTERY  
CHARGER FOR YOUR CELL PHONE.

**Akash Sablok:** EXACTLY.

**Leo:** SO IF YOU NEED A QUICK  
CELL PHONE CHARGE YOU CAN  
ALWAYS GET IT DONE.

**Akash Sablok:** YES, DEFINITELY.

**Leo:** THAT'S GREAT.

[Pop captions down]

**Akash Sablok:** YOU KNOW

THERE'S A LOT OF PEOPLE THAT  
KEEP CELL PHONES IN THEIR CAR.

**Leo:** RIGHT.

**Akash Sablok:** JUST FOR EMERGENCY USE ONLY.

**Leo:** RIGHT.

**Akash Sablok:** SO THEY'RE NOT  
CHARGING IT ALL THE TIME.

**Leo:** RIGHT.

**Akash Sablok:** AND THIS IS GREAT FOR THAT.  
YOU NEED IT YOU PLUG IT IN.

**Leo:** YOU TURN IT ON.

**Akash Sablok:** WITHIN 30 SECONDS YOU CAN MAKE A CALL.

**Leo:** REALLY?

**Akash Sablok:** YEAH AND IT'LL  
CHARGE IT QUITE WELL.  
IT'S GOT SMART TECHNOLOGY TO  
USE THE MOST EFFICIENT USE OF  
THE BATTERIES IN THERE.

**Leo:** AND THEY HAVE TIPS FOR  
MOST CELL PHONES?

**Akash Sablok:** WELL THERE'S ABOUT FOUR DIFFERENT  
PACKAGES THAT YOU GET.

**Leo:** OKAY.

**Akash Sablok:** BUT THE  
COOLEST THING THAT ENERGIZER'S  
DONE IS THEY ACTUALLY ALLOW THE  
ADAPTOR PLUGS TO STICK OUT OF  
THE PACKAGING.

**Leo:** OH SO YOU CAN TRY IT.

**Akash Sablok:** SO YOU CAN,  
YOU CAN TEST YOUR CELL PHONE.

YOU DON'T BRING IT HOME OPEN IT  
UP AND GO OH SHOOT.

**Leo:** I CAN'T TELL ME, I  
CAN'T TELL YOU HOW MANY CABLES  
I'VE BROUGHT HOME THAT DON'T FIT.  
THEY LOOK ALL LOOK THE SAME.

**Akash Sablok:** YEAH, YEAH EXACTLY.  
YEAH SO FOR MOTOROLA, FOR PALM,  
FOR SAMSUNG, FOR SANYO THERE'S  
ALL THE CONNECTORS HERE.

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

**Akash Sablok:** YEAH AND THOSE  
ARE ABOUT 30 BUCKS EACH.

**Leo:** POWER ON THE GO FROM  
AKASH SABLOK.

**Akash Sablok:** YES.

**Leo:** HE IS A TECHNOLOGY  
JOURNALIST, NEW PAPA.

**Akash Sablok:** YEAH.

[Pop captions up]

**Leo:** AND YOU CAN FIND HIM ON --

[Blank for boards]

**Akash Sablok:** YEAH.

**Leo:** NOWYOUKNOW.NET.

THANK YOU SO MUCH FOR BRINGING IN --

**Akash Sablok:** YOU'RE WELCOME.

**Leo:** AS ALWAYS BRINGING IN  
SOME VERY INTERESTING STUFF.

**Akash Sablok:** YEAH.

**Leo:** THAT'S GREAT,  
CONGRATULATIONS ON THE BABY.

[Pop captions down]

**Akash Sablok:** THANK YOU.

**Leo:** ARE YOU GONNA HAVE A LORI PARTY?

**Akash Sablok:** A LORI PARTY, YES.

**Leo:** YES?

**Akash Sablok:** YES THAT'S A  
CELEBRATION FOR THE BABY THAT  
YOU DO.

**Leo:** THAT'S REALLY NEAT.  
I KNOW YOUR BROTHER'S IN TOWN.

**Akash Sablok:** YES.

**Leo:** FROM MUMBAI.

**Akash Sablok:** FROM MUMBAI  
YEAH.

**Leo:** THAT'S EXCITING.

**Akash Sablok:** YEAH.

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

**Akash Sablok:** THANK YOU.

**Leo:** HAVE A WONDERFUL TIME.

**Akash Sablok:** THANK YOU.

**Leo:** IT'S GREAT TO SEE YOU AGAIN.

**Akash Sablok:** ALL RIGHT.

**Leo:** WE'RE GONNA TAKE A  
BREAK, COME BACK IN JUST A  
LITTLE BIT WITH MORE OF YOUR CALLS.  
BUT FIRST WHAT THE TECH IS THAT?  
SEE AKASH SHOULD BE GOOD AT THIS.  
IT'S A CLOSEUP OF SOMETHING  
YOU'D COMMONLY FIND AROUND "THE LAB".  
HE PROBABLY KNOWS.  
HE'S PROBABLY SEEN IT A MILLION TIMES.  
IT'S A LIME-GREEN DOOHICKEY.  
WHAT IS IT?  
I'LL TELL YOU WHAT, WE'LL,  
WE'LL ZOOM OUT AND WE'LL FIND

OUT WHEN "THE LAB" CONTINUES.

DO YOU KNOW?

DO YOU KNOW?

[MUSIC]

[Pop captions down]

[Commercial break]

[MUSIC]

[Pop captions up]

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

BEFORE THE BREAK WE SHOWED YOU  
THIS UP TIGHT CLOSEUP OF SOMETHING.

LET'S ZOOM OUT AND FIND OUT

WHAT IT IS CAUSE I HAVE,

DAYSAGO DISPLAY.

OH YEAH YOU TALKED ABOUT THAT

SHOT THAT TELLS YOU THAT HOW

LONG THAT MAYONNAISE HAS BEEN

IN THE FRIDGE.

[Pop captions down]

**Leo:** THAT MAYONNAISE LOOKS

LIKE IT'S BEEN IN THE FRIDGE A LONG TIME.

HOW LONG?

**Sean Carruthers:** 28, 28 DAYS AND TAX.

**Leo:** 28 DAYS.

I'D THROW IT OUT.

NOT THAT YOU.

ALL RIGHT LET'S GET TO PHONES.

KATE HAS ANOTHER CALLER FOR US.

HELLO KATE.

**Kate:** I DO.

THAT MAYONNAISE DIDN'T LOOK

VERY NICE.

**Leo:** DID NOT LOOK GOOD.

**Kate:** NO.

**Leo:** IT LOOKED NASTY.

**Kate:** LEAVE THAT ALONE.

WE'RE GOING TO SUMMERSIDE  
CALIFORNIA AND THIS IS JUSTIN.

**Leo:** HEY JUSTIN.

**Justin:** HI LEO HOW ARE YOU?

**Leo:** I'M FANTASTIC.

WELCOME TO THE SHOW AND HOW ARE  
YOU DOING?

[Pop captions up]

**Justin:** WELL LEO IF I WAS  
ANY BETTER I THINK I'D HAVE TO  
CALL A DOCTOR.

[Leo laughing]

[Pop captions down]

**Justin:** UM ACTUALLY I'M FROM  
CANADA ACTUALLY.

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

[Both talking at once]

**Leo:** SO YOU'RE IN THE STATES  
NOW WORKING OR?

**Justin:** NO I LIVE HERE YEAH.

**Leo:** WELL WAIT A MINUTE SHE  
SAID, WHERE, WHERE ARE YOU  
CALLING FROM?

**Kate:** HE SUBMITTED CALIFORNIA.

**Justin:** AH EAST COAST,  
PRINCE EDWARD ISLAND.

**Leo:** OH OKAY PEI.

**Justin:** YEAH.

**Leo:** YEAH, ALL RIGHT, RIGHT ON.  
WE'VE GOT AMBER MACARTHUR

ANOTHER PEIER COMING UP A  
LITTLE BIT LATER ON.

**Justin:** OH WOW.

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

**Justin:** UM WELL LEO I HAVE,  
I HAVE AN OLD 50 IT'S NOT OLD.  
BUT I HAVE A 56K DATA FAX MODEM  
RUNNING FROM --

[Both talking at once]

**Leo:** THAT'S, THAT'S PRETTY  
OLD, COME ON.

[Laughs]

**Justin:** YEAH IT'S OLD --

**Leo:** IT'S NOT BRAND NEW.

**Justin:** UM SO I'M, I'M  
WONDERING BEFORE I TOSS IT OUT  
OR YOU KNOW SEND FAXES BACK AND  
FORTH TO MY FRIENDS OR WHATEVER.  
UM I'M WONDERING ARE THERE ANY  
PRACTICAL USES FOR THIS THING  
LIKE WITH RESPECT TO MAYBE LIKE  
A CALLER I.D. SOFTWARE OR  
SOMETHING LIKE THAT?

**Leo:** SURE, SURE, SURE, SURE.

**Justin:** OKAY.

**Leo:** THERE'S A LOT OF CALLER  
I.D. SOFTWARE OUT THERE.  
UM WELL I SHOULDN'T SAY A LOT.  
ITS FUNNY CAUSE THERE'S NOT  
THAT MANY VOICE MODEMS OUT  
ANYMORE RIGHT.  
I MEAN THAT'S, THAT'S KIND OF  
OLDER TECHNOLOGY THAT WAS VERY

POPULAR FOR A WHILE.

[Pop captions up]

**Leo:** IT STILL WORKS AND  
ANSWERS THE PHONE IF YOU TURN  
IT INTO THAT MODE AND ALL THAT STUFF?

**Justin:** OH YEAH IT'S GREAT.

**Leo:** IT CAME WITH DID IT NOT  
SOFTWARE THAT WOULD DO  
VOICEMAIL AND THINGS LIKE THAT  
I, I WOULD PRESUME YEAH?

[Pop captions down]

**Justin:** YEAH IT, IT CAME  
WITH, IT CAME WITH FAXING SOFTWARE.

**Leo:** OKAY.

**Justin:** I'M NOT SURE ABOUT, ABOUT VOCAL.

**Leo:** LET ME SHOW YOU THIS IS  
ACTUALLY, THIS IS ACTUALLY  
PROBABLY A GOOD SITE FOR YOU TO  
KNOW ABOUT, ITS CALLED  
VOICECALLCENTRAL.COM.

[Pop captions up]

**Leo:** AND THEY HAVE A NUMBER  
OF DIFFERENT PROGRAMS THAT WILL  
TAKE ADVANTAGE OF THAT U.S.  
ROBOTICS VOICE MODEM.  
THESE ARE, THESE ARE MODEMS  
THAT ARE PARTICULARLY DESIGNED  
NOT JUST AS A REGULAR MODEM.

[Pop captions down]

**Leo:** AH NOT MERELY AS A  
REGULAR MODEM.  
BUT THEY CAN ALSO ANSWER THE  
PHONE, TAKE VOICE CALLS.

WITH THE PROPER SOFTWARE YOU  
CAN DO VOICEMAIL.

THIS IS THE PROGRAM YOU WANT.  
NOW THE GOOD NEWS IS YOU CAN  
TRY IT FOR 30 DAYS BEFORE YOU  
BUY IT.

SO IT'S AND IT'S NOT EXPENSIVE.

I THINK IT'S 30 OR 40 BUCKS,

IT'S VERY INEXPENSIVE.

IT'S THE ADVANCED CALL CENTER PROGRAM.

IT'LL I'M PRETTY SURE IT WORKS

WITH THE U.S. ROBOTICS VOICE

MODEM AND THAT WAS PROBABLY THE

MOST, THE DOMINANT PRODUCT IN

THIS CATEGORY.

AND IT WILL TAKE CALLS.

IT WILL KEEP TRACK OF WHO CALLS.

