

[Pop captions up]

**Alex Lindsay:** HEY, THIS IS  
ALEX LINDSAY AND I'M GOING TO  
SHOW YOU HOW TO TAKE ADVANTAGE  
OF YOUR CAMERA'S ISO TO TAKE  
PHOTOS IN THE DARK.  
RIGHT HERE ON "THE LAB"  
WITH LEO LAPORTE.

[Pop captions down]

[Theme music playing]

[Pop captions up]

**Leo:** HEY, HOW ARE YOU?  
IT'S GOOD TO SEE YOU.  
AND WELCOME.  
IT'S TIME FOR "THE LAB."  
I'M LEO LAPORTE.  
THIS IS THE SHOW WHERE WE  
EXPLAIN HOW TECHNOLOGY WORKS.  
WE SHOW YOU HOW TO BUY IT, HOW  
TO USE IT ONCE YOU'VE BOUGHT IT  
WHAT TO DO IT WITH IT, YOU  
KNOW, BECAUSE I THINK A LOT OF  
TIMES PEOPLE BUY EXPENSIVE TECHNOLOGY--

**Kate:** USE LIKE 1% OF IT.

**Leo:** THEY HAVE NO IDEA WHAT  
TO DO WITH IT.  
LADIES AND GENTLEMEN, KATE ABRAHAM.

**Kate:** HELLO.

**Leo:** I LIKE YOUR SHRUG.

**Kate:** THANK YOU.

I CAN TELL YOU ABOUT SHRUGS.

THIS IS A SHRUG.

**Leo:** I JUST LEARNED WHAT A  
SHRUG IS IT'S LIKE A SHRUNK SWEATER.

**Kate:** LIKE A MICRO CARDIGAN.

**Leo:** IT'S A TINY SWEATER.

**Kate:** YES.

[Pop captions down]

**Kate:** IT HAS NO PURPOSE  
APART THAT IT LOOKS QUITE NICE.

**Leo:** IT'S CUTE, ACTUALLY, YEAH.

I REALLY LIKE IT.

IT'S LIKE A LITTLE MINI CAPE.

YOU THINK CAPES WILL COME BACK?

**Kate:** PONCHOS DID.

**Leo:** PONCHOS DID.

**Kate:** PONCHOS CAME BACK  
ABOUT A COUPLE OF YEARS AGO.

**Leo:** MY GREAT HUMILIATION IN  
HIGH SCHOOL MY MOM WAS A WEAVER  
AND ALWAYS HAD TO WEAR A WOVEN,  
A HAND WOVEN PONCHO IN HIGH SCHOOL.

**Kate:** SEE NOW THAT WOULD BE FUNKY.

**Leo:** NOW IT'D BE FUNKY, THEN  
IT WAS THE 70s IT WAS FUNKY BUT  
IT WAS STILL A LITTLE I DON'T KNOW.

[Sighing]

YOU SEE THAT'S REALLY BEEN THE  
STORY OF MY LIFE IS I'VE BEEN A GEEK SINCE--

**Kate:** THAT'S WHY.

IT'S THAT PONCHO.

**Leo:** MY KIDS LOOK AT  
PICTURES OF ME IN HIGH SCHOOL  
AND THEY GO DAD, YOU WERE SUCH A GEEK.  
WERE YOU ON THE MATH TEAM?  
AND I SAID NO, I WAS ON THE CHESS TEAM.  
AND THEY GO OH, YOU WERE SUCH A GEEK.  
ALL RIGHT, THIS IS A SHOW FOR  
GEEKS AND NON-GEEKS ALIKE.  
I'M THE GEEK YOU DON'T HAVE TO BE.  
I'LL EXPLAIN ALL OF THIS STUFF.  
WE'RE AT EPISODE 174 ALEX  
LINDSAY IS GOING TO SHOW YOU  
HOW A SIMPLE SETTING ON YOUR  
CAMERA CAN REALLY IMPROVE LOW  
LIGHT PERFORMANCE AS HE SAID  
TAKE PICTURES IN THE DARK.

**Kate:** OKAY.

**Leo:** JACOB TRAN IS BACK HE  
TEACHES KIDS HOW TO PROGRAM  
VIDEO GAMES.  
HE'S GOING TO SHOW SOMETHING HE  
CALLS GENERATIVE ART USING FLASH.

**Kate:** OKAY.

**Leo:** ACTUALLY, REALLY COOL STUFF.  
RICK YAEGER IS GOING TO SHOW  
YOU HOW TO BECOME AN INVISIBLE MAN.  
THAT'S WHAT I SHOULD'VE HAD.  
I COULD'VE JUST BEEN A GUY  
FLOATING IN A PONCHO.

**Kate:** A FLOATING PONCHO.  
THAT WOULD BE LOVELY.

**Leo:** A LITTLE PHOTOSHOP  
MAGIC COMING UP BUT THE MOST

IMPORTANT PART OF OUR SHOW IS  
YOU OUR CALLERS.

LET'S GET OUR FIRST CALLER ON.

**Kate:** WE HAVE A LOVELY  
CALLER ON THE LINE.

WE HAVE KIM FROM PRINCE RUPERT  
IN B.C. AND SHE'S ASKING A  
QUESTION ABOUT HOW TO PLOT THE  
JOURNEY OF HER PREGNANCY ONLINE.

**Leo:** OH.

HI, KIM, THANK YOU, KATE.

HOW ARE YOU TODAY?

[Pop captions up]

**Kim:** "I'M DOING GOOD HOW ARE YOU?"

**Leo:** I AM GREAT.

SO YOU'RE HAVING A BABY?

**Kim:** "YES, OUR FIRST."

**Leo:** OH, CONGRATULATIONS.

IT'S SO EXCITING.

**Kim:** "I KNOW."

**Leo:** WHEN ARE YOU DUE?

**Kim:** "AUGUST 10th."

**Leo:** OH, YOU'VE GOT A LITTLE TIME.

**Kim:** "YEAH, A LITTLE TIME."

**Leo:** SO YOU WOULD LIKE NOW  
TO KIND OF PLAN AHEAD FOR  
PUTTING BABY PICTURES ONLINE  
THAT KIND OF THING?

[Pop captions down]

**Kim:** "YES, AND I'D ALSO LIKE TO PLOT MY  
PREGNANCY MOST OF MY  
RELATIVES LIVE IN ONTARIO."

**Leo:** OH, YEAH.

**Kim:** "SO IT'D BE NICE FOR THEM TO BE ABLE TO  
SORT OF KEEP UP WITH HOW I'M DOING--"

**Leo:** OH, YEAH.

**Kim:** "HOW BIG I'M GETTING AND STUFF."

**Leo:** IN FACT, YOU KNOW, I  
SEE THESE ALL THE TIME ON  
FLICKR WHERE PEOPLE WILL  
DOCUMENT SOMETIMES EVEN AS A  
MOVIE OUT A SUCCESSION OF  
STILLS DOCUMENT THE PREGNANCY  
AND THEN THEY START TAKING  
PICTURES OF THEIR KID EVERY  
YEAR AND THEN THEY CAN SEE THE  
KID GROWING UP.  
AND I THINK BOY, I WISH I  
PLANNED AHEAD.

**Kim:** "MM-HMM."

**Leo:** BUT BY NOW IT'S OVER.  
IT'S OVER.  
SO I'M GLAD YOU'RE THINKING  
ABOUT THIS NOW.  
YOU KNOW, WE HAVE SOMEBODY HERE  
WHO'S A PROUD PAPA.  
BRAND NEW BABY.  
HOW OLD IS -- IS IT MALAKHI?

**Alex Lindsay:** HE'S EIGHT WEEKS.

**Leo:** EIGHT WEEKS OLD.

**Alex Lindsay:** YEAH.

**Leo:** WE'VE GOT UH, THE WORLD  
FAMOUS ALEX LINDSAY IS HERE AND  
YOU KNOW, ALEX IS LIKE Mr. CONTENT.  
HE'S A PHOTOGRAPHER I IMAGINE  
HE'S FOUND SOME PRETTY GOOD

WAYS OF SHARING PICTURES OF MALAKHI.

**Alex Lindsay:** THE UH--

**Leo:** IS IT MALAKHI OR "MALAKHI?"

**Alex Lindsay:** IT'S MALAKHI.

**Leo:** MALAKHI, OKAY.

[Pop captions up]

**Alex Lindsay:** AND THE WAY

THAT I DO IT I HAVE TO ADMIT

I'M NOT A BIG WEB GUY.

YOU KNOW, I TAKE LOTS OF PHOTOS.

**Leo:** YOU DON'T REALLY WANNA

BE DOING A WEBSITE.

**Alex Lindsay:** SO I USED --

IT DEPENDS ON WHAT APPLICATION

YOU'RE USING.

MY BROTHER USES FLICKR FOR A

LOT OF HIS STUFF.

[Pop captions down]

**Leo:** FLICKR'S A GREAT CHOICE.

**Alex Lindsay:** I USE IWEB.

YOU KNOW, I JUST SIMPLY--

**Leo:** SO I COULD GO ONLINE

AND LOOK AT A WEBSITE FOR IWEB?

**Alex Lindsay:** WELL, YEAH.

SO MINE YOU KNOW, MINE'S I

THINK [web.mac.com/alexlindsay](http://web.mac.com/alexlindsay).

AND THAT IS UH, I'M IN IPHOTO

AND I JUST SAY I WANNA PUT THIS

STUFF ON THE WEB PAGE AND

LITERALLY I JUST SELECT A GROUP

OF PHOTOS AND IT CREATES AN RSS FEED.

**Leo:** ISN'T THIS GREAT?

**Alex Lindsay:** AND SO WHAT

HAPPENS IS THIS RSS FEED NOW  
ANYTIME I ADD SOMETHING TO THAT  
FOLDER IT AUTOMATICALLY ADDS  
THAT TO IWEB SO PEOPLE WHO ARE  
GOING TO THAT PAGE YOU'LL SEE  
MY UPDATING--

**Leo:** IT'S AUTOMATIC.

**Alex Lindsay:** IT'S AUTOMATIC.

SO I DON'T HAVE TO DO ANYTHING  
TO HAVE THAT UPDATED WHILE I'M  
WORKING IN IPHOTO.

**Leo:** AND THEY CAN SUBSCRIBE  
TO IT SO THEY AUTOMATICALLY GET  
THE UPDATED PHOTOS.

IT'S TAKING A LITTLE WHILE TO  
READ THIS BECAUSE THE FILES ARE  
FAIRLY LARGE.

NOW IN ORDER FOR THIS TO WORK  
YOU HAVE TO BE A MAC USER.

ARE YOU A MAC USER?

**Kim:** "NO."

**Leo:** YOU'RE NOT, KIM, OKAY.

**Alex Lindsay:** SO THE OTHER  
ONE IS LIKE FLICKR HAS A LOT OF  
AUTO UPLOADERS.

**Leo:** YEAH.

**Alex Lindsay:** SO YOU CAN  
HAVE APPLICATIONS THAT WILL  
UPLOAD TO FLICKR SAME THING.  
YOU CAN HAVE PEOPLE SUBSCRIBE  
TO IT, THEY CAN GO TO THE PAGE.  
YOU CAN BE UPDATING THOSE  
THINGS AND MY BROTHER USES THAT

A LOT AND HE'S REALLY HAPPY WITH IT.

**Leo:** I'M GONNA SAY A COUPLE OF THINGS THAT WORK WELL IN WINDOWS ONE IS WINDOWS LIVE. UH, WHICH IS MICROSOFT'S NEW UH, KIND OF UM, EXPERIMENTAL PAGES. IF YOU GO TO [live.com](http://live.com) THEY HAVE PHOTOSHARING UP THERE AND THAT'S VERY SIMILAR WHAT ALEX JUST DESCRIBED WHERE YOU CAN UPLOAD STUFF TO THAT AND IT CAN BE SEEN EVERYWHERE.

ALSO THERE'S A GREAT PROGRAM AND I THINK THIS MIGHT BE THE ONE THAT I'D RECOMMEND IT'S ABSOLUTELY FREE FROM GOOGLE AND IT'S CALLED PICASA.

[Pop captions up]

**Leo:** NOW ONE OF THE NICE THINGS ABOUT PICASA IS THAT IT'S A PHOTO ALBUM PROGRAM SO AS YOU TAKE PICTURES YOU PUT THEM ON YOUR PC YOU'LL ORGANISE THEM WITH PICASA BUT YOU CAN ALSO SHARE THEM WITH OTHERS THROUGH EMAIL, PRINTS AND ON THE WEB. AND THAT'S ONE OF THE NICE THINGS ABOUT PICASA THIS IS ABSOLUTELY FREE AND WHAT YOU CAN DO IS VERY SIMILAR WHAT ALEX IS TALKING ABOUT.

[Pop captions down]

**Leo:** WHICH IS CREATE ALBUMS  
THAT YOU CAN SHARE PRIVATELY  
WHICH I THINK SOMETIMES IS WHAT  
YOU WANNA DO YOU DON'T WANT  
EVERYBODY TO SEE THESE PICTURES  
BUT YOU CAN ALSO SHARE THEM  
PUBLICLY IF YOU WANT.

**Kim:** "OKAY."

**Leo:** ANOTHER THING A LOT OF  
PEOPLE DO IS THEY CREATE BLOGS.  
DO YOU HAVE ANY INCLINATION TO  
DO SOMETHING LIKE THAT?

**Kim:** "I WAS -- I WAS THINKING ABOUT BLOGS"  
TOO, YEAH."

**Leo:** MY GOOD FRIEND MEGAN  
MORRONE WHO HAS TWIN BOYS AND A  
FOUR YEAR OLD DAUGHTER UH,  
STARTED A MOMMY BLOG CALLED  
JUMPING MONKEYS AND ORIGINALLY  
IT WAS ABOUT TO TRACK HER  
PREGNANCY AND SHARE IT WITH HER  
FRIENDS AND FAMILY UM, IT THEN  
BECAME ABOUT PHOTOS AND NOW  
SHE'S A MOMMY SHE'S ACTUALLY IS  
MAKING IT MORE PUBLIC IT'S A  
WAY FOR HER SHARING YOU KNOW,  
HER EXPERIENCES AND WHAT'S GOING ON.  
SO A BLOG IS ANOTHER GREAT WAY  
LOTS OF PICTURES YOU'LL FIND ON  
HERE AND YOU CAN SEE SHE'S GOT  
-- SHE'S GOT PHOTO SHARING THIS  
IS CALLED PICTO BROWSER.

[Pop captions up]

**Leo:** SO YOU CAN -- SHE CAN  
JUST EMBED THIS INTO THE BLOG  
AND YOU CAN LOOK AT PICTURES OF  
THE KIDS WHICH IS GREAT.  
A BLOG TAKES A LITTLE MORE  
EFFORT THAN DOING IT YOURSELF  
UH, IF YOU'RE GOING TO DO A  
BLOG THERE'S TWO SITES I REALLY LIKE.  
ONE IS VOX. [Vox.com](http://Vox.com)  
VOX IS VERY SIMPLE.  
SO IF YOU DON'T WANT TO START  
TO THINK ABOUT ALL THIS VOX  
MAKES IT EASY TO UPLOAD MOVIES  
AND PICTURES IT'S A FREE  
BLOGGING SYSTEM SO IT'S A VERY  
SIMPLE SYSTEM TO USE AND IT HAS  
PRIVACY LEVELS WHICH I THINK  
ARE VERY IMPORTANT.  
YOU CAN HAVE PUBLIC, FRIENDS OR  
FAMILY WHICH MEANS YOU CAN HAVE  
THE MOST PRIVATE PICTURES, YOU  
KNOW, THE PICTURES OF THE BIRTH  
THINGS THAT YOU JUST WANT  
FAMILY TO SEE YOU CAN LOCK  
THOSE DOWN.  
SO VOX IS REALLY GOOD FOR FREE  
BLOGGING AND I THINK IS GOING  
TO GIVE YOU ALL THE TOOLS YOU WANT.  
THIS IS FOR SOMEBODY WHO  
DOESN'T WANT TO YOU KNOW I  
DON'T WANNA THINK ABOUT IT.  
I JUST WANT TO UPLOAD PICTURES.  
I WANT TO UPLOAD VIDEOS.

**Kim:** "I'LL PROBABLY BUSY ENOUGH WHEN THE BABY ARRIVES."

**Leo:** YOU WILL BE UH, AND I'VE TOLD A NUMBER OF NEW PARENTS ABOUT VOX AND THEY SEEM TO BE VERY HAPPY WITH IT. THE ONLY NEGATIVE ABOUT VOX THE ONLY THING I'M NOT CRAZY ABOUT WITH VOX IS EVERYTHING IS STORED ON THEIR SERVERS. NOW THAT'S GOOD BECAUSE YOU DON'T HAVE TO HAVE A SERVER, YOU DON'T HAVE TO PAY FOR A SERVER IT'S ALL FREE YOU KNOW, THERE'S SOME ADS BUT YOU KNOW, THEY'RE SUBTLE ADS YOU CAN SEE HERE THERE'S A NET FLICKS AD HERE AT THE TOP. IT'S VERY SUBTLE LIKE THAT THEY'RE ALL FREE BUT YOU KNOW, IT'S ALL ON THEIR SERVER BUT YOU WANT TO MAKE SURE YOU KEEP COPIES LOCALLY AND DO BACKUPS BECAUSE IT'S A LITTLE HARD TO MOVE IT OFF THEIR SERVER IF YOU DECIDE YOU WANNA GO SOMEWHERE ELSE. I THINK VOX IS A VERY GOOD CHOICE.

**Kim:** "I'LL HAVE TO DUPLICATE ALL THE PHOTOS."

**Leo:** YEAH. I MEAN, YOU KNOW, THESE GUYS ARE GREAT THEY'RE GONNA BE AROUND FOR A LONG TIME IT'S UH, IT'S YOU KNOW, I KNOW THEM.

I REALLY LIKE WHAT THEY DO AND  
I THINK THEY DO A GREAT JOB.  
SO IF YOU DON'T WANNA GO YOU  
KNOW PICASA WOULD BE A GOOD  
THING IF YOU WANTED TO KIND OF  
HAD LOCAL ALBUMS AND THEN YOU  
SHARED IT ON THE WEB AND IT'S  
JUST PHOTOS IF YOU WANNA DO  
MORE LIKE WRITE, PUT VIDEOS UP  
YOU KNOW, KIND OF SHARE MORE OF  
WHAT'S GOING ON I THINK VOX IS  
A REALLY GOOD CHOICE AND WHAT  
YOU SHOULD DO IS START IT NOW.

**Kim:** "YES."

**Leo:** SAY YOU KNOW, I'M IN MY  
SECOND TRIMESTER AND HERE'S HOW  
IT'S GOING.

YOU CAN UPLOAD PICTURES OF THE  
SONOGRAMS YOU KNOW, AND YOU  
COULD TELL YOUR FAMILY ABOUT IT  
NOW TO COMMENT ON IT THEY HAVE  
TO JOIN VOX.

IT'S FREE FOR THEM TO DO SO BUT  
IT IS MORE STEP FOR THEM TO GO  
THROUGH IF THEY WANNA COMMENT  
BUT THAT'S HOW THEY KEEP STUFF PRIVATE.

**Kim:** "OKAY."

**Leo:** AND I THINK THAT THAT'S  
PROBABLY A GOOD THING.

**Kim:** "THAT WOULD BE GREAT."

**Leo:** I THINK THIS IS  
PROBABLY YOU KNOW OF ALL OF  
THEM THE MOST COMPLETE

SOLUTION, THE EASIEST TO USE.

**Kim:** "AND I WAS THINKING OF MAYBE STARTING MY OWN WEBSITE BUT THAT WOULD PROBABLY BE A LITTLE TIME CONSUMING."

**Leo:** YOU COULD ALWAYS DO THAT WITH [wordpress.com](http://wordpress.com) OR LIKE MEGAN DID BUT THEN YOU BECOME A WEBMASTER AND YOU'VE GOT TO LEARN MORE UM, START WITH VOX I THINK IT'S A VERY GOOD WAY. IT'S A PERSONAL BLOGGING SERVICE THAT'S PERFECT FOR NEW PARENTS, I THINK.

**Kim:** "OKAY, GREAT."

**Leo:** CONGRATULATIONS, KIM. THAT'S WONDERFUL.

**Kim:** "THANKS, LEO."

**Leo:** I BET YOU'RE REALLY EXCITED.

**Kim:** "YEAH, COULD WE GET A SIGNED PICTURE OF YOU?"

**Leo:** YEAH.

**Kim:** "THAT'D BE AWESOME."

**Leo:** YEAH, I'LL SIGN IT TO YOU AND THE BABY.

[Laughter]

**Kim:** "THAT WOULD BE GREAT THEN WE CAN HAVE IT IN OUR LITTLE KEEPSAKE ALBUM."

**Leo:** OH, I HOPE YOU HAVE A NICE LITTLE GEEK. DO YOU KNOW IF IT'S A BOY OR A GIRL?

**Kim:** "NOT YET."

**Leo:** ARE YOU GONNA FIND OUT  
OR IS IT GONNA BE A SURPRISE?

**Kim:** "I THINK WE MAY ASK."

**Leo:** IT'S HARD NOT TO.

**Kim:** "I KNOW."

**Leo:** YOU'RE IN THERE AND THE  
DOCTOR SAYS WELL, I CAN TELL  
WHAT IT IS.

DO YOU WANT TO KNOW?

IT'S LIKE -- MY WIFE AND I ON  
OUR FIRST CHILD WE SAID NO, WE  
DON'T WANNA KNOW AND THEN I  
CAUGHT HER IN THE BATHROOM  
TRYING TO READ THE RECORDS  
BECAUSE THEY HAD CROSSED IT  
OUT, HOLDING IT UP TO THE LIGHT  
I SAID HONEY, IF WE WANNA KNOW  
WE SHOULD JUST ASK.

SO WE ENDED UP FINDING OUT BOTH  
TIMES AND IT WAS FINE.

HEY, HAVE A WONDERFUL,  
WONDERFUL PREGNANCY AND  
CONGRATULATIONS AND GOOD LUCK.

OKAY, KIM?

**Kim:** "YEAH, THANK YOU."

**Leo:** THANKS SO MUCH NICE TO TALK TO YOU.

**Kim:** "NICE TO TALK TO YOU, TOO."

[Pop captions up]

**Leo:** WE'RE GOING TO TAKE A BREAK.  
COMING BACK, ACTUALLY SOMETHING  
YOU SHOULD KNOW ABOUT KIM, TOO,  
TAKING PICTURES IN LOW LIGHT  
YOU DON'T WANNA FLASH THE BABY

ISO THAT'S THE MAGICAL TERM  
WE'LL SHOW YOU HOW TO USE YOUR  
DIGITAL CAMERA TO IMPROVE YOUR  
LOW LIGHT PICTURES WHEN  
"THE LAB" CONTINUES, STAY  
RIGHT HERE.

[Background music: Instrumental]

[Pop captions down]

[Commercial Break]

[Theme music playing]

**Leo:** ALEX AND I ARE LOOKING AT CAMERAS.

WELCOME BACK TO"THE LAB."

LEO LAPORTE HERE FROM THE  
PIXELCORPS ALEX LINDSAY, HELLO, ALEX.

**Alex Lindsay:** HELLO.

**Leo:** UM, WE'RE TALKING ABOUT  
SOMETHING CALLED ISO.

**Alex Lindsay:** RIGHT.

**Leo:** NOW I REMEMBER IN FILM  
WHEN I USED TO SHOOT FILM YOU'D  
GET ASA.

**Alex Lindsay:** RIGHT.

**Leo:** YOU'D GET ASA 400 IT  
WOULD BE KIND OF A FASTER FILM.

**Alex Lindsay:** RIGHT.

**Leo:** YOU COULD SHOOT OUTSIDE  
WITH ASA 50.

THAT WAS THE FILM SPEED.

HOW MUCH--

**Alex Lindsay:** AND IT'S VERY  
MUCH ISO IS TRYING TO BE  
EXACTLY THE SAME AS FAR AS HOW  
SENSITIVE IT IS.

**Leo:** OKAY, THE HIGHER THE  
NUMBER THE MORE SENSITIVE, THE  
MORE LIGHT, THE LESS LIGHT IT NEEDS.  
THE MORE SENSITIVE TO LIGHT IT IS.