IT WILL EVEN TAKE YOU KNOW THEY

CAN, THEY CAN LEAVE VOICEMAIL

ON YOUR COMPUTER.

IT BASICALLY TURNS YOUR

COMPUTER INTO A SUPER-DUPER

VERY FANCY ANSWERING MACHINE.

IS THAT WHAT YOU WANTED TO DO?

**Justin:** YEAH I THINK SO

YEAH, JUST, JUST ANYTHING YOU

KNOW JUST A PRACTICAL USE FOR IT.

**Leo:** YEAH LOOK SEE WHAT HAPPENS?

ITS GOT INCOMING CALL.

IT SAYS WHO IT IS, THE PHONE NUMBER.

YOU CAN ANSWER IT, DROP IT,

HOLD IT.

YOU CAN RECORD IT.

I MEAN THIS IS THIS DOES IT ALL FOR YOU.

IT'S KIND OF NEAT.

**Justin:** WOW OKAY.

**Leo:** YEAH AND IT'S NOT

EXPENSIVE AT ALL.

I MEAN ITS, ITS VERY

INEXPENSIVE, RUNS ON VISTA AS

WELL AS XP.

**Justin:** OKAY.

**Leo:** WHICH IS GOOD NEWS, IT

MEANS UP TO DATE.

ITS BEEN KEEPING TRACK OF IT.

IT'LL DO THE CALLER I.D. AS

LONG AS YOUR PHONE COMPANY

SUPPORTS IT OBVIOUSLY.

**Justin:** YEAH.

**Leo:** IT HAS A BUILT-IN

ADDRESS BOOK, ANSWERING MACHINE.

YOU CAN CALL IN AND GET YOUR MESSAGES.

IT HAS VOICE ANNOUNCE SO IT'LL

SAY OUT LOUD AHM YOU'VE GOT A

CALL FROM RICHARD.

I MEAN THIS IS VERY

SOPHISTICATED.

**Justin:** OKAY GREAT.

**Leo:** AT VOICECALLCENTRAL.COM, I WAS

ACTUALLY SURPRISED TO FIND OUT

THIS STILL IS AROUND BECAUSE

VOICE MODEMS AREN'T REALLY

STILL AROUND.

YOU'D, I MEAN YOU'D BE HARD

PRESSED TO BUY ONE.

BUT APPARENTLY THERE ARE ENOUGH

PEOPLE WHO WANT TO USE THIS.  
NOW I SHOULD MENTION THE OPEN  
SOURCE PROJECT CALLED ASTERISK  
AND THE TRIXBOX WHICH IS A VERY  
NOW THIS IS, THIS IS MUCH MORE ELABORATE.  
THIS WOULD TAKE A COMPUTER AND  
TURN IT IN A PBX.  
I MEAN THIS IS A BIG, OLD PROJECT.  
IT'S A VERY ELABORATE PROJECT.  
YOU'D PROBABLY END UP GETTING  
ADDITIONAL HARDWARE TO CONNECT  
IT TO YOUR PHONE SYSTEM.  
BUT IT MIGHT BE SOMETHING YOU  
WANT TO TAKE A LOOK AT.  
IT'S, IT'S A LINUX BASED SYSTEM  
SO IT WOULD TAKE OVER YOUR  
WHOLE COMPUTER.  
IF YOU WANT TO KEEP WINDOWS ON  
THERE STICK WITH THE CALL  
CENTER THAT I TALKED ABOUT.  
BUT THIS IS IF YOU WANT TO DO  
SOMETHING EVEN MORE  
SOPHISTICATED AND WANTED TO  
PLAY WITH IT.

**Justin:** OKAY.

**Leo:** TRIXBOX IT'S VERY COOL, OKAY?

**Justin:** GREAT SOUNDS GOOD --

[Both talking at once]

**Leo:** HEY THANKS FOR THE CALL JUSTIN.

[MUSIC]

**Leo:** I'M GLAD TO KNOW YOU'RE  
BACK IN CANADA.

[Laughs]

**Justin:** YES AH --

**Leo:** WHO KNEW?

**Justin:** IT'S COLD.

I'D RATHER BE IN CALIFORNIA,

BUT I THINK --

[Both talking at once]

**Leo:** NO, NO STAY WHERE YOU ARE.

PRINCE EDWARD ISLAND'S

GORGEOUS, MAYBE NOT IN THE

WINTER, BUT IN THE SUMMER GORGEOUS.

**Justin:** YEAH.

**Leo:** THANKS FOR THE CALL.

ALL RIGHT WE'RE GONNA TAKE A

WALK OVER TO MR. RYAN YEWELL.

**Ryan Yewell:** HELLO.

**Leo:** WHO'S GOT A JEWEL.

**Ryan Yewell:** I DO.

**Leo:** IS THIS A GREAT

SOFTWARE PROGRAM FOR OOH WAIT A MINUTE.

**Ryan Yewell:** YEAH IT'S --

**Leo:** THIS LOOKS LIKE, THIS

LOOKS FAMILIAR.

**Ryan Yewell:** THE FANS ARE

GOING REALLY FAST ON THE

MACBOOK HERE.

WE'RE IN WINDOWS AND WE'RE ALSO

AND THIS IS ALSO IN LINUX, ITS

CALLED GLEST.

**Leo:** I WAS GONNA SAY IT

LOOKS A LITTLE BIT LIKE WARCRAFT.

[Pop captions up]

**Ryan Yewell:** IT IS LIKE,

IT'S LIKE THE WARCRAFT 3.

**Leo:** YEAH.

**Ryan Yewell:** IT'S A REAL  
TIME STRATEGY GAME.  
SO I'M JUST GONNA TAKE A LOOK  
AROUND, SHOW YOU THE GRAPHICS.

**Leo:** OH I LOVE THIS KIND OF GAME.

**Ryan Yewell:** THIS IS REALLY COOL.

**Leo:** LOOK AT THAT.

[Pop captions down]

**Ryan Yewell:** SO I'VE GOT MY  
LITTLE BASE HERE NOW.  
IN GLEST THERE'S TWO FACTIONS.  
THERE'S THE MAGIC USERS AND THE  
TECH USERS.  
SO THEY EACH HAVE THEIR OWN UNITS.  
THEY EACH HAVE THEIR OWN --

**Leo:** AND LET ME GUESS ARE  
YOU A TECH USER?

**Ryan Yewell:** I'M ACTUALLY A MAGIC USER.

**Leo:** ALL RIGHT WELL I'LL BE A TECH USER.

**Ryan Yewell:** SO I'VE GOT A BATTLE GOING HERE.  
I'M GONNA UNPAUSE IT.  
IT'S GONNA HAPPEN PRETTY QUICK.

**Leo:** OH THIS IS VERY MUCH  
LIKE WARCRAFT.

[MUSIC]

**Ryan Yewell:** IT IS.  
SO YOU CAN SEE HERE ALL THESE  
GUYS THAT ARE HIGHLIGHTED WE'RE  
TAKING OUT THE ENEMY HERE.  
AND WE'RE COME ON TAKE HIM OUT.

**Leo:** OH AND HE'S USING HIS  
MAGIC ON YOU.

**Ryan Yewell:** OH-OH I THINK I'M ABOUT TO LOSE.

AH.

**Ryan Yewell:** OH LOOK AT THAT.

I JUST GOT MY BUTT KICKED.

**Leo:** THAT'S WHAT YOU GET FOR

BEING MAGIC --

**Ryan Yewell:** ON NATIONAL TELEVISION.

**Leo:** WHEN YOU'RE TECH YOU WIN!

**Ryan Yewell:** I KNOW.

SO ITS, ITS ON LINUX AND MAC

AND THE --

**Leo:** THAT LOOKS REALLY FUN.

**Ryan Yewell:** IT'S REALLY COOL.

THE GRAPHICS ARE GOOD, NOW --

**Leo:** OH SO IT'S NOT JUST WINDOWS?

**Ryan Yewell:** ITS, ITS LINUX AS WELL.

**Leo:** OKAY.

**Ryan Yewell:** NOW THE THING

IS THERE'S NO CAMPAIGN MODE,

WHICH A LOT OF PEOPLE HAVE BEEN

ASKING FOR.

BUT THIS IS AN ONGOING PROJECT

SO THERE PROBABLY IS GONNA BE A

CAMPAIGN MODE.

[Pop captions up]

**Leo:** OKAY CAMPAIGN MODE

MEANS THAT YOU HAVE LEVEL, YOU

KNOW A NUMBER OF LEVELS YOU

HAVE TO BEAT.

[Pop captions down]

**Ryan Yewell:** YEAH.

**Leo:** IF IT'S NOT CAMPAIGN

MODE YOU'RE JUST ALWAYS PLAYING

IT AND YOU HAVE TO RANDOM --

**Ryan Yewell:** YOU'RE  
BASICALLY YOU'RE CHOOSING THE  
SIZE OF YOUR MAP.

**Leo:** I SEE.

**Ryan Yewell:** YOU'RE CHOOSING  
WHO YOU WANT TO BE.  
HOW MANY DIFFERENT KINDS OF  
ENEMIES THERE ARE.

**Leo:** THAT'S FINE --

[Both talking at once]

**Ryan Yewell:** THE -- SET SO

**Leo:** CAN YOU PLAY ONLINE WITH THIS?

**Ryan Yewell:** AH I'M NOT YOU  
KNOW I DON'T KNOW THE ANSWER TO THAT.

**Leo:** YEAH, YEAH, PROBABLY NOT.

WARCRAFT 3 YOU COULDN'T.

**Ryan Yewell:** SO --

**Leo:** IT TOOK, IT TOOK WORLD  
OF WARCRAFT TO ENTER THE --

**Ryan Yewell:** BUT THERE'S A  
BIG COMMUNITY AROUND IT.  
THE DEVELOPERS ARE --

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

**Ryan Yewell:** GLEST.

**Leo:** I NEVER HEARD OF IT.

**Ryan Yewell:** G-L-E-S-T.

**Leo:** I CAN'T WAIT.

I'M GONNA DOWNLOAD IT IMMEDIATELY.

**Ryan Yewell:** IT'S A LOT OF FUN.

**Leo:** GLEST.

**Ryan Yewell:** YES IT IS.

**Leo:** YOU KNOW I WAS, I WAS

LOOKING I WAS SAYING DO I WANT  
TO PLAY AGE OF EMPIRES 3 ALL  
OVER AGAIN?  
NO AND THERE'S NOT BEEN A GOOD  
WARCRAFT 3 LIKE GAME.  
STARCRAFT I GUESS THEY'RE UPDATING.

**Ryan Yewell:** THERE YOU GO.

**Leo:** I CAN'T WAIT.

**Ryan Yewell:** GLEST YEAH.

**Leo:** AND IT'S FREE!

**Ryan Yewell:** IT'S ABSOLUTELY FREE.

**Leo:** WHERE WOULD I FIND THAT?

[Pop captions up]

**Ryan Yewell:** GO TO --

[Blank for boards]

**Ryan Yewell:** HIT FREE FILES,  
YEWELL'S JEWELS.

YOU'LL FIND THIS, SOME OTHER  
GAMES, SOME SERIOUS STUFF, SOME  
FUN STUFF.

**Leo:** VERY COOL.

**Ryan Yewell:** YEAH.

[Pop captions down]

**Leo:** 180 SOME --

**Ryan Yewell:** SOMETHING.

**Leo:** WONDERFUL, WONDERFUL  
FREE PROGRAMS.

**Ryan Yewell:** ALL A JEWEL.

**Leo:** THANK YOU RYAN.

**Ryan Yewell:** YOU'RE WELCOME.

**Leo:** I'M EXHAUSTED.

[Pop captions up]

**Leo:** BUT THERE'S GOOD NEWS.

GUESS WHOSE NEXT.

**Ryan Yewell:** AH WILL KNOLL?

**Leo:** NO.

**Ryan Yewell:** NO?

**Leo:** AMBER MACARTHUR.

**Ryan Yewell:** THERE YOU GO.

**Leo:** YEAH.

**Ryan Yewell:** YOU SEE?

**Leo:** SHE'S BACK.

**Ryan Yewell:** I SHOULDN'T

HAVE SAID ANYTHING.

**Leo:** SHE'S BACK.

WE'RE GONNA SHOW YOU SOME MP

SOME VIDEO PLAYERS --

**Ryan Yewell:** OH NEAT.

**Leo:** THAT ARE BETTER THAN

WINAMP FOR YOUR WINDOWS

ENJOYMENT.

WE'LL DO THAT IN JUST A SCIENCE.

BUT FIRST OUR QUICK QUIZ

QUESTION OF THE DAY.

[Blank for boards]

**Leo:** IS IT --

[Blank for boards]

**Leo:** OR, OR DO THEY JUST DO

THAT PAGE FLIP THING VERY

QUICKLY AND SMOOTHLY?

I THINK THAT'S WHAT IT IS ISN'T IT?

**Ryan Yewell:** I'M NOT SURE.

**Leo:** HMM THINK ABOUT IT.

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

YOU STAY HERE.

[MUSIC]

[Pop captions down]

[Commercial break]

[MUSIC]

**Leo:** WELCOME BACK TO "THE LAB".  
LOOK WHO'S HERE, MY OLD BUDDY,  
MY GOOD FRIEND, MY FORMER CO-  
HOST AMBER MACARTHUR ALL THE  
WAY FROM BEAUTIFUL FLORIDA  
WHERE SHE'S BUNDLED UP AGAINST  
THE CHILL.

**Amber MacArthur:** WELL YOU  
KNOW ITS, ITS GETTING A LITTLE  
CHILLY IN THE EVENINGS HERE BUT  
THE DAYS ARE DEFINITELY BEAUTIFUL.

**Leo:** YEAH WE WERE EARLIER  
AND SHE WAS LIKE IN THE SUN ON  
THE BEACH AND EVERYTHING, ALL  
HOT AND BOTHERED.  
WELL I'M GLAD YOU COULD JOIN US  
TODAY CAUSE WE'RE GONNA TALK  
ABOUT SOMETHING YOU NEVER TALK  
ABOUT WINDOWS.

[Pop captions up]

**Amber:** YES I DON'T TALK  
ABOUT WINDOWS VERY MUCH.  
BUT WE ARE GONNA TALK ABOUT IT  
TODAY AND WE'RE GONNA LOOK AT  
THREE DIFFERENT MEDIAPLAYERS  
THAT ARE SOME ALTERNATIVES TO  
WINDOWS MEDIAPLAYER.  
AND I'M NOT A BIG FAN OF  
WINDOWS MEDIAPLAYER.  
I'M NOT SURE IF YOU ARE LEO.

**Leo:** NO I MEAN IT'S THERE

AND IT'S FREE.

[Pop captions down]

**Leo:** IT'S AVAILABLE.

BUT THERE A LOT OF TIMES IT  
WON'T PLAY THE FILE THAT YOU  
WANT IT TO PLAY.

AND YOU KNOW ITS KIND OF  
LIMITED IN SOME WAYS.

**Amber MacArthur:** YEAH THAT'S  
THE PROBLEM THEN IT SAY OH YOU  
NEED A DIFFERENT CODEKS.

**Leo:** YEAH EXACTLY.

**Amber MacArthur:** SO YOU HAVE  
TO GO FIND IT ONLINE AND IT'S A  
ROYAL PAIN IN THE BUTT.  
SO THE ONE PLAYER THAT I'VE  
ALWAYS USED ON THE MAC.  
IT WORKS ON THE MAC AS WELL AS WINDOWS.

**Leo:** AND LINUX.

**Amber:** AND LINUX EXACTLY.

[Pop captions up]

**Amber:** IS VLC PLAYER WHICH  
HAS SAVED ME A MILLION TIMES.

**Leo:** VLC PLAYER IS REALLY A NEAT PRODUCT.  
IT ACTUALLY WAS WRITTEN BY  
FRENCH SCHOOLBOYS YOU KNOW.

[Pop captions down]

**Amber MacArthur:** REALLY?

**Leo:** I DON'T KNOW.

I'M MAKING THAT UP.

**Amber MacArthur:** OH LEO --

**Leo:** NO, YOU KNOW I REALLY

WANT IF YOU'VE GOT, IF YOU'VE  
GOT A VIDEO PLAYER.  
NO HERE'S, HERE'S VIDEO, VIDEO  
LAND PLAYER AND LOOK WHAT ITS PLAYING.

[Pop captions up]

**Leo:** IT'S PLAYING COMMANDN.  
SO IF YOU GO TO VIDEOLAN.ORG  
YOU'LL SEE IT.

[Pop captions down]

**Leo:** IT WAS ORIGINALLY THE  
ECOLE THE SOMETHING IN, IN  
FRANCE THAT CREATED IT.  
I THINK IT WAS A SCHOOL PROJECT.  
OF COURSE NOW ITS, ITS AN OPEN  
SOURCE PROGRAM AND IT'S USED  
ALL OVER THE WORLD.

[Pop captions down]

[Talking background]

**Amber MacArthur:** IT REALLY HAS SAVED ME SO MANY TIMES WHEN  
I'VE DOWNLOADED A VIDEO FILES AND STUFF --

**Leo:** WAIT A MINUTE, IS THAT  
MIKE LAZAZZERA ON THE SHOW WITH YOU?

**Amber MacArthur:** YES.

**Leo:** DID YOU DO THE LAST  
COMMANDN YOU HAD MIKEY?

**Amber MacArthur:** YEAH HE'S  
COME BACK FOR A COUPLE OF GUEST  
CO-HOST OPPORTUNITIES AND THE  
FIRST COUPLE WERE INTERESTING.  
AND THEN THE MOST RECENT ONE HE  
I TOOK HIM TO STARBUCKS IN  
ADVANCE AND HE DRANK A TON OF  
COFFEE AND HE WENT ON A RANT

THAT I DON'T EVEN WANT TO --

**Leo:** HE DOES SEEM A LITTLE  
BIT OUT OF CONTROL ALREADY AND  
IT'S JUST THE BEGINNING OF THE PROGRAM.

[Laughs]

**Leo:** BUT AMBER ALWAYS  
MANAGES TO FIND A GRAFFITIED  
ALLEY SOMEWHERE TO DO THAT SHOW.  
I DON'T KNOW, I DON'T KNOW HOW  
YOU DO IT AMBER.

**Amber MacArthur:** IT'S A COMFORT LEVEL I THINK.  
I DON'T KNOW WHAT IT IS.

[Leo laughing]

**Leo:** ANYWAY SO, SO THIS,  
THIS IS YOU KNOW IT WILL PLAY MPEG 2S.  
IT'LL PLAY MPEG 1S.  
IN FACT IT'S THE ONLY IT'S THE  
FREE PLAYER THAT WILL PLAYBACK DVDS EVEN.  
THIS IS REMARKABLE.

**Amber MacArthur:** IT REALLY IS REMARKABLE.

[Pop captions up]

**Amber MacArthur:** AND I ACTUALLY I THINK THAT THAT'S  
PROBABLY MY FAVOURITE  
MEDIAPLAYER THAT'S CROSS  
PLATFORM AS WELL AND AS YOU  
MENTIONED IT'S COMPLETELY FREE.  
AND I, I WAS DOING A LITTLE  
RESEARCH ON A SITE CALLED  
DOWNLOADSQUAD.COM, WHICH HAS  
ALWAYS BEEN A FAVOURITE SITE OF MINE --

[Pop captions down]

**Leo:** YES.

**Amber MacArthur:** FOR FREE DOWNLOADS AND I CAME ACROSS

THIS OTHER MEDIAPLAYER CALLED  
KANTARIS MEDIAPLAYER.

AND IT SAID THIS IS SORT OF  
LIKE A VERSION ABOVE VLC.

SO IT'S ALMOST LIKE PIMPING OUT  
YOUR VLC PLAYER.

**Leo:** IT'S BEAUTIFUL.

SO THIS IS BASED ON VLC.

[Pop captions up]

**Amber MacArthur:** IT IS BASED ON VLC AND WHAT IT DOES THOUGH  
IT'S A LITTLE DIFFERENT THAN VLD.

IT ALSO PLAYS AUDIO FILES.

A BUNCH OF DIFFERENT AUDIO

FILES AND SO IT'S A LITTLE MORE ADVANCED.

[Pop captions down]

**Amber MacArthur:** BUT IT STILL DOES THE SAME VIDEO SIZE  
AS FAR AS PLAYING DIFFERENT  
TYPES OF VIDEOS AND NOT HAVING  
TO WORRY ABOUT CODEKS.

AND THE ONE THING THAT THEY  
SAID ON DOWNLOADSQUAD IS THAT  
THIS MAKES VLC PRETTY BECAUSE  
THERE'S ALL THESE NEAT  
VISUALIZATION TOOLS WITHIN THE  
PLAYER THAT ACTUALLY ALLOW YOU  
TO HAVE COOL KIND OF  
DIGITALIZATION AND, AND  
DIFFERENT SORT OF SPEEDS FOR  
THE PLAYER.

**Leo:** THIS FEELS A LOT MORE  
LIKE QUICKTIME ON THE MACINTOSH.  
IT'S EVEN GOT TRAILERS AND SO FORTH.  
IT'S PLAYING MUSIC FROM LAST FM

AND LOOK ITS GOT VISUALIZATIONS.

I MEAN THIS IS VERY, THIS IS  
REALLY AND THIS IS FREE?

**Amber MacArthur:** IT'S COMPLETELY FREE.

AND IT CAME OUT IN THE FALL AND  
I READ A GREAT ARTICLE ABOUT IT.  
IT WAS ACTUALLY CREATED BY A  
KID FROM HIS NAME IS CHRIS FROM SWEDEN.

**Leo:** OF COURSE AMBER LOVES SWEDEN.

**Amber MacArthur:** SHE LOVES SWEDEN.

AND HE CREATED IT BY HIMSELF.  
HE RUNS HIS OWN MEDIA COMPANY  
AND HE LIVED IN THE STATES FOR A WHILE.  
BUT IS NOW BACK IN SWEDEN AND  
HE CREATED KANTARIS AND HE'S  
DECIDED TO GIVE IT AWAY FOR  
FREE AND AS I MENTIONED ITS  
WINDOWS ONLY RIGHT NOW.  
BUT I ALSO READ ONLINE THAT  
BECAUSE ITS OPEN SOURCE THAT  
PEOPLE CAN ACTUALLY ACCESS THE CODE.  
AND SO THEY EXPECT THAT THEY'LL  
BE A MAC VERSION AS WELL AND A  
LINUX VERSION SOON ENOUGH.

**Leo:** THAT'S NEAT.

**Amber MacArthur:** AND THAT HE DID A REALLY SLICK JOB.

**Leo:** I WOULD SAY THIS IS THE  
BEST LAST FM PLAYER I'VE EVER SEEN.  
I MEAN IT'S GOT THE PLAYLIST HERE.  
IT'S GOT THE VISUALIZATIONS.  
AND THIS IS REALLY NICELY, IT  
EVEN HAS THE ALBUM ART AND STUFF.  
I MEAN IT'S REALLY NICELY DONE.