[Pop captions up]

**Alex Lindsay:** EXACTLY.

AND UH, THE UM, UH, THE BIG  
THING IS WHEN YOU'RE DEALING  
WITH THIS WHEN WE'RE DEALING  
WITH FILM WE PUT A ROLL OF FILM  
IN YOU WERE STUCK WITH 400 ASA.

[Pop captions down]

**Leo:** AND YOU HAD TO SET THE  
CAMERA AND THAT WAS IT.

**Alex Lindsay:** AND SO WHAT'S  
NOW JUST STARTING TO PEOPLE ARE  
JUST STARTING TO REALLY GET  
THEIR HEAD AROUND PHOTOGRAPHERS  
WHO USED FILM FOR A LONG TIME  
IS THE IDEA THAT YOU KNOW WHAT?  
I CAN JUST CHANGE MY ISO AS I'M  
WORKING SO I CAN GO TO YOU  
KNOW, I CAN SHOOT 100 ASA.

**Leo:** RIGHT.

**Alex Lindsay:** ON THIS IMAGE  
AND 1600 ASA OR ISO ON THE NEXT IMAGE.

**Leo:** THIS IS SOMETHING NOT  
ALL CAMERAS CAN DO BUT MORE AND  
MORE CAMERAS CAN HAVE SETTABLE ISOs.  
THIS IS A UM, THIS IS AMAZING.  
THIS IS A G9 AND IT ACTUALLY  
HAS A ISO DIAL ON THE TOP OF  
THE CAMERA.

**Alex Lindsay:** EXACTLY.

[Pop captions up]

**Leo:** IT SHOWS YOU HOW  
IMPORTANT THEY THINK THIS IS.

**Alex Lindsay:** IT'S REALLY  
BECOME WHAT THEY CALL A THIRD DIAL.  
YOU REALLY HAVE -- MOST PEOPLE  
HAVE ALWAYS YOU KNOW, TO CHANGE  
YOUR EXPOSURE THEY WORK WITH  
SHUTTER, THEY WORK WITH  
APERTURE AND THIS AND ISO IS  
NOW REALLY A THIRD DIAL AND  
THEY MAKE IT THAT PROMINENT IS  
A BIG DEAL.

[Pop captions down]

**Alex Lindsay:** THAT'S NOT BEEN THE CASE.

**Leo:** I'VE NEVER SEEN THAT  
BEFORE USUALLY YOU HAVE TO DIG  
DEEP INTO THE MENUS AND CHANGE IT.  
USUALLY YOU LEAVE IT ON AUTO  
FRANKLY BUT MAYBE THAT'S NOT  
THE THING TO DO.

**Alex Lindsay:** WELL, YOU  
KNOW, I LIKE TO HAVE A LITTLE  
BIT MORE CONTROL.

**Leo:** RIGHT.

**Alex Lindsay:** SO I UM, I  
SWITCH THAT BACK AND FORTH ALL THE TIME.  
UM--

**Leo:** NOW THIS LOOKS LIKE IT  
DOESN'T HAVE A HUGE RANGE.  
IT LOOKS LIKE IT GOES FROM 60  
OR 80 TO 1,000.

**Alex Lindsay:** WELL, THAT'S  
AND THAT'S 1600 IT'LL GO UP TO 1600.

**Leo:** 1600 OH, YEAH, THERE IT IS.

**Alex Lindsay:** AND THE UH, UM--

**Leo:** THAT'S PRETTY GOOD RANGE.

**Alex Lindsay:** THAT'S THE  
AVERAGE RANGE RIGHT NOW.

**Leo:** NOW IF I SHOOT AT 1600  
WHY DON'T I JUST SHOOT AT 1600  
ALL THE TIME?

**Alex Lindsay:** HERE, I'LL  
SHOW YOU ACTUALLY, I HAVE AN EXAMPLE.

**Leo:** IT SEEMS LIKE YOU KNOW,  
IT WOULD BE MORE FLEXIBLE AND I  
JUST INCREASE THE SHUTTER SPEED  
IF I'M IN BRIGHT LIGHT.

**Alex Lindsay:** RIGHT.  
HERE'S AN EXAMPLE NOW WHAT I  
DID HERE IS I TOOK A SERIES OF  
PHOTOS AND I STOPPED DOWN SO I  
UM, I CHANGED THE SHUTTER SPEED  
AT THE SAME TIME I WAS CHANGING  
THE ISO.

**Leo:** SO YOU INCREASE THE  
SENSITIVITY BUT YOU TOOK A  
SHORTER EXPOSURE TO MAKE UP FOR  
IT SO THE EXPOSURE'S THE SAME  
ALL THE WAY.

**Alex Lindsay:** IT'S RELATIVELY CLOSE.

**Leo:** YEAH.

**Alex Lindsay:** AND WHAT  
YOU'RE GONNA SEE HERE IS IF  
YOU'RE LOOKING AT IT RIGHT NOW

THAT'S 100 ISO.

**Leo:** OKAY.

**Alex Lindsay:** HERE'S 200 ISO  
YOU SEE HOW WE'VE ADDED SOME GRAIN.

**Leo:** OKAY.

**Alex Lindsay:** LET ME ZOOM IN  
A LITTLE BIT MORE HERE.  
AND YOU CAN SEE IT.  
SO HERE'S 100, 200.

**Leo:** OH, YEAH.

**Alex Lindsay:** 400.

**Leo:** OH, YEAH.

**Alex Lindsay:** 800.

**Leo:** OH, BOY.

**Alex Lindsay:** 1600.

**Leo:** OKAY.

**Alex Lindsay:** SO YOU SEE  
THAT'S WHAT YOU'RE GIVING UP.  
THAT'S WHAT YOU'RE GIVING UP  
FOR THAT SENSITIVITY.

**Leo:** HOLY COW.

**Alex Lindsay:** THINGS START TO GET BEAT UP.  
NOW WHEN WE ZOOM BACK OUT.

**Leo:** YEAH, BECAUSE THAT'S  
WE'RE WAY ZOOMED IN.

**Alex Lindsay:** BUT YOU'RE  
STILL LOOKING AT SOMETHING --  
THAT'S ONE TO ONE.

**Leo:** YOU CAN SEE IT.

**Alex Lindsay:** AND YOU CAN  
STILL SEE THAT THERE'S A LOT OF  
GRAIN THERE.  
NOW THE OTHER THING TO KNOW IS

THAT THE GRAIN STRUCTURE WILL  
BE DIFFERENT BETWEEN EVERY  
CAMERA SO THIS G9, THIS ONE'S  
SHOT WITH A G9.

**Leo:** OKAY.

**Alex Lindsay:** AND IT'S A  
LITTLE -- IT'S VERY GRAINY.

**Leo:** THAT'S A GRAINY CAMERA.  
I HAVE TO SAY.

**Alex Lindsay:** IF WE JUMP TO  
THIS IS 1600 AS WELL.

**Leo:** THERE'S MALAKHI.

**Alex Lindsay:** NOW THIS IS 1600 ISO.

**Leo:** THAT DOESN'T LOOK GRAINY AT ALL.

**Alex Lindsay:** BUT THAT'S SHOT WITH MY 20D.

**Leo:** A VERY, VERY GOOD CAMERA.

**Alex Lindsay:** SO A LOT HAS  
TO DO WITH THE SIZE OF THE SENSORS.  
SO LIKE WHEN YOU GO TO A FULL  
SIZED SENSOR FOR INSTANCE.

**Leo:** RIGHT.

**Alex Lindsay:** UM, EACH OF  
THOSE LITTLE SENSORS ARE GOING  
TO BE MORE SENSITIVE.

**Leo:** RIGHT.

**Alex Lindsay:** BECAUSE THEY  
HAVE MORE SURFACE AREA TO WORK  
WITH AND ALL WE'RE DOING HERE  
THE REASON IT LOOKS SO GRAINY  
IS ALL WE'RE DOING HERE IS  
WE'RE TURNING THE GAIN UP.  
SO WE'RE JUST GAINING, YOU  
KNOW, WE'RE TAKING THE IMAGE

THAT COMES IN TO THE SENSOR.

**Leo:** AND JUST TURNING IT UP.

**Alex Lindsay:** JUST CRANKING IT UP.

**Leo:** YEAH.

**Alex Lindsay:** YOU KNOW AND  
SO THAT'S WHY YOU'RE GETTING  
THAT GRAIN AND SO A CAMERA LIKE  
THIS LIKE FOR INSTANCE.

**Leo:** THE ADVANTAGES OF THIS  
WITH A BABY YOU DON'T WANT TO  
TAKE FLASH PICTURE IT'S GOING  
TO LOSE ITS DEPTH.

IT'S GOING TO FLATTEN IT OUT,  
IT'S GOING TO BUG THE KID.

**Alex Lindsay:** BUT YOU CAN CHANGE--

**Leo:** IT LOOKS REALLY GOOD.

**Alex Lindsay:** THIS IS 1600 THIS IS 200.  
THIS IS UH, 1600 THIS IS UH, 1600, 400.

**Leo:** YOU COULD TELL THE  
DIFFERENCE BUT YOU MAY HAVE TO  
ZOOM IN TO REALLY SEE IT OR  
MAKE A BIG PRINT.

**Alex Lindsay:** BUT THE MAIN  
THING IS THESE WERE ALL SHOT  
VERY CLOSE -- VERY CLOSE IN  
TIME TOGETHER.  
I SIMPLY JUST MADE THOSE  
ADJUSTMENTS WHILE I WAS SHOOTING.

**Leo:** RIGHT.

**Alex Lindsay:** AND I'M ABLE  
TO SHOOT IN ALL THOSE AREAS NOW  
IF YOU GET A BIGGER CAMERA AND  
I THINK THAT THIS -- NOT JUST A

BIGGER CAMERA I THINK THAT THIS IS GOING ISO AND THE SENSITIVITY IS GOING TO BE ONE OF THE THINGS THAT WE PAY A LOT OF ATTENTION TO IN CAMERAS. IT'S MORE IMPORTANT THAN YOUR MEGAPIXELS.

**Leo:** YEAH.

THIS IS A 12 MEGAPIXEL CAMERA BUT IT'S A SMALLER CHIP BECAUSE IT'S A COMPACT CAMERA SO--

**Alex Lindsay:** WHICH MEANS IT'S GRAINIER.

**Leo:** IT'S GRAINIER.

**Alex Lindsay:** I WOULD RATHER TO BE HONEST WITH YOU.

I WOULD RATHER HAVE A SIX TO EIGHT MEGAPIXEL CAMERA AND HAVE IT BE GRAINLESS THAT WOULD BE MUCH MORE IMPORTANT TO ME AND I THINK THAT AS PEOPLE GET USED TO IT I THINK PEOPLE -- WE'RE GOING CRAZY WITH THESE MEGAPIXELS. 10 MEGAPIXELS.

12 MEGAPIXELS AND IT'S NOT MEGAPIXELS.

THE SENSITIVITY OF THE IMAGE IS GOING TO MAKE MUCH MORE OF A DIFFERENCE IN YOUR DAY TO DAY SHOOTING THAN UH, THE SIZE OF THAT IMAGE.

**Leo:** WELL, WHAT'S INTERESTING IS CANON, NIKON, AND NOW SONY ARE NOW SHIPPING CAMERAS WITH FULL SIZED SENSORS. 35 MILLIMETRE SIZED SENSORS ALL

OF WHICH WOULD LOOK MUCH BETTER  
EVEN IN HIGH ISOs.

**Alex Lindsay:** AND SOME OF  
THEM ARE REALLY PAYING  
ATTENTION TO THAT SENSITIVITY.  
I HAVEN'T SEEN IT YET BUT I'VE  
HEARD FOR INSTANCE THE NIKON  
300D OR D300 IS UM, ALMOST  
GRAINLESS AT 1600.

**Leo:** WOW.

**Alex Lindsay:** VERY LITTLE  
GRAIN AT 3200 AND NOW GOES UP  
TO 6400 AND WE'RE GOING TO SEE  
MORE AND MORE OF THIS.

**Leo:** WOW.

**Alex Lindsay:** IT IS GONNA GET TO A POINT--

**Leo:** WELL, I MEAN, IF  
THERE'S NO LIGHT YOU CAN'T TAKE  
A PICTURE.

[Pop captions up]

**Alex Lindsay:** RIGHT.  
BUT I THINK WE ARE GOING TO GET  
TO A POINT WHERE YOU KNOW,  
THREE YEARS FROM NOW, FOUR  
YEARS FROM NOW EVEN ON THESE  
LITTLE CAMERAS YOU'RE GONNA  
SHOOT 1600 ISO AND IT'S GONNA  
LOOK ALMOST AS SMOOTH AS 100.

[Pop captions down]

**Leo:** WHICH MEANS YOU  
PROBABLY DO IT ALL THE TIME YOU  
JUST LEAVE IT -- LEAVE IT THERE  
AND JUST HAVE THAT SENSITIVITY.

SO SOMETHING TO BE AWARE OF.  
YOU SHOULD LOOK INTO YOUR  
CAMERA BOOK AND SEE WHERE THE  
ISO SETTINGS ARE AND YOU MIGHT  
WANT TO TRY DIFFERENT ISO SETTINGS.  
IT IS A GREAT WAY TO AVOID USING FLASH.

**Alex Lindsay:** AND I LIKE TO AVOID FLASH.

**Leo:** WHO WANTS TO USE FLASH?

**Alex Lindsay:** I DIDN'T EVEN  
KNOW IF MY FLASH WORKED AFTER  
TWO OR THREE YEARS.  
I WAS LIKE I DON'T EVEN KNOW IF  
IT POPS OPEN.

[Pop captions up]

**Leo:** ALEX LINDSAY IS AT THE PIXELCORPS.  
THAT'S [pixelcorps.com](http://pixelcorps.com) A GREAT  
PLACE TO LEARN ABOUT  
PHOTOGRAPHY, 3D IMAGING, 2D  
IMAGING, PHOTOSHOP, AND A WHOLE  
LOT MORE AND THEN ONCE YOU'VE  
LEARNED TO GET WORK THIS IS A  
GOOD TIME TO JOIN NOW THROUGH  
JUNE \$50 ONE FLAT FEE.  
WHENEVER YOU SIGN UP THE SOONER  
YOU SIGN UP THE MORE YOU'RE GONNA GET.

[pixelcorps.com](http://pixelcorps.com)

[Pop captions down]

**Leo:** THANK YOU, ALEX, I REALLY APPRECIATE IT.  
ALL RIGHT, AND WE'RE GONNA COME  
BACK AND TALK MORE IN JUST A  
BIT WITH YOU OUR CALLERS BUT  
FIRST A CLOSE-UP VERY BY THE  
WAY VERY LOW ISO CLOSE-UP OF

SOMETHING YOU'D FIND AROUND "THE LAB."

I DON'T KNOW WHAT THAT IS.

CAN YOU FIGURE IT OUT?

TELL YOU WHAT, WE'LL ZOOM OUT

AND FIND OUT.

I SEE A Z AND AN O.

WE'LL FIND OUT WHEN -- IT'S

GOTTA BE A CAMERA, RIGHT?

WHEN "THE LAB" CONTINUES.

I'LL TELL YOU WHAT, STICK AROUND.

[Background music: Instrumental]

[Commercial Break]

[Theme music playing]

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

BEFORE THE BREAK WE SHOWED THIS

CHEESY LITTLE PLASTIC CAMERA IS

MY GUESS.

[Pop captions up]

**Leo:** OH, THAT'S CLOSE IT'S

THE JAKKS PACIFIC EYE-CLOPS.

ACTUALLY THAT'S KIND OF NEAT.

IT'S A MICROSCOPE THAT HOOKS UP

TO YOUR TV AND YOU GET CAN

CLOSE-UPS OF ALL SORTS OF STUFF

LIKE HE DOES WITH HIS MACRO LENS.

[Pop captions down]

**Leo:** THAT'S SEAN CARRUTHERS

AND HE TAKES THOSE WHAT THE

TECH PICTURES.

NOW LET'S GET ANOTHER UH, HEWER

ON THE LINE HERE WITH A CALL.

WHO DO WE HAVE, KATE?

**Kate:** WE ARE GOING TO

NEWPORT BEACH IN CALIFORNIA AND  
WE HAVE TOM ON THE LINE.

**Leo:** HEY, TOM, HOW ARE YOU TODAY?

[Pop captions up]

**Tom:** "GREAT TO TALK TO YOU, LEO."

**Leo:** GREAT TO TALK TO YOU.

WHAT CAN I DO TO HELP?

**Tom:** "YOU'RE GOING TO GET ME OUT OF A PROBLEM."

**Leo:** OKAY.

**Tom:** "I CANNOT DELETE THE UM, MESSAGES FROM  
MY COMPUTER.

THE DELETED ITEMS

FOLDER UM, SAYS I HAVE

51 ITEMS IN THERE, IT'S

ACTUALLY 170 ITEMS."

**Leo:** UH-HUH.

**Tom:** "AND THE JUNK EMAIL FOLDERS SAYS I  
HAVE ONE ITEM AND IT'S  
FOUR ITEMS IN THERE."

**Leo:** YEAH.

**Tom:** "WHEN I TRY TO ELIMINATE THOSE  
MESSAGES A DIALOGUE BOX  
COMES UP THAT SAYS  
MESSAGES COULD NOT BE DISPLAYED.  
YOU KNOW THE MESSAGE ALREADY OR?"

[Pop captions down]

**Leo:** YEAH.

AND WHAT HAPPENS IS AND THIS  
HAPPENS WITH ALL EMAIL PROGRAMS  
UH, THE UH, THERE'S A DATABASE  
OF MESSAGES AND THERE'S AN  
INDEX TO THE DATABASE.  
AND IF EITHER OF THOSE GETS

CORRUPTED WHAT HAPPENS IS THE  
PROGRAM THINKS THERE'S MESSAGES  
THERE AND THEY'RE NOT.

OR VICE VERSA AND SO THEY GET  
TO OF SYNC AND REALLY THE  
SOLUTION TO THIS IS TO REBUILD  
THE MESSAGE DATABASE.

WHAT PROGRAM DO YOU USE?

**Tom:** "IT'S THE WINDOWS VISTA HOME PREMIUM."

[Pop captions up]

**Leo:** THE VISTA.

AND YOU'RE USING THE VISTA MAIL  
THAT COMES WITH IT?

**Tom:** "YEAH, THE MAIL THAT COMES WITH IT."

**Leo:** ONE THING I WOULD  
SUGGEST AND MICROSOFT SAYS  
THIS, TOO, UH, THEY WANT YOU TO  
KIND OF GO TO WINDOWS LIVE MAIL  
WHICH IS A MUCH IMPROVED AND  
FREE VERSION OF YOUR MAIL  
PROGRAM SO THE FIRST THING I'M  
GONNA SUGGEST IS YOU GO TO --  
THIS MAY OR MAY NOT FIX THE PROBLEM.

WHEN YOU INSTALL WINDOWS LIVE  
MAIL IT WILL REBUILD YOUR  
DATABASE SO THIS MAY FIX THE  
PROBLEM RIGHT OUT OF THE BOX.

YOU GO TO GET LIVE --

[get.live.com](http://get.live.com) AND WHEN YOU CLICK  
THIS THEY HAVE A NUMBER OF  
PROGRAMS BUT THE ONE YOU WANT  
IS THE NEW LIVE MAIL WHICH IS A  
BIG IMPROVEMENT.

[Pop captions down]

**Leo:** VISTA MAIL IS JUST YOU  
KNOW, JUST KIND OF A REWRITE OF  
OUTLOOK BUT THEY'VE IN THE  
MEANWHILE CONTINUED TO WORK ON  
IT AND THEIR NEW MAIL IT'S JUST  
AN EXCELLENT, EXCELLENT PROGRAM.  
SO UH, THAT MIGHT FIX THE PROBLEM.  
I WOULD TRY THAT FIRST.  
IF YOU DON'T WANNA DO IT I'M  
GONNA GIVE YOU ANOTHER SOLUTION  
WHICH YOU MAY OR MAY NOT NEED  
TO DO AND THAT IS TO REBUILD  
THE UH, MAILBOX AND THIS IS A  
COMPLICATED MULTI-STEP PROCESS  
SO UH, I'M GONNA -- THERE'S A  
MICROSOFT SUPPORT TECH NOTE  
THAT DESCRIBES HOW TO DO IT.  
IT'S 941090 IF YOU GO TO  
[support.microsoft.com](http://support.microsoft.com) YOU'LL  
SEE WE'VE GOT SEVEN STEPS HERE  
BUT ONE OF THE STEPS HAS EIGHT  
STEPS WITHIN IT.

[Pop captions up]

**Leo:** IF YOU GO TO  
[support.microsoft.com](http://support.microsoft.com) AND YOU  
ENTER IN UH, A SEARCH FOR  
941090 YOU'LL SEE IT'S REBUILD  
THE MESSAGE STORE OF MESSAGE MAIL.  
WHAT YOU NEED TO DO IS FIND THE  
[windowsmail.msmessagestore](http://windowsmail.msmessagestore) FILE  
THAT'S THE DATABASE.

[Clearing throat]

BELIEVE IT OR NOT, ACTUALLY  
IT'S MORE LIKE AN INDEX,  
BELIEVE IT OR NOT DELETING THIS  
AND THEN DELETING ANY BACKUPS  
WILL FORCE MAIL TO REBUILD THE  
MESSAGE DATABASE.

[Pop captions down]

**Leo:** WHAT THAT'S GONNA DO IS  
IT'S GOING TO GIVE YOU A FRESH  
COPY AND IN THAT ONE YOU'LL  
HAVE THE CORRECT NUMBER OF  
MESSAGES AND IF THERE'S STUFF  
YOU NEED TO DELETE YOU'LL NOW  
BE ABLE TO DELETE IT.  
IT WON'T BE BLOCKED.  
DOES THAT MAKE SENSE?

**Tom:** "WELL, I'LL TELL YOU I'M NOT THAT  
COMPUTER SAVVY."

**Leo:** YEAH, WELL, THAT'S NICE  
OF MICROSOFT TO MAKE IT SO  
DIFFICULT IT USED TO BE YOU  
COULD JUST OPEN OUTLOOK EXPRESS  
HOLDING DOWN THE OPTION KEY AND  
IT WOULD DO IT FOR YOU NOW YOU  
ACTUALLY HAVE TO DELETE A FILE.  
UM, I WISH IT WERE EASIER.  
THE PROCESS IS REALLY RIDICULOUS.  
YOU HAVE TO START WINDOWS MAIL.  
GO TO THE OPTIONS DIALOGUE  
CLICK THE ADVANCED TAB, CLICK  
THE MAINTENANCE BUTTON, CLICK  
THE STORE FOLDER BUTTON.  
FIND THE STORE LOCATION YOU

HAVE TO FIGURE OUT IN OTHER  
WORDS WHERE THE MESSAGES ARE STORED.  
WHEN YOU'VE FIGURED THAT OUT,  
COPY IT THEN SEARCH FOR IT THEN  
WHEN YOU FIND IT DELETE IT THEN  
GO TO THE BACKUP FOLDER AND THE  
NEW FOLDER DELETE THE CONTENTS  
THERE AND THEN RESTART WINDOWS MAIL.  
AND THIS IS RIDICULOUS BUT THIS  
IS WHAT YOU NEED TO DO.

THERE'S NO -- I DON'T KNOW OF A  
SIMPLER WAY.

WELL, I DO AND THAT'S THE FIRST  
THING I SUGGESTED WHICH IS AND  
I STILL THINK THIS WILL  
PROBABLY SOLVE YOUR PROBLEMS  
AND ACTUALLY WILL GIVE YOU A  
MUCH BETTER MAIL.

SPAM FILTERING IT'S JUST A MUCH  
BETTER MAIL PROGRAM.

JUST [get.live.com](http://get.live.com) YOU CAN  
SELECT THE PRODUCTS YOU WANT TO  
INSTALL YOU KNOW, YOU DON'T  
NEED TO HAVE PHOTO GALLERY.

[Pop captions up]

**Leo:** YOU DON'T NEED TO HAVE  
MESSENGER OR WRITER OR TOOL BAR  
SO YOU CAN UNCHECK ALL OF THOSE  
BUT DO LEAVE MAIL CHECKED.

IT'S A VERY SIMPLE INSTALL.

ONCE YOU DO IT IT WILL TAKE  
YOUR MESSAGES FROM THE OLD  
VISTA MAIL AND UH, I'M THINKING

IT WILL REBUILD, I'M PRETTY  
SURE IT WILL REBUILD THAT DATABASE.