**Amber MacArthur:** THAT'S THE THING THAT I FIND TOO IS THAT WHAT HAPPENS IS THAT YOU KNOW THE BEST MEDIAPLAYER FROM ONE YEAR AGO YOU KNOW IS NOT NECESSARILY THAT GOOD ANYMORE.

**Leo:** RIGHT.

**Amber MacArthur:** BECAUSE SO MANY OF THESE SOFTWARE COMPANIES INTEGRATE TOOLS LIKE LAST FM, LIKE KANTARIS DID.

**Leo:** RIGHT.

**Amber MacArthur:** LIKE YOU REALLY ALMOST WANT TO LOOK AT YOU KNOW HEY WHAT'S OUT THERE? I MEAN VLC HAS LASTED FOR QUITE A WHILE AND IT'S, IT'S BEEN GREAT --

**Leo:** IT'S KIND OF A FUNKY USER INTERFACE THOUGH.

**Amber MacArthur:** YES IT IS A FUNKY --

**Leo:** YEAH.

**Amber MacArthur:** AND IT'S, IT'S NOT ALL THAT USER-FRIENDLY I THINK.

**Leo:** YEAH.

**Amber MacArthur:** IT JUST IT DOESN'T HAVE ANY APPEAL TO IT. IT'S JUST IT'S A VERY STANDARD KIND OF THING. YOU GO AND YOU PLAY YOUR VIDEOS AND YOU LEAVE.

YOU DON'T REALLY WANT TO HAVE IT ON YOUR SCREEN AND HAVE IT AS YOUR FIRST AND FOREMOST VIDEO PLAYER.

**Leo:** RIGHT.

**Amber MacArthur:** BUT WHAT I LOVE ABOUT KANTARIS IS THE WHOLE VIDEO AND AUDIO SIDE OF IT AS WELL AS IT, IT JUST LOOKS REALLY GOOD. AND IT'S JUST VERY USER-FRIENDLY.

**Leo:** WELL LET ME SHOW YOU  
SOMETHING CAUSE I, I HAVE A  
VIDEO PLAYER TOO THAT I JUST  
RECENTLY FOUND OUT ABOUT.  
PAUL THERAULT WHO DOES OUR  
WINDOWS WEEKLY PODCAST ON  
TWIT.TV TOLD ME ABOUT THIS  
PLAYER, ITS CALLED THE GOM, G-O-M PLAYER.  
I THINK IT COMES FROM CHINA.  
YOU CAN GO TO THE CHINESE SITE,  
GOMPLAYER.CN.  
RIGHT NOW GOMPLAYER.COM IS DOWN  
BUT I'M SURE IT'LL COME BACK.  
NOW I'M INSTALLING IT.  
LOOK AT ALL THE CONFIGURATION MODES.

[Pop captions up]

**Leo:** THE NORMAL MODE IS FINE  
IF YOU DON'T HAVE A FAST PC.  
BUT IF YOU HAVE A FAST PC YOU  
CAN CONFIGURE IT FOR HIGH  
QUALITY DISPLAYS WHICH LETS YOU  
CHOOSE DIRECTX9, HIGH QUALITY SUBTITLES.  
I CAN CHOOSE THE ASPECT RATIO  
AND HOW MANY AUDIO CHANNELS.  
THEY EVEN DO 5.1 OR SPITIF.  
THIS IS A FREE PLAYER.

[Pop captions down]

**Leo:** THESE ARE THE KINDS OF  
FILES IT WILL AUTOMATICALLY  
PLAY, THE FILE ASSOCIATIONS, THE  
DEFAULT FONT SIZE. I'M BLIND.  
I WANT TO SET IT UP FOR THE BIG SIZE.  
AH I CAN ALSO MAKE IT A HIGH

PRIORITY, WHICH WILL HELP WITH  
CHOPPY IMAGES.

THIS IS, THIS IS JUST THE CONFIGURATION.

LET'S LAUNCH THE GOMPLAYER RIGHT NOW.

YOU CAN SEE IT'S A BEAUTIFUL USER INTERFAE.

I, I HAVE TO SAY I'M, I'M VERY IMPRESSED.

LET'S, LET'S PLAY COMMANDN AND

SEE WHAT IT DOES WITH COMMANDN.

WHAT DO YOU SAY?

AH CLOSE THE GOMPLAYER AND THERE IT IS.

THERE IS AND I'LL GO FULL

SCREEN, SCREEN ON THIS.

OH I GUESS IT WON'T LET ME GO

FULL SCREEN CAUSE IT, BUT THERE

IS, THERE IS COMMAND N.

SO THIS IS ANOTHER PLAYER THAT

LOOKS VERY GOOD.

HAS MANY CODEKS BUILT INTO IT

SO IT'S GONNA HAVE THAT SAME

CAPABILITY OF PLAYING BACK

FILES YOU'VE NEVER HEARD OF OR

CAN'T FIGURE OUT HOW TO PLAY

EVEN IF MIKE LAZAZZERA IS ON IT.

**Amber MacArthur:** YOU KNOW

LEO ITS REALLY FUNNY CAUSE I'M

JUST LISTENING TO YOU TALK AND

BECAUSE I'M ON THE WEBCAM IT'S

REMINDING ME OF THE, LIKE THE,

THE SHOPPING CHANNEL, LIKE THE

TECH SHOPPING CHANNEL.

**Leo:** AND NOW!

[Both laughing]

**Amber:** I KNOW IT'S COMING SO

FAST AND YOU KNOW I'M LIKE YOU

CAN GET THESE KNIVES FOR 19.95.

**Leo:** BUT HERE'S THE BEAUTY OF IT.

IT'S FREE!

[Both talking at once]

**Leo:** WE DON'T HAVE TO CHARGE

YOU FOR IT.

WE'RE NOT MAKING ANY MONEY ON IT.

**Amber MacArthur:** I KNOW, I KNOW BUT YOU KNOW HEY AND IT'S

GONNA HELP SOMEONE OUT THERE I'M SURE.

**Leo:** ABSOLUTELY.

SO THERE ARE THREE GREAT

PLAYERS FOR YOU.

YOU CAN START WITH VLC.

EVERYBODY SHOULD HAVE THAT,

WINDOWS, MAC OR LINUX.

IF YOU'RE ON WINDOWS IS IT

KANTARIS IS THAT HOW YOU SAY IT?

**Amber MacArthur:** I'M SAYING

KANTARIS OR KANTARIS.

BUT I DON'T REALLY KNOW.

WE'VE GONE THROUGH THIS MANY TIMES.

THAT YOU NEVER KNOW HOW

ANYTHING IS PRONOUNCED.

**Leo:** NO ONE EVER PRONOUNCES

IT EXCEPT US RIGHT?

WE'RE THE ONLY ONES WHO

ACTUALLY SAY THESE THINGS OUT LOUD.

**Amber MacArthur:** EXACTLY AND WE, WE PROBABLY SCREW IT UP AT

LEAST A FAIR AMOUNT OF TIME.

**Leo:** BUT WE DEFINE IT, WE DEFINE IT.

AND THEN OF COURSE THE

GOMPLAYER, G-O-M, IF YOU GOOGLE

IT THERE ARE A LOT OF SITES  
WHERE YOU CAN DOWNLOAD.COM HAS  
IT, DOWNLOADSQUAD, SOFTPEDIA OR  
YOU COULD IF THE SITE IS BACK  
UP YOU COULD GO TO  
GOMPLAYER.COM.

IT'S DOWN RIGHT NOW FOR US.  
BUT THERE'S A BETTER SITE TO GO  
TO, THAT'S COMMANDN.TV.

**Amber MacArthur:** AH.

[Pop captions up]

**Leo:** WHERE YOU COULD SEE  
MIKEY LOSE IT CAUSE HE HAD TOO  
MUCH COFFEE.

**Amber MacArthur:** YEAH THEN THAT GUY NEEDS TO BE REELED IN.

**Leo:** I'D BETTER COME TO  
TORONTO AND HELP YOU OUT.

**Amber MacArthur:** WE NEED YOU BACK.

**Leo:** I THINK SO.

[Blank for boards]

**Leo:** IS AMBER'S BLOG OF  
COURSE AND SHE'S ALSO ON NET AT NIGHT.  
WE DO THAT EVERY WEEK EVERY  
WEDNESDAY ON TWIT.TV MY PODCAST NETWORK.  
IT'S ALWAYS A THRILL TO WORK  
WITH AMBER EVEN IF SHE'S BEHIND PLASTIC.  
THANKS AMBER.

**Amber MacArthur:** HEY LEO THANK YOU.

**Leo:** TAKE CARE.  
HAVE FUN IN FLORIDA.

**Amber MacArthur:** I WILL.

**Leo:** SHE LOOKS LIKE SHE'S A  
LITTLE COLDER HERE ON COMMANDN.

SHE'S ALL BUNDLED UP AGAINST  
THE SNOW.  
MORE OF YOUR CALLS COMING UP IN  
JUST A BIT, WE'LL BE BACK RIGHT  
AFTER THIS, STAY HERE.

[MUSIC]

[Pop captions down]

[Commercial break]

[MUSIC]

**Kate:** HI WELCOME BACK TO "THE LAB WITH LEO".  
I'M KATE ABRAHAM AND NOW ITS  
TIME FOR OUR TIP OF THE DAY.  
NOW TELL ME FOREIGN FILMS  
SHOULD THEY BE DUBBED OR SUBTITLED?  
WHAT ABOUT THE BEST EVER  
QUARTERBACK, WHO WOULD IT BE?  
SHOULD YOU CRY AT WORK?  
IS THAT ACCEPTABLE?  
IF THESE ARE TOPICS KEEP YOU  
AWAKE AT NIGHT I HAVE THE BEST  
WEBSITE FOR YOU, ITS CALLED BUZZDASH.COM.  
IT'S BASICALLY OPINION POLLS.

[Pop captions up]

**Kate:** SO WHAT YOU CAN DO IS  
JUST SURF INTO DIFFERENT TOPICS  
THERE FOR INSTANCE MOVIES AND  
WHAT I CAN DO IS READ THE  
QUESTION AND IF I AGREE WITH  
THEIR OPINIONS I CAN THEN JUST  
SELECT WHAT I AGREE WITH, CLICK  
ON THAT.

[Pop captions down]

**Kate:** AND THEN FROM THERE I

VOTED ONTO THE BUZZ BYTE.  
AND THE GREAT THING IS YOU CAN  
ACTUALLY EVEN CREATE YOUR OWN.  
SO IF I WANTED TO CREATE A  
SPORTS QUESTION FOR INSTANCE I  
COULD CREATE MY OWN SURVEY.

**Leo:** THIS IS REALLY FUN.  
THAT'S REALLY NEAT.

**Kate:** YEAH -- IT'S A  
COMPLETE WASTE OF TIME BUT IT'S  
ONE OF THOSE THINGS.  
YOU KNOW THAT LITTLE, LITTLE  
BUG IN THE FLESH THAT GETS IN  
YOUR MIND YOU KNOW LIKE OH WHAT  
IS IT?

**Leo:** I LIKE THAT.

**Kate:** BUZZDASH --

**Leo:** BY THE WAY SUBTITLED,  
JOE MONTANA AND ONLY IF THEY  
SPANK ME.

**Kate:** REALLY?

**Leo:** JUST SO YOU KNOW.

**Kate:** I WILL BEAR THE CRIME IN MIND.

[Laughs]

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

[Pop captions up]

**Kate:** ITS CALLED --

[Blank for boards]

**Leo:** BUZZDASH.COM.

**Kate:** YES.

**Leo:** VERY COOL, YOU CREATE  
YOUR OWN POLLS.

**Kate:** EXACTLY.

**Leo:** AND, AND PUBLIC OPINION SURVEYS.

**Kate:** MINDLESS INFORMATION.

**Leo:** I LIKE IT.

[Pop captions down]

**Kate:** JOE MONTANA THOUGH.

**Leo:** NOW SPEAKING OF  
MINDLESS I'M READY TO ANSWER  
ANOTHER CALL.

WHO YOU GOT?