[Pop captions down]

**Leo:** SO THAT'S ANOTHER WAY  
TO DO KIND OF WHAT WE NEED TO  
DO THAT'S WHAT'S WRONG IS THE  
DATABASE IS DAMAGED.

DOES THAT MAKE SENSE, TOM?

I KNOW IT'S A LITTLE COMPLICATED.

**Tom:** "ALL RIGHT, THE OTHER THING THOUGH IS  
I'M GONNA TRY THIS AND  
GET [live.com](http://live.com) WHICH YOU  
SAY WILL GET ME TO WINDOWS LIVE."

**Leo:** THAT'S WHAT I WOULD DO.

[Pop captions up]

**Leo:** MICROSOFT IS SAYING  
THIS IS A BETTER MAIL PROGRAM.

I AGREE.

I USE IT.

IT'S VERY SIMILAR YOU'RE NOT  
GOING TO FEEL AT SEA.

IT'S JUST THEY'VE IMPROVED IT.

[Pop captions down]

**Leo:** SO THAT'S WHAT I'M  
GONNA SUGGEST YOU START WITH.  
AND MAYBE THAT WILL FIX IT  
WHICH IS [get.live.com](http://get.live.com)  
YOU CAN UNCHECK EVERYTHING  
ELSE, JUST GET MAIL OR YOU CAN  
GET THE OTHER THINGS IF YOU WANT.  
THEY'RE ALL FREE.

THEY'RE PART OF MICROSOFT  
WINDOWS LIVE PROGRAM WHICH IS A

GREAT PROGRAM SOME OF THE BEST  
STUFF MICROSOFT'S DONE IN YEARS I THINK.  
AND THE MAIL IS A BIG  
IMPROVEMENT SO I HIGHLY RECOMMEND IT.  
TOM, I THANK YOU FOR THE CALL.  
WE'RE GOING TO TAKE A WALK OVER  
SAY HI TO Mr. RYAN YEWELL.  
SAY, RYAN, IF YOU -- IF YOU  
FIND A YOU KNOW, A FREE PROGRAM  
TO REBUILD YOUR MAIL DATABASE  
LET US KNOW ABOUT THAT.

**Ryan:** OKAY.

**Leo:** BUT YOU KNOW, IT USED  
TO BE IT WAS AN EASY THING TO  
DO NOW THEY'VE MADE IT  
RIDICULOUSLY DIFFICULT.

[Laughter]

**Leo:** BUT IT'S SOMETHING  
PEOPLE HAVE TO DO FREQUENTLY.  
NOW WHAT HAVE YOU GOT HERE FOR US?

**Ryan:** WE'RE ON WINDOWS.

**Leo:** YES, SIR.

**Ryan:** AND IF PEOPLE HAVE  
HEARD OF OR SEEN A PHOTO MOSAIC ESSENTIALLY--

**Leo:** I LOVE THAT.

**Ryan:** IT'S A PICTURE THAT  
YOU CAN SEE WHAT'S GOING ON BUT  
INSIDE ARE ALL THESE LITTLE PICTURES.

**Leo:** ISN'T IT FUN?

[Pop captions up]

**Ryan:** IT'S SO COOL.  
AND SO I FOUND THIS PROGRAM FOR  
WINDOWS CALLED ANDREA MOSAIC.

**Leo:** IT MAKES ONE.

**Ryan:** IT ACTUALLY CAN MAKE  
IT FOR YOU AND IT'S REALLY SIMPLE.  
SO IT'S A THREE STEP PROCESS  
THE FIRST STEP WHERE ARE YOUR PICTURES?  
SO YOU JUST HIT FIND TILES, YOU  
GO CREATE A COLLECTION.

**Leo:** IT'S BEST IF YOU HAVE A  
LARGE NUMBER OF PHOTOS TO  
CHOOSE FROM.

**Ryan:** OTHERWISE THEY'RE  
GOING TO REPEAT A LOT.

[Pop captions down]

**Ryan:** I USED 49 SO YOU'RE  
GONNA PROBABLY SEE--

**Leo:** YOU WANT THOUSANDS IS  
WHAT YOU WANT.

**Ryan:** YOU WANT A LOT.  
BUT UH, FOR THIS I DIDN'T USE  
THAT MANY AND THEN WHAT YOU DO  
IS YOU CAN SET THE SETTINGS.

**Leo:** THESE WOULD BE YOUR OWN  
PHOTOS ON YOUR HARD DRIVE.

**Ryan:** YES.  
ON YOUR LOCAL HARD DRIVE AND  
THEN YOU JUST GIVE IT THE  
PARAMETERS HOW BIG YOU WANT IT.  
HOW MANY TILES IF YOU WANT  
REPEATS, IF YOU DON'T WANT REPEATS.

**Leo:** IT'D BE A GREAT WAY TO  
MAKE A POSTER.

**Ryan:** WE'RE GETTING THERE.

**Leo:** OH, GOOD.

**Ryan:** AND THEN ALL YOU HAVE TO DO IS CREATE THE TEMPLATES SO WHAT YOU WANT THE FINAL KIND OF OVERALL PICTURE TO LOOK LIKE. THAT'S REALLY EASY YOU JUST HIT ADD IMAGE AND THEN SELECT THAT.

**Leo:** SO YOU CAN ACTUALLY MAKE IT LOOK LIKE ANOTHER ONE OF YOUR IMAGES?

**Ryan:** YEAH, AND THEN--

**Leo:** SO YOU COULD LIKE HAVE A PICTURE OF RYAN MADE UP OF LITTLE TINY PICTURES OF RYAN.

**Ryan:** EXACTLY.

**Leo:** THAT KIND OF THING. WE'RE GONNA DO ONE.

**Ryan:** AND THEN YOU JUST CLICK CREATE MOSAIC AND DEPENDING ON HOW COMPLEX IT MIGHT TAKE LIKE TWO, THREE, FOUR MINUTES BUT HERE'S THE END RESULT.

**Leo:** OH, ISN'T THAT COOL?

**Ryan:** "THE LAB WITHLEO. "

**Leo:** IF YOU ZOOM IN YOU'LL SEE THESE ARE ALL PICTURES.

**Ryan:** NOW LET'S ZOOM IN AND THERE YOU GO THAT'S ACTUALLY MADE UP OF ALL THOSE PICTURES.

**Leo:** THAT WAS ONLY 49. THAT ACTUALLY IS A PRETTY GOOD RESULT.

**Ryan:** THAT'S 49 PICTURES AND I TOLD IT IT COULD NOT REPEAT MORE THAN EVERY THREE PICTURES

SO EVERY THREE PICTURES WILL BE DIFFERENT AT LEAST.

**Leo:** VERY COOL.

**Ryan:** SO YOU CAN GIVE IT ALL THE DIFFERENT PARAMETERS IT'S REALLY COOL.

**Leo:** WHAT'S THE NAME OF THAT?

**Ryan:** IT'S CALLED ANDREA MOSAIC.

**Leo:** I LIKE THAT AND IT'S FREE WHICH IS NICE.

**Ryan:** FREE FOR WINDOWS.

**Leo:** ALL OF RYAN'S JEWELS ON THE WEBSITE.

[Pop captions up]

**Ryan:** [labwithleo.com](http://labwithleo.com)

YEWELL'S JEWELS, FREE FILES THEY'RE ALL THERE.

THIS ONE, I LIKE THIS ON A LOT. IT'S VISUAL, IT'S EASY, AND IT MAKES STUFF THAT'S REALLY COOL.

**Leo:** VERY COOL.

THANK YOU, RYAN.

**Ryan:** YOU'RE WELCOME.

**Leo:** I REALLY APPRECIATE THAT. THAT'S -- I LOVE PHOTO MOSAIC. YOU KNOW, THE MAC OSX LEOPARD HAS A SCREENSAVER THAT DOES THAT AUTOMATICALLY OUT OF IPHOTOS IT'S SO COOL.

ALL RIGHT, COMING UP IN JUST A BIT WE'RE GOING TO SHOW YOU HOW TO CREATE YOUR OWN GENERATIVE ART. IT'S KIND OF LIKE THIS IN A

WAY, YOU'LL SEE WITH FLASH.  
JACOB TRAN WHO TEACHES VIDEO  
GAME DESIGN AT VANCOUVER FILM  
SCHOOL WILL JOIN US BUT FIRST  
OUR QUICK QUIZ QUESTION OF THE DAY:

[Blank for boards]

**Leo:** THEY INVENTED THE CD WAS IT:

[Blank for boards]

**Leo:** HMM.

THINK ABOUT IT.

I'LL TELL YOU WHAT I'LL TELL  
YOU WHO DID IT A LITTLE LATER  
ON AS "THE LAB" CONTINUES  
STAY RIGHT HERE.

[Background music: Instrumental]

[Pop captions down]

[Commercial Break]

[Theme music playing]

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

I'M LEO LAPORTE.

JACOB TRAN IS HERE.

WE'VE HAD HIM ON MANY TIMES BEFORE.

HE IS A GAME DESIGN INSTRUCTOR  
AT VANCOUVER FILM SCHOOL.

IT'S GREAT TO HAVE YOU BACK, JACOB.

**Jacob Tran:** IT'S A PLEASURE, LEO.

**Leo:** YOU'RE GONNA TALK TO US  
ABOUT SOMETHING A LITTLE  
DIFFERENT BUT RELATED TO WHAT  
YOU DO YOU WORK A LOT WITH  
FLASH, I KNOW.

**Jacob Tran:** MM-HMM.

**Leo:** GENERATIVE ART, WHAT IS THAT?

[Pop captions up]

**Jacob Tran:** GENERATIVE ART

IT'S ART THAT'S CREATED USING  
COMPLEX COMPUTER ALGORITHMS.

**Leo:** SO IT'S NOT DONE BY A HUMAN?

[Pop captions down]

**Jacob Tran:** THAT'S RIGHT SO

IT'S GENERATED BY THE COMPUTER  
AND FOR ME PERSONALLY WHAT I  
TRY TO DO IS I WORK IN THE  
FIELD I WORK AT I'M OFTEN  
PROGRAMMING A LOT.

**Leo:** RIGHT.

**Jacob Tran:** SO I'M DOING TECHNICAL THINGS.

SO I'LL TAKE ACRYLIC PAINTING  
AT EMILY CARR FOR EXAMPLE JUST  
TO KEEP THAT BALANCE.

**Leo:** YEAH, JUST TO KEEP YOUR  
VISUAL LIFE ALIVE, YEAH.

**Jacob Tran:** BUT WHAT IF YOU  
COULD COMBINE BOTH OF THOSE TWO  
AREAS OF YOUR LIFE?

**Leo:** OH.

**Jacob Tran:** THE WHOLE TECHNICAL ASPECT OF THE  
PROGRAMMING AS WELL AS THE  
VISUAL UM, YOU KNOW,  
SATISFACTION YOU GET FROM ART  
SO THAT'S WHAT GENERATIVE ART  
IS TO ME.

IT'S BASICALLY ANYTHING THAT'S  
PRODUCED BY THE COMPUTER USING  
ALGORITHMS THAT'S VISUAL APPEALING.

**Leo:** BUT STILL A HUMAN

STARTS IT OFF, RIGHT?

A HUMAN IS STARTING OFF WHAT'S GOING ON?

**Jacob Tran:** I MEAN, ART IS  
SO SUBJECT IT I MEAN, WHAT'S  
ART TO ME MAY NOT BE ART TO YOU.

**Leo:** RIGHT.

**Jacob Tran:** AND WHAT I'M  
GONNA START OUT SHOWING IS UH,  
A PIECE THAT'S CALLED FLASH  
YOUR OWN JACKSON POLLACK.  
SO FOR THOSE PEOPLE WHO DON'T  
KNOW WHO JACKSON POLLACK IS  
HE'S AN ARTIST.

SOME DON'T CONSIDER HIM A  
PAINTER SOME CONSIDER HIM  
NOTHING AT ALL AND BASICALLY  
HIS TECHNIQUE IS TO TAKE  
PAINTBRUSHES, DIP THEM IN PAINT  
SO THEY'RE REALLY SOAKED AND  
JUST RUN THEM ALL OVER THE  
CANVAS SO HIS PAINTBRUSH NEVER  
ACTUALLY TOUCHES THE CANVAS.

**Leo:** HE'S BIG ON DRIPS.

**Jacob Tran:** YEAH, SO HE'S A PAINTER, RIGHT?

**Leo:** YOU MIGHT SAY HE'S  
CONTROVERSIAL BUT GENERALLY  
CONSIDERED ONE OF THE GREAT  
ARTISTS OF THE 20th CENTURY.

**Jacob Tran:** EXACTLY.  
HE REALLY REVOLUTIONISED WHAT  
ART IS, RIGHT?

SO HERE IS A SITE CALLED [jacksonpollack.org](http://jacksonpollack.org).

**Leo:** OH, ISN'T THAT PRETTY.

**Jacob Tran:** YEAH, SO YOU CAN  
DRAW ALL OVER THE SCREEN AND  
EVERY TIME YOU CLICK IT CHANGES  
THE COLOUR PALATE TO A RANDOM  
COLOUR SO YOU COULD ESSENTIALLY  
CREATE YOUR OWN JACKSON POLLACK PAINTING.

[Pop captions up]

**Leo:** YOU'RE STILL PAINTING  
IT'S JUST THAT THE COMPUTER'S  
HELPING YOU.

[Pop captions down]

**Jacob Tran:** EXACTLY AND WHEN  
YOU'RE HAPPY WITH IT YOU CAN  
CLICK ON THIS HEART AND SUBMIT  
IT TO THEIR SITE AND YOU CAN  
SEE A BUNCH OF OTHER PEOPLE'S  
JACKSON POLLACK'S THAT THEY  
REALLY LOVE.

**Leo:** THAT'S REALLY NEAT. [jacksonpollack.org](http://jacksonpollack.org).  
IS THAT THE JACKSON POLLACK  
ESTATE OR IT'S JUST SOMEBODY  
WHO'S USING THAT NAME AND  
CREATING A -- IT'S FLASH, RIGHT?

**Jacob Tran:** I'M NOT SURE IF  
IT'S THE OFFICIAL JACKSON  
POLLACK SITE.

**Leo:** IT PROBABLY ISN'T.

**Jacob Tran:** IT PROBABLY  
ISN'T BUT WHAT REALLY MAKES  
FLASH A GREAT TOOL FOR CREATING  
GENERATIVE ART IS THAT IT'S SO  
VISUAL AND IT'S SO DESIGNER FRIENDLY.

**Leo:** RIGHT.

**Jacob Tran:** SO YOU HAVE--

**Leo:** AND YOU CAN WRITE PROGRAMS IN IT.

IT'S NOT JUST ANIMATION.

WE SEE A LOT OF ANIMATION.

BUT IT CAN ALSO BE PROGRAMMED

AND THAT'S WHAT THAT IS.

**Jacob Tran:** THE SCRIPTING

LANGUAGE ESPECIALLY IF YOU'RE

USING AS2 IS VERY--

**Leo:** POWERFUL ENOUGH TO DO

THAT, YEAH, YEAH.

**Jacob Tran:** SO I'M GONNA

TALK A BIT ABOUT THE TECHNICAL

SIDE ABOUT HOW FLASH WORKS AND

HOW THIS IS CREATED.

IT'S BASICALLY USING SOMETHING

UM, CALLED VECTORED ART.

SO ALL THIS ART HERE IS

DESCRIBED MATHEMATICALLY.

**Leo:** RIGHT.

**Jacob Tran:** AND WHAT FLASH

DOES IN THIS SECOND EXAMPLE

WHICH IS CALLED SECURE OUR

CHERRY BLOSSOMS.

**Leo:** THIS IS BEAUTIFUL.

[Pop captions up]

**Jacob Tran:** YEAH, IT'S BY AN

ARTIST NAMED GRANT SKINNER

WHO'S FROM EDMONTON ALBERTA

ACTUALLY UM, BUT WHAT FLASH

DOES IS IT TAKES THIS VECTORED

ART AND IF IT LEFT IT IN

VECTORED FORMAT BY THE TIME IT

DREW THE THIRD TREE THIS

LAPTOP'S PROCESSOR--

**Leo:** TOO MUCH WORK.

**Jacob Tran:** YEAH, IT'D BE KILLING IT.

[Pop captions down]

**Jacob Tran:** SO WHAT IT DOES

IS IT HAS THIS ABILITY TO

[Unclear] IT TO A BIT MAP.

**Leo:** SO IT DRAWS IT AND IT

COPIES IT AS A PICTURE.

**Jacob Tran:** MM-HMM.

RIGHT TO THE BACKGROUND OF THE

BIT MAP AND FREES UP THE

PROCESSOR SO THAT YOU CAN DO

MORE COMPLEX ALGORITHMS.

**Leo:** THIS IS PRETTY SOPHISTICATED.

NOW EVERY TIME I GO BACK HERE

WILL IT BE A DIFFERENT PAINTING?

**Jacob Tran:** YES, EXACTLY, LEO.

SO WHAT THIS IS DOING IS IT'S

USING BIOLOGICAL ALGORITHMS OF

HOW SECURED CHERRY BLOSSOM

TREES GROW.

**Leo:** IT'S VERY REALISTIC.

**Jacob Tran:** WITH FLASH'S

RANDOM NUMBER GENERATOR YOU CAN

CREATE RANDOM TREES EVERY TIME

YOU REFRESH THIS -- THIS PAGE.

**Leo:** A LOT OF GENERATIVE ART

DOES PLAY ON THAT.

IT USES FRACTALS AND OTHER

TECHNIQUES TO MAKE IT LOOK

NATURAL, MAKE IT LOOK REAL.

**Jacob Tran:** EXACTLY.

**Leo:** SO UH, SO THAT'S SORT OF ART THAT IS CREATED FOR YOU KNOW, SOME KIND OF STRUCTURE.

**Leo:** RIGHT.

**Jacob Tran:** SOMETIMES YOU HAVE ART THAT UH, IS SORT OF THE BY-PRODUCT OF WHAT YOU'RE TRYING TO PRODUCE SO THIS SECOND EXAMPLE IS BY UH, JEREMY THORPE AND HE DIDN'T START OUT TRYING TO CREATE GENERATIVE ART BUT WHEN I LOOK AT IT I SEE ART AND WHAT IT IS IS IT'S CALLED DARW INSTRUMENTS SO IT'S A COMBINATION OF DARWIN AND INSTRUMENTS.

**Leo:** THEY'RE EVOLVING?

[Pop captions up]

**Jacob Tran:** YEAH, SO THEY'RE EVOLVING. AND I WISH WE HAD AUDIO BUT I SHOULD'VE TOLD YOU ABOUT THIS.

**Leo:** WELL, TURN IT UP, WE MIGHT BE ABLE TO HEAR A LITTLE BIT OF IT.

YEAH.

[Pop captions down]

**Jacob Tran:** SO BASICALLY WHAT THIS IS WHEN YOU ROLL OVER ANY OF THESE AUDIO SPECIMENS IT BASICALLY HAS AN AUDIO SIGNATURE ASSOCIATED WITH IT AND IF YOU ENJOY THAT PIECE OF AUDIO THAT IT'S PLAYING YOU CAN

ACTUALLY SELECT IT AND WHEN YOU  
SELECT TWO PIECES OF  
INSTRUMENTS THAT YOU ENJOY YOU  
CAN HYBRIDISE THEM AND CREATE OFFSPRING.

**Leo:** YOU'RE RIGHT HE WASN'T  
TRYING TO DO ART HERE BUT IT  
CAME OUT PRETTY ARTISTIC.  
THAT'S REALLY NEAT.

**Jacob Tran:** SO SOMETIMES  
GENERATIVE ART IS THE RESULT OF  
EXPERIMENTS THAT OTHER PEOPLE  
ARE TRYING TO DO.

AND WHAT HIS GOAL HERE IS HE'S  
TRYING TO CREATE ESSENTIALLY  
THE IDEAL AUDIO SIGNATURE THAT  
SORT OF BEATS WELL INSIDE OF  
YOU IN TERMS OF WHAT YOU HEAR.  
IF YOU CONTINUE HYBRIDISING  
LET'S SAY TO THE 23 ITERATION  
YOU SHOULD HAVE AN AUDIO FILE  
THAT YOU TRULY ENJOY AND  
SOMETHING YOU KNOW, SPEAKS TO  
WHAT YOU LIKE.

**Leo:** WE'RE JUST GOING TO  
HAVE TO SEND PEOPLE TO THIS  
SITE SO THEY CAN DO IT FOR  
THEMSELVES AND HEAR IT FOR THEMSELVES.  
IT'S A COMPLICATED LINK BUT  
WE'LL PUT A LINK IN THE SHOW NOTES.

**Jacob Tran:** FOR SURE.

**Leo:** I WOULD BE UP FOR THAT.

**Jacob Tran:** AND SO I HAVE TWO MORE EXAMPLES.  
ONE IS CALLED AMAZTYPE.

AND I'M GONNA TYPE THE WORD LEO  
IN HERE AND I'M GOING TO START  
THE SEARCH ENGINE.

THIS IS REALLY GREAT BECAUSE IT  
SORT OF SEGUES WHAT RYAN WAS  
DOING EARLIER UM--

**Leo:** IT'S LIKE A PHOTO MOSAIC?

**Jacob Tran:** IT'S A PHOTO  
MOSAIC BUT WHAT IT DOES IS IT  
LINKS TO A DATABASE SO IT LINKS  
TO THE amazon.com DATABASE AND  
PULLS UP EVERYTHING THAT HAS  
THE WORD LEO IN IT.

**Leo:** AND IT SPELLS MY NAME.

**Jacob Tran:** AND IT CREATES THE WORD LEO.

**Leo:** ISN'T THAT FUN?

[Pop captions up]

**Jacob Tran:** YEAH.

AND SO WHEN I WAS DOING THIS  
YESTERDAY, ACTUALLY I JUST SAW  
A BOOK HERE.

LET'S SEE IF I CAN FIND IT  
AGAIN THAT ACTUALLY HAD YOUR  
FACE ON IT.

[Pop captions down]

**Leo:** YEAH, PROBABLY ONE OF  
MY BOOKS, I'VE WRITTEN 13.  
THERE'S ONE OVER ON THE RIGHT.  
ALL THE WAY OVER -- OH, NOW IT'S BURIED.  
THERE YOU GO.

**Jacob Tran:** YOU CAN ACTUALLY  
ZOOM IN AND ZOOM OUT ON IT AND  
YOU CAN ACTUALLY SELECT THAT

BOOK AND PURCHASE IT IF YOU  
WANT ON [amazon.com](https://www.amazon.com).

[Laughter]

**Jacob Tran:** SO THE LAST--

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

**Jacob Tran:** THE LAST EXAMPLE  
I'M GOING TO SHOW YOU IS UM, IS  
SOMETHING WRITTEN IN JAVA SO  
THERE'S OTHER TOOLS THAT CAN DO THIS.

**Leo:** RIGHT.

**Jacob Tran:** FLASH IS JUST  
THE MOST DESIGNER FRIENDLY TOOL.  
THE OTHER TWO THAT ARE REALLY  
POPULAR, ONE IS JAVA AND THE  
OTHER IS PROCESSING BUT THEY  
REQUIRE A LITTLE BIT MORE  
TECHNICAL KNOWLEDGE TO CREATE THEM.

**Leo:** WHAT IS THE OTHER ONE?  
I NEVER HEARD OF IT.

**Jacob Tran:** PROCESSING.  
[Processing.org](https://processing.org) IF YOU WANT TO  
KNOW MORE ABOUT IT.

**Leo:** OKAY.

**Jacob Tran:** UM, AND SO THIS  
EXAMPLE HERE IS CALLED THINKING  
MACHINE AND IT'S BASICALLY  
COMPUTER AI SO WHEN I MOVE A  
CHESS PIECE HERE IT SHOWS ME  
WHAT THE COMPUTER IS THINKING  
AND LOOK AT THIS OUTPUT.

**Leo:** THAT'S BEAUTIFUL.

**Jacob Tran:** YEAH, IT'S BEAUTIFUL.

**Leo:** AGAIN IT'S ACTUALLY NOT

SUPPOSED TO BE ART IT'S JUST  
GENERATING TRACES WHERE THE  
COMPUTER IS THINKING BUT IT  
DOES COME OUT BEAUTIFULLY.