**Kate:** WE ARE HEADING DOWN TO  
SYDNEY, NEW SOUTH WALES AND WE  
HAVE MICHAEL.

**Leo:** EXCELLENT THANK YOU.

**Kate:** THANK YOU.

**Leo:** HELLO MICHAEL.

**Michael:** GOOD DAY THERE LEO.

HOW YOU DOING BUDDY?

**Leo:** I'M FANTASTIC.

HOW ARE YOU TODAY?

**Michael:** AH CAN'T COMPLAIN MATE.

**Leo:** WHAT CAN I DO TO HELP YOU?

**Michael:** UM JUST I'M PRETTY  
GREEN WHEN IT COMES TO  
COMPUTERS SO I REALLY ENJOY  
WATCHING YOUR SHOW.

**Leo:** GOOD THANK YOU.

**Michael:** AND SEEING HOW MUCH  
THERE IS ACTUALLY TO LEARN.

**Leo:** YEAH WELL THAT'S WHAT  
WE'RE HERE FOR.  
WE REALLY WANT TO HELP YOU.

I, I, I BELIEVE IN TECHNOLOGY.

I LOVE WHAT IT CAN DO.

I THINK IT'S REALLY FUN AND INTERESTING AND VALUABLE. AND YOU'RE, YOU'RE EXACTLY THE KIND OF PERSON CAUSE I WANT TO HELP YOU GET INVOLVED IN ALL OF THIS.

**Michael:** YEAH IT'S ABSOLUTELY AWESOME.

**Leo:** GREAT.

**Michael:** I, I REALLY THANK YOU FOR YOUR TIME.

**Leo:** MY PLEASURE.

[Pop captions up]

**Michael:** UM THE PURPOSE OF MY CALL LEO IS JUST IN RELATION TO ONE OF THESE OLD IBOOKS.

**Leo:** AH LOOK AT THAT. THERE'S A MEMORY.

**Michael:** YEAH.

**Leo:** THAT'S THE, THAT'S THE ORIGINAL EDITION RIGHT?

**Michael:** YEAH I LOVE IT.

99 I THINK IT CAME OUT. ANYWAY IT'S RUNNING NOW I THINK AT THE MOMENT AND IT'S STILL RUNNING REALLY WELL.

UM HOWEVER I JUST GOT A BRAND NEW IMAC AND IT'S GOT LOTS OF STUFF I'D LIKE TO PUT ACROSS TO MY NEW PC SUCH AS PHOTOS, MUSIC, ETCETERA.

AT THE MOMENT I'M USING AN NSD CARD AND AN INSTANT --

**Leo:** RIGHT.

**Michael:** AND IT'S JUST A

LITTLE BIT SLOW.

I WAS WONDERING IF YOU HAD ANY  
OTHER OPTIONS?

[Pop captions down]

**Leo:** LET ME ASK YOU A COUPLE  
OF QUESTIONS.

I CAN'T REMEMBER.

NOW DID THESE, THESE, THESE  
ORIGINAL IMACS HAVE A FIREWIRE PORT?

**Michael:** I WOULDN'T HAVE A CLUE.

I JUST I --

**Leo:** SO LOOK ON THE SIDE  
WHERE THE USB PORT IS.

THERE'LL BE ONE THAT DOESN'T  
LOOK LIKE USB.

IT'LL HAVE A DIFFERENT LOGO ON IT.

IT ACTUALLY HAS THESE IT'S A,  
IT'S A DOT WITH RADIATING IT  
ALMOST LOOKS LIKE THE NUCLEAR LOGO.  
RADIATING SPIDE AH LITTLE SIDE THINGS.

UM IT'LL HAVE A THE, THE, THE  
PORT ITSELF IS SQUARE ON ONE  
END AND ROUND ON THE OTHER.

I HAVE A FEELING IT DOESN'T.

YOU KNOW I CAN GO TO  
LOWENDMAC.COM AND WE CAN FIND OUT.

[Pop captions up]

**Leo:** WE CAN DO A SEARCH OF  
THE, OF THE DIFFERENT MAC  
PROFILES AND I'LL TELL YOU.  
SO LET'S GO HERE TO IBOOKS AND  
LET'S SEE.

[Pop captions down]

**Leo:** IT WAS THE VERY FIRST

IBOOK WASN'T IT?

[Talking background]

**Leo:** LET'S GO WAY BACK, WAY

BACK IN TIME TO THE G3 CLAMSHELL.

I'M PRETTY SURE NOW OKAY THIS

IS WHERE THE CONFUSION IS.

THEY, THE FIRST ONES DID NOT

HAVE FIREWIRE BUT LATER ONES DID.

SO THAT'S THE PROBLEM IS I

CAN'T TELL IF YOURS DOESN'T.

SEE THEY MADE IT IBOOK FIREWIRE

SHORTLY AFTER THEY MADE THE ORIGINAL.

THEY REALIZED THEIR MISTAKE.

IF IT HAS FIREWIRE I'LL TELL

YOU A QUICK WAY TO FIND OUT.

REBOOT YOUR MACHINE, RESTART IT

RIGHT AND ON RESTARTING SHOW

HIM THIS WITH YOUR, WITH YOUR

LAPTOP SEAN.

SHOW, SHOW HIM SEAN'S KEYBOARD.

WHEN YOU RESTART I WANT YOU TO

PRESS AND HOLD THE T-KEY ON THE RESTART.

SO WHAT THAT WILL DO, HE'S

RESTARTING RIGHT NOW.

YOU WAIT TILL, WAIT TILL, WAIT

TILL THE SCREEN GOES BLANK

BEFORE THE BONG THOUGH YOU WANT

TO HOLD DOWN THE T AND SEE HOW

LONG THIS IS GONNA TAKE.

WE'LL SEE A FIREWIRE LOGO IF

IT'S, IF THERE IS A FIREWIRE PORT.

WHAT IT'S PUTTING IT INTO IS

SOMETHING CALLED TARGET DISK  
MODE, WHICH ACTUALLY TURNS THE  
LAPTOP INTO AN EXTERNAL HARD DRIVE.

SO ANYTHING THAT'S ON THAT  
LAPTOP YOU JUST PLUG IN THE  
FIREWIRE CABLE TO YOUR LAPTOP,  
TO YOUR DESKTOP OR WHATEVER  
YOUR NEW MAC IS AND YOU CAN  
COPY EVERYTHING OFF.

OKAY HERE IT GOES, IT'S  
RESTARTING SO IN A SECOND WE'LL  
SEE THAT TARGET DISK MODE ICON.  
YOU HAVE TO HOLD IT DOWN THE  
WHOLE TIME ITS STARTING UP  
UNTIL YOU SEE THAT TARGET DISK MODE.

THERE'S ACTUALLY A FEW KEYS YOU  
CAN USE WHEN YOU'RE RESTARTING  
YOUR MAC.

SEE THERE IT IS.

THAT AND THAT'S THE FIREWIRE  
LOGO I WAS TELLING YOU ABOUT.

IT'S GOT A CIRCLE WITH KIND OF  
RADIATING SPOKES, THREE  
RADIATING SPOKES, ONE SOLID,  
TWO DASHED.

NOW IF YOU DON'T HAVE THAT  
FIREWIRE LOGO THE NEXT BEST  
THING AND IT MIGHT BE SOMETHING  
YOU SHOULD DO ANYWAY IS BUY AN  
EXTERNAL HARD DRIVE.

THESE ARE REALLY GOOD FOR  
BACKUP, NOT VERY EXPENSIVE.  
YOU GET A USB EXTERNAL HARD DRIVE.

IT MIGHT COST YOU 80 BUCKS FOR  
160 GIGABYTES AND PROBABLY LESS.  
THEN WHAT YOU'LL DO IS YOU COPY  
EVERYTHING TO THE EXTERNAL HARD DRIVE.  
IT'S VERY FAST.  
YOU BRING IT OVER TO THE NEW  
COMPUTER, COPY IT OVER BUT  
YOU'RE NOT DONE.  
NOW YOU HAVE A BACKUP DEVICE.  
AND THAT'S WHAT, THAT'S WHY  
EVERYBODY SHOULD PROBABLY HAVE  
AN EXTERNAL USB HARD DRIVE.  
IT MAKES IT SO EASY TO BACKUP.  
SO THAT'S ANOTHER WAY TO GO.  
IF YOU HAVE THE FIREWIRE CABLE  
AND THE FIREWIRE PORT ON YOUR  
COMPUTER IT'S A VERY SIMPLE THING.  
JUST HOLD DOWN THE T-KEY AND REBOOT.  
IF YOU DON'T I'D SUGGEST AN  
EXTERNAL DRIVE OKAY?

**Michael:** I'LL BE GETTING THE  
EXTERNAL DRIVE LEO.

I REALLY APPRECIATE IT MATE.

**Leo:** YEAH I THINK IT'S THE  
BEST, YOU SHOULD HAVE ONE ANYWAY.  
IT'S A GREAT WAY TO BACKUP.

**Michael:** RIGHTEO LEO.

**Leo:** HEY THANKS SO MUCH FOR  
WATCHING THE SHOW AND YOUR VERY  
KIND WORDS.

I REALLY APPRECIATE IT MATE.

**Michael:** THANK YOU VERY MUCH  
LEO, ALL THE BEST.

**Leo:** TAKE CARE.

DID YOU SEE SEAN SNEAK OUT?  
HE WENT AROUND HERE HE WENT  
OVER HERE AND HE CAME OVER HERE.

**Sean Carruthers:** WHOA.

**Leo:** YOU USED TO BE OVER THERE.  
THANK YOU FOR HELPING US OUT  
WITH THE DEMONSTRATION.

IT'S TIME FOR SEAN'S SHINIES  
AND THIS ONE LOOKS LIKE A --

**Sean Carruthers:** IT'S AN INVISIBLE WATCH LEO.

**Leo:** INVISIBLE WATCH, WOW  
THAT'S AMAZING.

**Sean Carruthers:** ACTUALLY I'M --

**Leo:** WHAT IS IT REALLY?

**Sean Carruthers:** I'M WEARING THE WATCH ITSELF.

**Leo:** SO THIS IS JUST A, A SECOND ARMBAND?

**Sean Carruthers:** RIGHT.

SO THIS IS THE MIO MOTIVA AND  
NOT THE SAME AS THE, THE  
COMPANY THAT DOES GPS.

THIS IS A DIFFERENT ONE, THE  
MIO WATCH COMPANY.

**Leo:** OKAY.

**Sean Carruthers:** AND WHAT THIS IS IT'S A TRAINER  
BASICALLY.

SO IF YOU WANT TO KEEP TRACK OF  
YOUR CALORIES --

**Leo:** OH NEAT.

**Sean Carruthers:** AND YOUR EXERCISING AND YOU WANT TO --

[Pop captions up]

**Leo:** WILL IT ALSO TRACK YOUR  
HEARTRATE AND ALL THAT?

**Sean Carruthers:** IT WILL.

SO IT'S GOT TWO PRONGS HERE AND  
YOU JUST HOLD DOWN HERE AND  
IT'LL SAY TEST AND YOU HOLD IT  
DOWN UNTIL YOU MEASURE YOUR HEARTRATE.