**Jacob Tran:** EXACTLY.

**Leo:** IT'S LIKE WEAVING.

**Jacob Tran:** MM-HMM.

SO IT'S SHOWING THE COMPUTER AI  
AND WHAT IT'S THINKING.

**Leo:** THAT IS COOL.

**Jacob Tran:** AGAIN THERE'S A  
WHOLE IMAGE GALLERY IF YOU'RE  
INTERESTED IN SEEING WHAT UH...

**Leo:** THAT'S THINKING MACHINE  
IS THAT WHAT THAT IS?

**Jacob Tran:** YEAH.

THINKING MACHINE CHESS.

**Leo:** WE HAVE A BUNCH OF  
DIFFERENT LINKS ON THIS ONE AND  
I THINK YOU'RE GONNA WANT TO GO  
TO THIS SITE AND GET THEM ALL  
BECAUSE THERE'S A LOT OF VERY  
INTERESTING, FUN, PRETTY STUFF.  
ISN'T THAT COOL?

[Pop captions up]

**Leo:** YOU CAN GET ALL OF THIS AT [labwithleo.com](http://labwithleo.com)  
[labwithleo.com](http://labwithleo.com).

JACOB TRAN IS A GAME DESIGN  
INSTRUCTOR AND OBVIOUSLY AN  
ARTIST, TOO, AT THE VANCOUVER  
FILM SCHOOL.

YOU HAVE TO BE BOTH TO DO THAT.

**Jacob Tran:** YEAH.

**Leo:** YEAH, SURE, IT'S A  
VISUAL, VISUAL MEDIUM.  
THANKS SO MUCH FOR COMING IN.  
HIS WEBSITE IS [jacobtran.com](http://jacobtran.com)  
MORE OF YOUR CALLS COMING UP.  
"THE LAB" CONTINUES RIGHT  
AFTER THESE IMPORTANT SHORT  
FILMS MADE BY GREAT ARTISTS,  
STAY HERE.  
NINE, EIGHT, COMMERCIALS, SEVEN, SIX, FIVE, COMMERCIALS,  
FOUR, THREE, TWO, ONE.

[Background music: Instrumental]

[Pop captions down]

[Commercial Break]

[Theme music playing]

**Kate:** HEY, WELCOME BACK TO  
"THE LAB WITH LEO" I'M  
KATE ABRAHAM AND NOW IT'S TIME  
FOR MY TIP OF THE DAY.  
AND CHECK OUT MY MINI BIG BEN.  
DO YOU FIND THAT YOUR KIDS  
SPEND TOO MUCH TIME WITH VIDEOGAMES?  
AND YOU WANT TO SEE MORE ARTS  
AND CRAFTS?  
[Papertoys.com](http://Papertoys.com) COULD BE THE  
ANSWER YOU ARE LOOKING FOR.  
IT'S A REALLY COOL SITE.

[Pop captions up]

**Kate:** IT'S DESIGNED FOR  
CHILDREN AND ADULTS AND WHAT IT  
IS IT HAS A NUMBER OF TEMPLATES  
OF DIFFERENT THINGS YOU CAN  
MAKE NOW THE COOL THING IS IT

DOESN'T HAVE TO BE BIG BEN.

[Pop captions down]

**Kate:** ALTHOUGH THAT IS A

NICE ENGLISHISM THERE.

IT CAN BE ANYTHING.

WHAT YOU DO IS YOU CLICK

THROUGH AND YOU CAN SEE YOU GET

THE TEMPLATE WHAT YOU WANNA

THEN DO IS PRINT THIS OUT.

NOW THE OPTION YOU'VE GOT IT

COMES OUT ON LETTER SIZED PAPER

BUT WHAT YOU COULD DO IS

ENLARGE IT ON A PHOTOCOPIER AND

WHAT YOU DO YOU BASICALLY JUST

CUT OUT -- THIS IS THE ACTUAL

PRINT THAT COMES OUT.

HERE IF YOU CAN SEE THAT THERE

THEN ONCE IT COMES THROUGH YOU

CAN BASICALLY JUST CUT THROUGH

THAT AND THEN YOU CONSTRUCT IT

AND YOU END UP WITH THIS.

**Leo:** WOW.

YOU DID A NICE JOB.

THAT'S A LOT OF CUTTING.

**Kate:** I THINK ONE THING

YOU'D HAVE TO DO ACTUALLY IS DO

IT ON CARD BECAUSE THIS IS ON

PAPER IT'S A LITTLE BIT FLIMSY.

**Leo:** YEAH.

**Kate:** AND OBVIOUSLY ENLARGED

WOULD BE REALLY COOL.

SO THERE YOU GO.

[Pop captions up]

**Kate:** IT'S CALLED papertoys.com.

**Leo:** I THINK KIDS WOULD  
ENJOY THIS AND IF YOU BUILT A  
WHOLE BUNCH OF THEM YOU COULD  
HAVE A WHOLE TOWN.

[Pop captions down]

**Kate:** THERE ARE TONS OF THINGS ON THERE.

**Leo:** YEAH.

**Kate:** YOU CAN BUILD ANYTHING YOU LIKE.

**Leo:** CRAIG SERHA DID THAT  
THOUGH NOT YOU.

**Kate:** HE HAS A CHILD.

HE'S TRAINING FOR HIS SON.

**Leo:** GIVE CRAIG CREDIT WHERE CREDIT'S DUE.

**Kate:** YEAH.

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

**Kate:** YEAH, CRAIG SPENT THE  
MORNING DOING THIS FOR ME.

**Leo:** REALLY?

**Kate:** YEAH.

**Leo:** WOW, HE'S GOOD.

**Kate:** THERE YOU GO SO papertoys.com.

**Leo:** THANK YOU, KATE, NOW  
YOU GOT A CALL FOR ME?

**Kate:** I DO WE'RE HEADING  
DOWN TO MELBOURNE VICTORIA AND  
WE HAVE DAVID.

**Leo:** GREAT.

HI, DAVID.

**David:** "HI, LEO, HOW ARE YOU DOING?"

**Leo:** I'M GREAT.

HOW ARE YOU, MATE?

**David:** "I'M WONDERFUL.

GOOD DAY MATE, HOW ARE  
YOU GOING?"

**Leo:** GOOD DAY, WE GOTTA DO  
THE -- DO PEOPLE IN AUSTRALIA  
REALLY SAY THAT?

**David:** "UH, NO, ONLY TO AMERICANS."

[Laughter]

**Leo:** I KNEW IT!

I KNEW IT!

IT'S JUST ONE OF THOSE THINGS  
AND I KNOW YOU DON'T DRINK  
FOSTERS LAGER SO THERE YOU GO.

**David:** "WE SUPPORT THAT."

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

[Pop captions up]

**David:** "YEAH, UM, LEO FIRST OF ALL I WANNA  
CONGRATULATE YOU GREAT  
SHOW CALL FOR HELP WAS  
GREAT BEFORE IT AND  
ALL YOUR PODCASTS  
YOU'VE BEEN KEEPING ME  
GOING FOR QUITE A LONG TIME."

**Leo:** DAVID, YOU'RE THE GREATEST.  
THANK YOU SO MUCH I APPRECIATE THAT.

[Pop captions down]

**David:** "NO WORRIES.

WHAT I'M TRYING TO DO  
WE'RE A MAC HOUSEHOLD.  
WE'VE GOT TWO MACS  
A MAIN AND A UM, IMAC  
ON A NETWORK."

**Leo:** OKAY.

**David:** "AND I'M TRYING TO LOOK FOR A BACKUP SOLUTION INITIALLY AND MAYBE A MEDIA SOLUTION, SERVICE SOLUTION LATER. BUT MAINLY UM, THE WHAT'S AVAILABLE FOR MACS IS A LITTLE BIT LIMITED. A LOT OF THE NAS TYPE SOLUTIONS OR LAPTOP SOLUTIONS ARE A BIT LIMITED. I'VE BEEN LOOKING ONLINE BUT THE ONE PROBLEM I HAVE WITH THE ONLINE IS GETTING THE UPLOAD ISN'T A PROBLEM BUT UM, INTERNET ACCESS IS RELATIVELY EXPENSIVE IN AUSTRALIA AND TO STAY WITHIN MY LIMIT IT WOULD TAKE ABOUT A YEAR TO RESTORE WHICH DEFEATS THE PURPOSE OF HAVING A BACKUP IN THE FIRST PLACE."

**Leo:** YEAH.

[Laughter]

**Leo:** NO KIDDING BUT YOU'RE ON THE RIGHT TRACK BECAUSE REALLY I DON'T THINK YOU'RE BACKED UP UNLESS YOU'VE GOT REALLY TWO YOU'VE GOT THE LOCAL UH, BACKUP WHICH IS QUICK AND EASY TO MAKE AND FOR THAT AN EXTERNAL HARD DRIVE IS FINE YOU DON'T HAVE TO GO CRAZY WITH THAT. THEY'RE INEXPENSIVE, THEY'RE FAST AND THAT'S REALLY KEY YOU WANNA BE ABLE TO DO SOMETHING THAT'S VERY QUICKLY AND THEN

BUT THAT'S NOT ENOUGH WHAT IF  
YOU HAVE AN EARTHQUAKE, A FIRE  
OR A FLOOD YOUR BACKUPS ARE  
RIGHT NEXT TO YOUR COMPUTER  
YOU'RE GOING TO LOSE BOTH.

[Pop captions up]

**Leo:** SO IT'S VERY IMPORTANT  
TO HAVE OFFSITE BACKUP.  
SOMETHING YOU TAKE WITH YOU.  
NOW IT COULD BE A VERY SIMPLE  
THING THAT YOU DO UH, IS TO  
HAVE TWO EXTERNAL HARD DRIVES.

[Pop captions down]

**Leo:** AND TAKE ONE TO WORK EVERY WEEK.

**David:** "MM-HMM."

**Leo:** THAT'S FAST, IT'S EASY, IT'S SIMPLE.  
AND YOU'RE GUARANTEED NEVER TO  
LOSE MORE THAN A WEEK'S WORTH  
OF DATA.

UM, YOU MENTIONED ONLINE BACKUP  
AND THAT SOUNDS LIKE THAT'S NOT  
A GOOD SOLUTION FOR YOU.

I USE ONLINE BACKUP ALL THE  
TIME AND THERE'S A LOT OF  
DIFFERENT WAYS TO DO THIS.

THERE'S mozy.com mozy.com WHICH  
IS MAC AND WINDOWS FRIENDLY.

[Pop captions up]

**Leo:** carbonite.com WHICH IS WINDOWS FRIENDLY.  
THERE'S ALSO UM, SOMETHING  
CALLED JUNGLE DISK WHICH IS  
KIND OF NEAT WHICH USES THE  
VERY INEXPENSIVE AMAZON S3

STORAGE AND YOU CAN BACKUP TO THAT.  
BUT SINCE YOUR YOU KNOW, YOUR  
DATA IS NOT WIDELY AND EASILY  
AVAILABLE BY DOWNLOAD I THINK  
YOU'RE ABSOLUTELY RIGHT.

[Pop captions down]

**Leo:** THIS WOULD BE A BAD  
IDEA SO LET'S JUST GET TWO  
EXTERNAL MAYBE THREE EXTERNAL  
HARD DRIVES AND SWAP THEM OUT.  
BRING ONE TO WORK OR SOMEWHERE  
ELSE, YOU KNOW, HOME IF IT'S AT  
WORK AND BY DOING SO I THINK  
YOU'RE GONNA KEEP A YOU KNOW,  
IT'LL BE EASY I MEAN, BACKING  
UP ISN'T EASY THEN YOU WON'T DO  
IT, RIGHT?

**David:** "THAT'S EXACTLY RIGHT."

**Leo:** AND NOBODY WILL DO IT.  
NOW I'M GOING TO SHOW YOU A  
GREAT MAC PROGRAM THAT I USE  
CALLED CHRONOSYNC IT'S FROM  
ECONTECHNOLOGY.  
C-H-R-O-N-O-S-Y-N-C.  
NOW THE ADVANTAGE OF CHRONOSYNC  
IS IT'S A LITTLE PROGRAM THAT  
WILL RUN IN THE BACKGROUND ALL  
THE TIME IF YOUR EXTERNAL DRIVE  
IS PLUGGED IN IT'LL MAKE SURE I  
COPY JUST THE HOME FOLDER BY  
THE WAY I DON'T COPY APPLICATIONS.  
I DON'T COPY THE OPERATING  
SYSTEM JUST THE HOME FOLDER.