[Pop captions down]

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

**Sean Carruthers:** AND IT SAY I AM AT 106 BEATS PER MINUTE.

**Leo:** THAT'S CAUSE WE MADE  
YOU RUN AROUND.

**Sean Carruthers:** THAT'S CAUSE I'VE BEEN RUNNING AROUND  
YEAH.

[Leo laughing]

**Sean Carruthers:** SO THAT'S, THAT'S YEAH.

**Leo:** THAT'S A REALLY COOL WATCH.  
HOW MUCH IS THAT?

[Pop captions up]

**Sean Carruthers:** IT'S \$100.  
IT'S NOT REALLY CHEAP.

**Leo:** THAT'S --

[Both talking at once]

**Sean Carruthers:** COMPARED TO OTHER WATCHES.

**Leo:** ALTHOUGH YOU SAY IT'S  
FAIRLY, IT'S MORE COMPACT THAN  
SOME RIGHT?

**Sean Carruthers:** IT'S MORE COMPACT THEN SOME OTHER ONES.  
YOU DON'T NEED THE, THE CHEST  
STRAP OBVIOUSLY FOR THIS.

**Leo:** OH I LIKE THAT.

**Sean Carruthers:** AND YOU CAN  
TURN, TURN OR TRACK ALL OF YOUR  
INTAKE AND OUTLAY FOR CALORIES.

**Leo:** WHAT'S THE NEGATIVE?

**Sean Carruthers:** AH A LOT OF BUTTON-PUSHING.

THAT'S ALL THREE OF THE POINTS  
HERE SO I MEAN YOU HAVE TO  
ENTER ALL OF YOUR MEALS MANUALLY.

**Leo:** RIGHT.

**Sean Carruthers:** JUST BEEP-BEEP-BEEP-BEEP.

**Leo:** THAT'S KIND OF ANNOYING.

**Sean Carruthers:** TO GET YOUR RATE, BEEP-BEEP-BEEP-BEEP.

**Leo:** YEAH.

**Sean Carruthers:** EVERY TIME YOU WANT TO MEASURE YOUR  
HEARTRATE AND YOU HOLD DOWN --

**Leo:** YEAH.

**Sean Carruthers:** IT'S JUST EVERYTHING YOU DO INVOLVES  
BUTTON-PUSHING.

SO IT'S NOT AUTOMATED.

**Leo:** IT'S ALSO I MEAN I HAVE  
TO SAY YOU LOOK A LITTLE DORKY  
WITH A BIG WATCH LIKE THAT.

[Pop captions down]

**Sean Carruthers:** YEAH IT IS A BIT BIG.

**Leo:** IS THAT STYLING OR DO  
YOU, DO YOU THINK THAT'S STYLING?  
WHAT DO YOU THINK KATE, STYLING OR DORKY?  
WHAT DO YOU THINK?

**Kate:** I WOULD SAY A BIG DORKY FACTOR.

**Leo:** OKAY.

[Laughs]

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

**Sean Carruthers:** YEAH.

**Leo:** ALL RIGHT NOW DO WE  
WANT TO TAKE A CALL NOW OR DO  
WE WANT TO TAKE A BREAK AND  
COME BACK?

LET'S TAKE ANOTHER CALL.

DO YOU HAVE ANOTHER ONE FOR US?

**Kate:** I DO INDEED.

WE HAVE --

**Leo:** WE'VE GOT TIME.

I LOVE IT WHEN WE GET TIME FOR  
ANOTHER CALL.

**Kate:** WE HAVE AL ON THE LINE  
FROM WINNIPEG MANITOBA.

**Leo:** GOOD DAY AL HOW ARE YOU TODAY?

**Al:** HEY HOW YOU DOING LEO?

**Leo:** I'M GREAT.

**Al:** LONG TIME NO SEE.

**Leo:** WHAT, WHAT LONG TIME NO SEE?  
I STILL DON'T SEE.

WHAT CAN I DO FOR YOU TODAY?

**Al:** OKAY WHAT IT WAS IS I  
WAS ON A WEBSITE ONLINE AND I  
WAS LOOKING AT WINDOWS VISTA ULTIMATE.

**Leo:** OKAY.

**Al:** THEY LISTED FOUR  
DIFFERENT VERSIONS OF IT.

**Leo:** YEAH.

[Laughs]

**Leo:** I'M SORRY, I SHOULDN'T LAUGH.

[Pop captions up]

**Al:** WELL THE FIRST ONE WAS A  
32 BIT PST OEM.

**Leo:** YEAH.

**Al:** THE SECOND WAS A 64 BIT --

**Leo:** YEAH.

**Al:** PST OEM.

THE THIRD ONE THEY LISTED WAS

AN UPGRADE DVD.

**Leo:** RIGHT.

**Al:** AND THEN THERE WAS ONE I  
GUESS YOU CAN CLASSIFY AS A  
FULL VERSION.

**Leo:** RIGHT.

**Al:** AND THEY ALL HAD DIFFERENT PRICES.

**Leo:** RIGHT.

[Pop captions down]

**Al:** ONE WAS 229 OR ONE WAS 243.

**Leo:** I'M GONNA TELL YOU A SECRET.

**Al:** OKAY.

**Leo:** I SHOULDN'T, I SHOULDN'T TELL YOU THIS.

MY FRIEND PAUL THERAULT HERE'S  
THE DEAL WITH WINDOWS VISTA.  
FIRST OF ALL THERE ARE ACTUALLY  
SEVEN DIFFERENT VERSIONS.  
THERE'S WINDOWS VISTA BASIC,  
WINDOWS VISTA HOME BASIC,  
WINDOWS VISTA PREMIUM HOME  
PREMIUM, WINDOWS VISTA B-  
BUSINESS BASIC, VISTA, VISTA PREMIUM.

[Pop captions up]

**Leo:** THERE'S VISTA-BA-DA-BA-  
DA AND THEN AND, AND THEN ALL  
OF THOSE ARE IN 16 OR 32 AND 64 BIT.  
STICK WITH THE 32 BIT.

THERE'S NO REAL ADVANTAGE TO  
THE 64 BIT AND IT CAN CAUSE  
COMPATIBILITY ISSUES WITH  
DRIVERS AND SOFTWARE.  
SO YOU KNOW VISTA'S BAD ENOUGH  
WITH COMPATIBILITY.

WHY MAKE IT WORSE?

STICK WITH THE 32 BIT.

NOW HERE'S THE KEY.

[Pop captions down]

**Leo:** NOW A LOT OF PEOPLE

DON'T UNDERSTAND THIS.

IN THE OLD DAYS OF WINDOWS YOU

COULD BUY THE UPGRADE IF YOU

HAD AN EARLIER VERSION OF

WINDOWS RIGHT?

SO LET'S SAY YOU'RE GOING TO

WINDOWS XP FROM WINDOWS 98.

YOU WOULD JUST YOU COULD ERASE,

YOU KNOW HAVE A BLANK HARD DRIVE.

YOU'D PUT IN THE WINDOWS

INSTALL DISK, XP INSTALL DISK

AND THEN AT SOME POINT IT WOULD

SAY OKAY I, I DON'T SEE WINDOWS

98 ON HERE SHOW ME THE DISK.

YOU'D, YOU'D PUT THE, THE 98

DISK IN PULL IT OUT AND YOU'D

BE DONE.

VISTA THEY CHANGED IT.

YOU CAN'T DO THAT ANYMORE.

YOU CANNOT USE THE VISTA

UPGRADE IN THEORY UNLESS YOU

ACTUALLY HAVE XP ALREADY

INSTALLED ON THE SYSTEM.

HOWEVER THIS DOESN'T MAKE ANY

SENSE BECAUSE VERY, VERY

FREQUENTLY WITH ANY OPERATING

SYSTEM BUT ESPECIALLY WITH

VISTA YOU WANT TO START OVER.

YOU WANT TO FORMAT THE DRIVE  
AND START OVER.

IF YOU HAVE AN UPGRADE VERSION  
YOU WON'T BE ABLE TO DO THAT.

YOU CAN NEVER FORMAT THE DRIVE  
AND START OVER.

WELL GUESS WHAT?

PAUL THERAULT AND BRIAN

LIVINGSTON OF WINDOWS SECRETS

FIGURED OUT THAT IN FACT YOU

CAN INSTALL THE UPGRADE EDITION

OF VISTA, WHICH IS A LOT LESS

EXPENSIVE THAN THE FULL VERSION

WITHOUT ANY PREVIOUS VERSION OF

WINDOWS AT ALL.

SO YOU NOTICE THERE'S A BIG

DIFFERENTIAL BETWEEN THE

WINDOWS VISTA ULTIMATE FULL AND

THE UPGRADE RIGHT?

**Al:** RIGHT THE, THE UPGRADE WAS 299.99.

[Pop captions up]

**Al:** THE FULL VERSION IS 463.99.

**Leo:** SO THAT'S A LOT OF DIFFERENCE.

**Al:** BUT ALSO THE FIRST ONE I

MENTIONED TO YOU THE 32 BIT PST

OEM IS EVEN CHEAPER.

IT'S AT \$230.

[Pop captions down]

**Leo:** YEAH NOW I, I IF YOU

GET IT FROM A REPUTABLE DEALER

THIS IS OKAY.

THE OEM VERSION IS INTENDED TO

BE SOLD WITH A COMPUTER.

AH THERE ARE UNREPUTABLE OR  
DISREPUTABLE DEALERS WHO WILL  
BUY WILL BE SELLING A COMPUTER.  
THEY STRIP OFF THE WINDOWS AND  
SELL IT SEPARATELY.  
THEY INSTALL IT SO SOMEBODY'S  
GOT THE VISTA AND THEN THEY  
RESELL THE PACKAGE, THE OEM  
PACKAGE INTENDED TO BE SOLD  
WITH THE COMPUTER.  
THIS IS VERY BAD BECAUSE WHAT  
HAPPENS IS THE, THE PERSON WHO  
BOUGHT THE COMPUTER ACTIVATES IT.  
YOU CAN NEVER INSTALL THE SECOND ONE.  
IF YOU'RE BUYING IT FROM  
SOMEBODY REPUTABLE LIKE NEW EGG  
YOU KNOW A WELL-KNOWN PLACE OKAY.  
BUT DON'T DO THAT ON EBAY  
BECAUSE YOU MIGHT END UP  
GETTING A VERSION OF VISTA YOU  
CAN NEVER INSTALL.

**Al:** -- THAT'S RIGHT.

**Leo:** YEAH.

NOW LET ME SHOW YOU THIS, THIS  
IS THE PAUL THERAULT OF  
WINSUPERSITE.COM.

[Pop captions up]

**Leo:** IT TURNS OUT YOU CAN  
BUY THE UPGRADE MEDIA WITHOUT  
EVER HAVING A VERSION OF WINDOWS.  
NOW I KNOW YOU'VE HAD PLENTY OF  
VERSIONS OF WINDOWS, SO IT'S  
ALMOST ALWAYS AN UPGRADE.

HOW MANY PEOPLE BUY VISTA  
WHO'VE NEVER BOUGHT A COPY OF  
WINDOWS IN THEIR LIFE?

[Pop captions down]

**Leo:** NOBODY.

SO I DON'T THINK THIS IS STEALING.  
MICROSOFT KNOWS ABOUT THIS.  
THEY HAVEN'T CHANGED IT.  
WHAT YOU DO IS YOU INSTALL  
VISTA BUT YOU DON'T ENTER A PRODUCT KEY.  
YOU'RE DOING THE TRIAL VERSION.  
SO YOU INSTALL VISTA AND YOU  
RUN IT AND YOU DON'T ENTER THE PRODUCT KEY.  
NOW YOU GO BACK AND YOU INSTALL IT AGAIN.  
THIS TIME VISTA SAYS OH HE'S  
ALREADY RUNNING A COPY OF WINDOWS.  
THIS IS AN UPGRADE.  
IT INSTALLS ON TOP OF IT AND  
YOU'VE GOT A COMPLETELY LEGIT  
COPY OF VISTA.  
BRIAN LIVINGSTON AND PAUL  
THERAULT FIGURED THIS OUT.  
HE HAS AN ARTICLE, HE HAS A  
PORT OF THE ARTICLE IT SAYS IS THIS LEGAL?  
HERE'S MY ATTITUDE.  
THIS AIN'T THE FIRST COPY OF  
WINDOWS YOU BOUGHT.  
OF COURSE IT'S AN UPGRADE.  
YOU JUST WANT TO BE ABLE TO  
INSTALL IT ON A BLANK HARD DRIVE.  
I THINK THIS IS A HUGE HOLE  
THAT MICROSOFT LEFT IN.  
ISN'T THAT FUNNY?

THEY NEVER FIXED IT.

I SAY USE IT.

SO MY RECOMMENDATION, DON'T BUY  
THE OEM VERSION UNLESS YOU KNOW  
IT'S AN ABSOLUTELY GOOD  
REPUTABLE DEALER.

BUT DO BUY THE UPGRADE VERSION  
EVEN IF YOU DON'T HAVE AN XP  
ALREADY INSTALLED ON A COMPUTER  
CAUSE YOU CAN USE THE UPGRADE  
ON ANY MACHINE.

SAVE A LITTLE BIT OF MONEY.

[Pop captions up]

**Leo:** COMING UP WILL IN JUST  
A BIT WILL KNOLL IS HERE AND  
WE'RE GONNA BUILD A WEBSERVER  
IN UNDERSTAND FIVE MINUTES.  
DO WE HAVE FIVE MINUTES FOR WILL?  
OH CAN WE MAKE IT FOUR MINUTES.  
WE'RE GONNA BUILD A WEBSERVE,  
NO WE'LL GIVE HIM FIVE MINUTES.  
WE'LL SHOW YOU HOW TO DO IT  
WHEN "THE LAB" CONTINUES.

YOU STAY RIGHT HERE.

OH, OH I FORGOT WE'VE GOT ONE  
MORE CHANCE TO TAKE OUR QUICK  
QUIZ QUESTION OF THE DAY.

WHAT, WHAT, WHAT VIDEO FORMAT  
DO THEY USE ON YOUTUBE?

DO YOU KNOW?

OH OF COURSE YOU DO.

WELL I'LL TELL YOU IF YOU DON'T  
OR EVEN IF YOU DO I'LL TELL YOU

THE ANSWER 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 FORMAT YOUTUBE USES FOR  
ITS VIDEO?

AND I REALLY I THINK IT REALLY  
POPULARIZED FLASH VIDEO ONE OF  
THE FIRST TO USE IT AND IT'S SO  
EASY BECAUSE EVERYBODY'S GOT,  
EVERY COMPUTER'S GOT FLASH.  
EVEN LINUX HAS FLASH BUILT INTO  
IT USUALLY.

[Pop captions down]

**Leo:** SO IT'S A, IT'S A  
SIMPLE THING, EVERYBODY CAN USE IT.  
I LIKE FLASH VIDEO.  
WILL KNOLL IS HERE.  
HE'S A SECURITY ANALYST AT  
CHEKMATE.ORG.  
A WELL-KNOWN SECURITY EXPERT  
FROM CALGARY AND HE'S HERE TO  
SHOW US A LITTLE UNIX MAN, A LITTLE UNIX.  
HEY WILL.

**Will Knoll:** HEY LEO.

**Leo:** GOOD TO HAVE YOU BACK.

**Will Knoll:** GOOD, THANKS TO  
HAVE ME BACK.

**Leo:** WE GAVE YOU, WE GAVE  
YOU A CHALLENGE.  
WE SAID CAN YOU, CAN YOU BUILD  
A WEBSERVER IN UNDER FIVE MINUTES?

**Will Knoll:** YES BUT YOU  
DIDN'T SPECIFY IF I HAD TO  
BUILD THE UNDERLYING UP OR JUST  
IN FIVE MINUTES FIRST.  
SO YES.

**Leo:** SO WE'LL START WITH AN EXISTING OS.

**Will Knoll:** WE YES AS LONG  
AS YOU'VE GOT IT INSTALLED AND  
YOU CAN TURN ON THE WEBSERVER  
IN ABOUT 12 SECONDS.  
NOW WHETHER OR NOT YOU WANT TO  
DO THAT THAT'S NOT GONNA BE SECURE.  
IT'S NOT GONNA BE TWEAKED OR  
ANYTHING LIKE THAT.

**Leo:** AH.

**Will Knoll:** SO --

**Leo:** SO YOU MIGHT WANT TO  
PLUG JUST CHANGE THE  
CONFIGURATIONS A LITTLE BIT.

**Will Knoll:** BUT THIS IS A  
GOOD WAY JUST TO EXPOSE TO  
PEOPLE JUST SOME OF THE  
UNDERLYING COMMANDS THAT YOU  
WOULD USE TO GET UP AND  
RUNNING.

**Leo:** RIGHT.  
NOW YOU'RE GONNA USE OPENBSD.

**Will Knoll:** YES.

**Leo:** AS OPPOSED TO LET'S SAY

THE LINUX, WHICH IS ANOTHER  
KIND OF FLAVOUR OF, OF OPEN SOURCE.  
OPENBSD IS WHAT RUNS ON OS X.  
IN FACT OS X COMES WITH APACHE,  
YOU EVEN GET THE WEBSERVER  
BUILT IN.

**Will Knoll:** YES WE'RE GONNA  
BE USING APACHE HERE.

**Leo:** YEAH, YEAH.

[Pop captions up]

**Will Knoll:** AND APACHE ISN'T  
THE ONLY OPEN SOURCE WEBSERVER  
YOU CAN USE.

THERE ARE NUMEROUS ONES OUT  
THERE, AH LIGHTAGETTP OR A  
WHOLE BUNCH OF OTHERS.

I CAN'T REMEMBER THE NAMES  
RIGHT NOW.

**Leo:** RIGHT TOMCAT, THERE'S  
TONS OF EM.

**Will Knoll:** YEAH.

**Leo:** THEY GO ON AND ON AND ON.  
BUT APACHE IS RUNNING PROBABLY  
MOST OF THE WEB.

[Both talking at once]

**Will Knoll:** -- YEAH.

**Leo:** BETWEEN APACHE AND  
MICROSOFT'S IIS --

**Will Knoll:** YEAH.

**Leo:** EVERYTHING IS RUNNING  
ONE OR THE OTHER.

**Will Knoll:** AND OPEN,  
OPENBSD IS ACTUALLY I BELIEVE

THE, THE HEAD DEVELOPER LIVES  
IN CALGARY THEO DURAT.

[Pop captions down]

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

**Will Knoll:** SO KIND OF YOU KNOW --

**Leo:** I DIDN'T KNOW THAT GOOD.

**Will Knoll:** I'M FROM CALGARY  
SO I'M BRINGING IT SO HERE'S OPEN BSD.

**Leo:** A LITTLE, A LITTLE  
CROSS TO OUR HOMEBOY THERE.

**Will Knoll:** YEAH.

**Leo:** ALL RIGHT.  
SO SHOW US WHAT WE'RE GONNA DO  
HERE TO TURN ON THE WEBSERVER.

**Will Knoll:** WELL THE SCREEN  
THAT WE'RE LOOKING AT RIGHT NOW  
THIS IS, THIS IS WHERE THINGS  
GET A LITTLE SCARY.

**Leo:** YOU'RE IN THE TERMINAL.

**Will Knoll:** WE'RE, WE'RE AT  
THE TERMINAL.  
WE'RE AT THE COMMAND LINE.  
THIS IS THE FIRST SCREEN THAT  
YOU SEE AFTER YOU'VE INSTALLED  
OPENBSD FOR THE FIRST TIME --

**Leo:** OKAY.

**Will Knoll:** AN EVERY DAY USER.  
AND WHAT WE'RE GONNA DO IS  
WE'RE JUST GONNA STEP THROUGH  
THE THREE PARTS OF THE WEBSERVER.

**Leo:** OKAY.

**Will Knoll:** THE THREE PARTS  
OF THE WEBSERVER ARE AS I LIKE

TO CALL IT DOCUMENTATION, WHICH  
OPENBSD IS REALLY WELL-KNOWN FOR.  
LOTS OF DOCUMENTATION,  
EVERYTHING'S DOCUMENTED.  
IT DOESN'T GO OUT THE DOOR  
UNTIL IT'S BEEN WRITTEN DOWN.  
THE OTHER PART OF IT IS THE  
WEBSERVER ITSELF AND THEN THE  
OTHER PART IS THE DOCUMENT THAT  
WE'RE GOING TO BE LOOKING AT OR  
THE, THE PAGE.

**Leo:** THE THING THAT, THE  
THING THAT THE PAGE THAT THE  
SERVER SERVES.

**Will Knoll:** YEAH WE'RE GONNA SHOW.

**Leo:** YOU GOT TO HAVE  
SOMETHING TO SERVE.

**Will Knoll:** SO EXACTLY.  
SO BACK OVER HERE IF WE BROWSE  
TO THE INTERNET ADDRESS OR THE  
IP ADDRESS THAT WE'VE ASSIGNED TO --

**Leo:** THIS IS YOUR COMPUTER.  
AIN'T NOTHING THERE.

**Will Knoll:** NOTHING THERE,  
NOTHING BEING SERVED ON.

**Leo:** WE NEED TO TURN ON A SERVER.

**Will Knoll:** SO WE GO BACK,  
WE GO BACK OVER HERE AND WE'RE  
GONNA TURN ON THE SERVER.  
ONE OF THE BASIC UNIX COMMANDS  
OR LINUX COMMANDS THAT YOU  
REALLY WANT TO GET STARTED WITH  
IS CALLED MAN.

AH MAN TERM IS MANUAL.  
IT BRINGS UP THE MANUAL FOR  
WHATEVER PC SOFTWARE YOU'RE  
GONNA RUN AND TODAY WE'RE GONNA  
RUN HTDP WHICH IS THE  
WEBSERVICE SERVICE, SO.

**Leo:** D STANDS FOR DEMON.

**Will Knoll:** FOR DEMON YEAH.

**Leo:** IT MEANS ITS RUNNING IN  
THE BACKGROUND.

**Will Knoll:** SO WE ENTER WHEN  
WE ENTER INTO THAT WE ARE  
GREETED WITH THIS MANUAL THAT  
HAS ALL THIS INFORMATION ABOUT  
WHERE THE CONFIGURATION IS HOW  
TO START IT AND WHAT NOT.

AH THE, THE KEY --

**Leo:** WOW.

**Will Knoll:** YEAH THERE'S A LOT OF --

**Leo:** YOU DON'T HAVE TO LEARN  
ALL THIS.

**Will Knoll:** WE DON'T.

BUT THE KEY THING IS THAT AT  
THE BOTTOM OF ALL THESE, OF ALL  
THESE MAN FILES THEY'RE GONNA  
SHOW US A LIST OF FILES THAT  
MIGHT BE USEFUL AND ALSO A LIST  
OF MANS THAT MIGHT USEFUL.  
THE IMPORTANT PIECE OF  
INFORMATION WE'RE GONNA PULL  
OUT OF THIS IS THAT THERE'S A  
FILE CALLED HTDP.COM WHICH IS  
THE CONFIGURATION FILE.

**Leo:** THAT'S THE KEY TO THE  
WHOLE KIT AND CABOODLE.

**Will Knoll:** THE KEY TO THE WHOLE THING.  
AND THEN THERE'S ALSO APACHE  
CONTROL WHICH IS WHAT WE'RE  
GOING TO USE TO TURN ON AND  
TURN OFF THE WEBSERVER.

**Leo:** THAT'S ACTUALLY KIND OF  
A LITTLE, A LITTLE PROGRAM.  
IT'S A LITTLE SCRIPT.

**Will Knoll:** A LITTLE SCRIPT, YEAH.

**Leo:** YEAH.

**Will Knoll:** BASICALLY.  
SO WHAT WE COULD DO IF WE  
WANTED TO IS WE COULD TAKE A  
LOOK AT THAT FILE BY TYPING IN  
VIAVARD.

**Leo:** V-I IS HIS EDITOR.

**Will Knoll:** CORRECT YEAH AND  
THE REASON I CHOSE VIZ NO  
MATTER UNIX OR LINUX OR BSD  
I'VE BEEN ON I'VE ALWAYS FOUND  
THAT VI IS THERE TO USE.

**Leo:** YEAH, YEAH.

**Will Knoll:** A, A LOT OF  
PEOPLE HAVE OTHER ONES THAT  
THEY LIKE TO USE.

**Leo:** LIKE EMAX OR PICO.

**Will Knoll:** YEAH.

**Leo:** THERE'S A WHOLE LOT OF  
EM BUT V-I IS --

**Will Knoll:** IT IS.

**Leo:** ONCE YOU LEARN V-I

YOU'RE KIND OF SET.

**Will Knoll:** YEAH YOU'VE GOT,  
YOU HAVE FOUNDATIONS EVERYTHING.

**Leo:** YEAH.

**Will Knoll:** SO AGAIN THE CONFIG FILE IS HUGE AND LONG AS  
WELL.

BUT IT'S A GREAT --

**Leo:** I'VE SPENT SO MANY HOURS --

**Will Knoll:** YEAH.

**Leo:** IN APACHE CONFIG, OH MY GOODNESS.

**Will Knoll:** YOU CAN LEARN SO  
MUCH BY READING THE CONFIG FILE.

**Leo:** AND YOU CAN FLAKE SO  
MUCH BY CHOOSING ONE LITTLE THING.

**Will Knoll:** OH YES, YES, YES, YES.

**Will Knoll:** SO THE NEXT COMMAND --

**Leo:** SO MAKE BY THE WAY MAKE  
A COPY BEFORE YOU MODIFY IT.

[Laughs]

**Will Knoll:** YES.

NOW WE'RE NOT GONNA MAKE ANY EDITS.

WE'RE JUST GONNA --

**Leo:** I ALWAYS FORGET TO DO THAT.

[Laughs]

**Will Knoll:** YEAH YOU GOT TO  
WATCH OUT FOR THAT SOMETIMES.

**Leo:** YEAH, YEAH.

**Will Knoll:** WE'RE GONNA,  
WE'RE GOING TO RUN IT JUST BASE  
OUT OF THE BOX SO WE'RE GONNA  
GET IT STARTED HERE BUT I --

**Leo:** IT COMES CONFIGURED  
READY TO RUN.

**Will Knoll:** READY TO ROLL, YEAH.

**Leo:** YEAH MAYBE NOT THE MOST SECURE.

[Both talking at once]

**Will Knoll:** ONE THING THAT  
WE HAVE TO DO THOUGH IS WE HAVE  
TO RUN IS WE HAVE TO RUN IT AS  
ROOT OR THE SUPER USER.

**Leo:** OKAY.

**Will Knoll:** SO I'M TYPING S-  
U WHICH STANDS FOR SUPER USER.

**Leo:** THESE ARE ALL COMMANDS  
YOU'RE GONNA USE AGAIN AND  
AGAIN AND AGAIN.

**Will Knoll:** AGAIN AND AGAIN  
ALL THE TIME.

**Leo:** NO MATTER WHAT YOU'RE  
DOING IN BSD OR LINUX.

**Will Knoll:** YEAH.  
SO ONCE I'VE TYPED IN THE  
PASSWORD IF I CAN GET IT RIGHT AH --

**Leo:** S-U SAYS I'M THE SUPER USER.

**Will Knoll:** I'M THE --

[Both talking at once]

**Leo:** AND NOW YOU ARE --

**Will Knoll:** YEAH.

**Leo:** THAT'S WHY THAT HASH  
SIGN'S THERE.

**Will Knoll:** RIGHT.

**Leo:** YOU ARE THE SUPER USER.

**Will Knoll:** JUST CHANGE TO  
THE POUND YEAH.

**Leo:** YEAH.

**Will Knoll:** AND THEN ONCE

I'M, ONCE I'M HERE I CAN NOW  
ACTUALLY TYPE IN APACHE  
CONTROL, WHICH IS THE LINE THE  
COMMAND THAT WE GOT OUT OF THE CONTROL.

**Leo:** THAT'S OUR LITTLE SCRIPT YEAH.

**Will Knoll:** AND THEN WE'RE  
GONNA TYPE IN START AFTER IT.  
AND WHEN WE DO THAT IT'S GONNA  
GIVE US A LITTLE MESSAGE THAT  
SAYS THAT THE WEBSERVER STARTED.

**Leo:** THAT'S IT.

**Will Knoll:** THAT'S IT.

**Leo:** YOU'RE RUNNING A WEBSERVER.

**Will Knoll:** IF WE GO BACK TO  
HERE AND WE REFRESH THE PAGE.

**Leo:** LOOK AT THAT IT WORKED.

**Will Knoll:** AND THE NEXT  
BEAUTIFUL THING ABOUT THIS IS  
THAT NOW THAT WE HAVE THIS  
WEBPAGE UP EVEN THOUGH THIS IS  
JUST THE, THE BASE STARTING POINT.  
THIS LINKS TO ME THE WEB  
FORMATTED MANUAL FOR OPENBSD SO  
I DON'T HAVE TO READ THROUGH  
ALL THE --

**Leo:** SO YOU CAN ACTUALLY  
LEARN MORE RIGHT NOW.

**Will Knoll:** YEAH WE CAN JUST  
START CLICKING THROUGH.  
WE CAN FIND OUT --

[Both talking at once]

**Leo:** NOW WE HAVE 30 SECONDS MORE.

**Will Knoll:** MODSSL.

**Leo:** YOU DID IT IN UNDER FIVE MINUTES.

**Will Knoll:** THERE'S ONE OTHER THING I --

**Leo:** YOU WANT TO ACTUALLY  
CHANGE THAT PAGE?

**Will Knoll:** LET'S SEE IF WE  
CAN DO THIS.

IT'S VI-DUB-DUB-DUB HTDOC.  
THIS IS WHERE VI --

**Leo:** YOU LEFT OUT ONE T.

**Will Knoll:** AH DID I?

**Leo:** YEAH.

**Will Knoll:** CHANGE DIRECTORY HTDOCS.  
AH --

**Leo:** NO YOU GOT --

**Will Knoll:** AH HT AH --

**Leo:** NO IT'S OKAY, EW, EW  
HE'S COPYING THE INDEX .HTML.

[Both talking at once]

**Will Knoll:** YES .ORG SO THAT  
I DON'T LOSE IT.

**Leo:** YEAH.

**Will Knoll:** AND THEN I'M  
GONNA VI INDEX TO HTML.

**Leo:** THIS IS THE PAGE THAT  
IS LOADED.

**Will Knoll:** AND WE'RE GONNA  
INSERT AH --

**Leo:** JUST WRITE HELLO.

[Laughs]

**Will Knoll:** HELLO, "LAB WITH LEO".

**Leo:** OH LET'S SEE WHAT HAPPENS.  
HE'S GOT TO SAVE IT.

**Will Knoll:** SAVE IT AND THEN WE CLICK --

[Both talking at once]

**Leo:** NOW LET'S GO BACK TO  
OUR BROWSER READY REFRESH.

DID IT WORK?

YES WE HAVE A WEBSITE.

**Will Knoll:** THERE WE GO.

**Leo:** NOT A GREAT WEBSITE BUT  
THAT WAS PRETTY GOOD.

FIVE MINUTES, 30 SECONDS

CONGRATULATIONS.

WILL KNOLL IS AT --

[Pop captions up]

[Blank for boards]

**Leo:** HE'S A SECURITY ANALYST.

IT'S A GREAT PLACE IF YOU'RE  
INTO SECURITY TO MEET OTHER

SECURITY PROS AND --

**Will Knoll:** IT'S A GREAT PLACE TO START.

**Leo:** AND EXCHANGE

INFORMATION, C-H-E-K NO C, M-A-T-E.ORG.

THANK YOU SO MUCH FOR JOINING US.

**Will Knoll:** THANKS FOR HAVING ME.

**Leo:** THIS IS A WONDERFUL

THING TO LEARN AND PLAY WITH

AND YOU'RE GONNA SPEND MORE

TIME I'M SURE IF YOU EVER DO A

WEBSERVER THAN THAT.

[Pop captions down]

**Will Knoll:** YES.

**Leo:** BELIEVE YOU ME.

A FINAL WORD COMING UP RIGHT

AFTER THIS.

STAY RIGHT HERE.

[MUSIC]

[Commercial break]

[MUSIC]

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

I DON'T KNOW I JUST HAVE A  
FEELING I'M JUST THINKING WHAT  
YOU NEED YOUNG LADY IS A NICE,  
THICK STEAK RIGHT ABOUT NOW.

[Pop captions up]

**Kate:** I WOULD LOVE A NICE  
THICK STEAK.

**Leo:** ALL RIGHT WE'RE ALL  
GONNA GO OUT TO HAVE A NICE  
THICK STEAK DINNER.

**Kate:** YEAH ABSOLUTELY.

**Leo:** YEP I HOPE YOU HAVE A  
LOVELY DINNER.

[Pop captions down]

**Leo:** I HOPE YOU'RE WATCHING  
THIS AT DINNERTIME.  
IF IT'S BREAKFAST TIME WELL  
DON'T HAVE DINNER.

**Kate:** HAVE A LOVELY STEAK.

**Leo:** I SAW A MOVIE THE OTHER  
DAY WHERE MOM CAME TO HER  
UPSTAIRS TO HER KIDS AND SAID  
IT'S YOUR FAVOURITE BREAKFAST  
FOR DINNER.

DO YOU EVER DO THAT BREAKFAST  
FOR DINNER?

**Kate:** COLD PIZZA ACTUALLY ON  
A SUNDAY MORNING'S NOT BAD LEO.

**Leo:** THAT'S NOT BAD.

[Pop captions up]

**Leo:** BUT I'M TALKING ABOUT  
YOU HAVE YOUR DINNER IS FRIED  
EGGS, BACON, TOAST.

I LIKE THAT.

YOU WANT A STEAK THOUGH?

**Kate:** I WOULD LIKE A STEAK PLEASE.

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

[Laughs]

**Leo:** YOU SURE YOU DON'T WANT  
FRIED EGGS?

**Kate:** AH ON TOP.

**Leo:** ALL RIGHT.

HEY WE THANK YOU SO MUCH FOR  
BEING HERE.

WE COULDN'T DO THIS SHOW  
WITHOUT YOU.

IT'S YOUR PARTICIPATION THAT  
MAKES IT HAPPEN.

HOW DO THEY GET ON THE SHOW?

**Kate:** LABWITHLEO.COM FORWARD  
SLASH TECH QUESTIONS.

SUBMIT YOUR QUESTION THERE,  
WE'LL PHONE YOU, WE'LL GET YOU  
ON THE SHOW AND ANY PROBLEM  
WILL BE SOLVED BY THIS MAN.

[Pop captions down]

**Leo:** AND IF NOT WE'LL BUY  
YOU A STEAK.

**Kate:** INDEED.

**Leo:** NO WE WON'T, BYE-BYE.

**Kate:** BYE-BYE.

[MUSIC]

[Coins bouncing]

[MUSIC]

[Pop captions up quickly]

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[Pop captions down]