I HAVE MY HOME FOLDER BACKED UP  
TO AN EXTERNAL DRIVE.  
CHRONOSYNC DOES IT  
AUTOMATICALLY SO YOU DON'T HAVE  
TO THINK ABOUT IT.  
IT JUST MAKES A SIMPLE COPY.  
BY THE WAY ONLY 30 BUCKS WHICH I LIKE.  
IT JUST MAKES A SIMPLE COPY.  
IT DOESN'T MAKE ANY SPECIAL,  
FANCY, UM, YOU KNOW, DATABASE  
OR ANYTHING LIKE THAT AND I  
LIKE THAT BECAUSE WHAT THAT  
MEANS IS YOU CAN RESTORE RIGHT  
FROM YOUR EXTERNAL HARD DRIVE  
WHEN SOMETHING GOES BAD.  
THERE'S ANOTHER GREAT PROGRAM  
FOR THE MAC CALLED SUPER DUPER  
UH, THEY WILL SOON BE LEOPARD  
COMPATIBLE AS OF THIS TAPING  
THEY ARE NOT BUT ONCE SUPER  
DUPER FROM SHIRT POCKET IS  
LEOPARD COMPATIBLE THAT WILL BE  
ANOTHER EXCELLENT CHOICE.  
SAME IDEA AUTOMATIC BACKUP.

[Pop captions up]

**Leo:** THE ADVANTAGE OF SUPER  
DUPER IS IT'S BOOTABLE SO IF  
YOUR HARD DRIVE DIES YOU CAN  
BOOT FROM THAT EXTERNAL DRIVE  
AND YOU'RE EXACTLY WHERE YOU  
WANNA BE YOU HAVEN'T LOST ANYTHING.

[Pop captions down]

**Leo:** BUT THE KEY IS GET A

COUPLE OF THESE, ROTATE THEM OUT.  
GET ONE OFF SITE AND YOU'LL BE FINE.  
THAT'S THE SIMPLEST, EASIEST  
WAY TO DO IT AND IT ALWAYS WORKS.

**David:** "SOUNDS GREAT, THANKS, LEO."

**Leo:** DAVID, GREAT TO TALK TO YOU.

**David:** "I'VE GOT A QUICK REQUEST SUGGESTION."

**Leo:** YES.

**David:** "UM, ANY CHANCE OF DOING A REVIEW OR  
GETTING SOME OF GUYS ONLINE FROM LINUX NCE?"

**Leo:** YEAH.

**David:** "THEY'RE DOING A LINUX VERSION OF  
A MEDIA CENTRE IT RUNS ON UBUNTU."

**Leo:** THAT'S YOU KNOW WHAT?

WE HAVE SOME GREAT LINUX GUYS  
WE'LL GIVE THEM AN ASSIGNMENT  
TO SHOW US HOW TO BUILD A LINUX  
MCE SYSTEM AND THAT'S ACTUALLY  
A VERY, VERY GOOD IDEA  
SOMETHING THAT I WANTED TO DO  
FOR A WHILE.

**David:** "SOMETHING I'M LOOKING AT DOING SO I'D  
LOVE TO GET YOUR INPUT."

**Leo:** DEAL.

DAVID, THANK YOU FOR THE INPUT  
WE LOVE HEARING YOUR SUGGESTIONS.

**David:** "NO WORRIES.

THANKS A LOT, LEO."

**Leo:** TAKE CARE, DAVID.

**David:** "I MIGHT TALK TO YOU SOON."

**Leo:** ALL RIGHT, BYE-BYE.

**David:** "COME TO AUSTRALIA."

**Leo:** YEAH, I'M COMING TO

TASMANIA I THINK IN APRIL BUT  
I'LL LET YOU KNOW THE DETAILS.

[Pop captions up]

**Leo:** WE'RE GONNA TAKE A  
BREAK WHEN WE COME BACK WE'RE  
GONNA SHOW YOU HOW TO BE AN  
INVISIBLE MAN.

RICK YAEGER WILL SHOW YOU A  
VERY COOL PHOTOSHOP TECHNIQUE.  
YOU STAY HERE FOR THAT BUT  
BEFORE WE GO ONE MORE CHANCE TO  
TAKE OUR DAILY QUIZ OF THE DAY.  
OUR QUESTION TODAY IS...

WHAT IS THE QUESTION OF THE DAY?

[Blank for boards]

**Leo:** AH, I KNOW THE ANSWER, DO YOU?  
TELL YOU WHAT STICK AROUND  
WE'LL TELL YOU WHEN "THE LAB"CONTINUES.

[Background music: Instrumental]

[Pop captions down]

[Commercial Break]

[Pop captions up]

[Background music: Instrumental]

**Leo:** WELCOME BACK TO THE  
BREAK -- THE BREAK.  
WELCOME BACK FROM THE BREAK TO  
"THE LAB."

[Blank for boards]

**Leo:** IT WAS SONY AND PHILIPS.  
PHILIPS ACTUALLY OWNS THE NAME CD.

[Pop captions down]

**Leo:** IN FACT, RECENTLY THEY  
SAID WE'RE GONNA PULL THE NAME

CD WE'RE NOT GONNA ALLOW YOU TO  
CALL IT OFFICIAL COMPACT DISC  
IF YOU PUT COPY PROTECTION ON IT.  
RIGHT ON, PHILIPS.

RIGHT ON, STICK IT TO THE MAN.  
I DON'T THINK SONY WOULD'VE  
SAID THAT.

**Rick Yaeger:** NAH.

**Leo:** LIKE SONY'S NOTORIOUS  
FOR COPY PROTECTION.

HEY, LOOK WHO'S HERE IT'S Mr. RICK YAEGER.

**Rick Yaeger:** IT'S ME.

**Leo:** THE MAC MERC.

**Rick Yaeger:** THE ME.

**Leo:** HE'S A VERY TALENTED PHOTOSHOP ARTIST.  
HE DID SOME GREAT GRAPHICS FOR  
LEOVILLE YOU WERE JUST SHOWING ME.  
I'M REALLY EXCITED ABOUT THAT  
FOR MY WEBSITE.

**Rick Yaeger:** I'LL SHOW YOU THOSE AFTER THIS.

**Leo:** IT'S GONNA BE COOL.  
BUT WE'RE NOW GONNA LEARN A  
LITTLE PHOTOSHOP TECHNIQUE HE  
CALLS THE INVISIBLE MAN.

[Pop captions up]

**Rick Yaeger:** WELL, I GOT THE  
IDEA FROM THIS WEBSITE  
filmwise.com HAVE YOU EVER BEEN THERE?

**Leo:** NO.

**Rick Yaeger:** OKAY, THEY'VE  
GOT ALL KINDS OF LITTLE MOVIE  
TRIVIA THINGS GOING ON.  
ONE OF THEIR GAMES IS CALLED THE INVISIBLES.

AND THEY TAKE A SCREEN SHOT OF A MOVIE.

**Leo:** YEAH.

**Rick Yaeger:** AND THEY TAKE  
THE HUMAN PART OUT OF THE PICTURE.

[Pop captions down]

**Leo:** AND IT'S LIKE A GAME  
YOU HAVE IDENTIFY THE ACTOR?

**Rick Yaeger:** YEAH, YOU HAVE  
TO IDENTIFY THEM AND IF YOU  
SCORE HIGH YOU GET MENTIONED ON THE SITE.

**Leo:** IT LOOKS KIND OF CREEPY  
KIND OF LIKE THE HEADLESS HORSEMAN.

**Rick Yaeger:** RIGHT.

AND -- AND UH, EVERY SO OFTEN  
THEY HAVE USER'S SUBMITTED ONES.

**Leo:** YEAH.

**Rick Yaeger:** SO I'M GONNA SHOW YOU WITH Dr. TIKI.

**Leo:** HERE'S HOW YOU DO IT.

**Rick Yaeger:** HOW YOU MIGHT  
DO A USER SUBMITTED ONE.

**Leo:** THIS IS FROM PHOTO -- IN PHOTOSHOP.

[Pop captions up]

**Rick Yaeger:** IN PHOTOSHOP  
FIRST THING YOU WANNA DO IS I'M  
GOING TO MAKE Dr. TIKI INVISIBLE.  
I'M GONNA LEAVE YOU AS IS.

[Pop captions down]

**Leo:** I THINK THAT'S A GOOD IDEA.

**Rick Yaeger:** THAT'S A GOOD IDEA.  
OKAY, SO YOU SEE HERE WITH MY  
OUTLINES I WANNA -- WANNA FILL  
THESE AREA WITH--

**Leo:** HOW PAINSTAKING DO YOU

HAVE TO DO THAT?

**Rick Yaeger:** WELL, FOR A WEBSITE LIKE THAT NOT TOO PAINSTAKING.

**Leo:** ALL RIGHT.

**Rick Yaeger:** SO YOU WANNA GET RID OF HIS HANDS, GET RID OF HIS HEAD AND JUST LEAVE THIS SPOT IN HERE SO YOU DO THAT BY CLONING AND EVERYONE LOVES CLONING SO I'M GONNA SHOW YOU FIRST HOW TO GET RID OF HIS HANDS.

**Leo:** OKAY.

**Rick Yaeger:** AND YOU LIKE YOU SAID YOU DON'T HAVE TO BE TOO PAINSTAKING BECAUSE WE'RE GOING TO CLEAN IT UP. UM, THE CLONE TOOL ALLOWS YOU TO SAMPLE THE CURRENT LAYER, THE CURRENT LAYER AND BELOW OR ALL LAYERS AT ONCE. SO THIS ALLOWS ME TO PUT MY STRATEGY LAYER ABOVE MY CLONE LAYER.

**Leo:** OKAY.

**Rick Yaeger:** AND SAY OKAY I WANNA SAMPLE THIS JEAN AREA.

**Leo:** LOOK AT THAT.

**Rick Yaeger:** AND I DON'T HAVE TO BE TOO CLEAN BECAUSE WHAT I'M GONNA DO IMMEDIATELY AFTER THIS IS--

**Leo:** SO YOU'RE CLONING THE JEAN OVER HIS HAND?

**Rick Yaeger:** YEAH.

IT LOOKS HORRIBLE BUT WHAT YOU  
CAN DO AFTER THAT IS TAKE THE  
HEEL TOOL SAMPLE THE SAME AREA  
AND GO OVER IT AGAIN.

**Leo:** IT KINDS OF SMOOTHES IT OUT.

**Rick Yaeger:** AND MAKES IT LOOK PRETTY.

**Leo:** LOOK AT THAT IT  
ACTUALLY MAKES IT LOOK PRETTY REAL.

IF YOU DO SHORT STROKES LIKE  
THAT SOMETIMES YOU GET THE  
LITTLE UH, YEAH, SEE.

**Rick Yaeger:** RIGHT.

**Leo:** YOU GOTTA MIX IT UP.

**Rick Yaeger:** YOU GOTTA MIX  
IT UP AND USE THAT HEEL AND  
CLONE TOGETHER LIKE AND IN THE  
END YOU GET SOMETHING LIKE--

**Leo:** WHEN HE TOOK SOME TIME.

**Rick Yaeger:** WHEN I TOOK SOME TIME--

**Leo:** IT LOOKED LIKE...

**Rick Yaeger:** IT LOOKED LIKE  
OH, THAT'S A LITTLE TOO FAR.

**Leo:** IT LOOKED LIKE A NECK BEARD.

**Rick Yaeger:** THERE WE GO.

**Leo:** THERE.

WOW, YOU CHOPPED HIS HEAD OFF.

**Rick Yaeger:** I CHOPPED HIS HEAD OFF.

**Leo:** WHAT YOU CLONED IS THE  
SHELF AND YOU NEEDED TO DO THAT  
BECAUSE YOU DON'T KNOW WHAT'S  
BEHIND HIS HEAD.

**Rick Yaeger:** SO YOU GOTTA MAKE THAT UP.

**Leo:** YEAH.

**Rick Yaeger:** AND I CHOOSE A  
RATHER DIFFICULT IMAGE BECAUSE  
IT'S GOT ALL KIND OF CHOCKEYS  
AND KNICKKNACKS.

**Leo:** YEAH, YOU'D LIKE A  
REGULAR IMAGE IF YOU COULD, YEAH.

**Rick Yaeger:** BRICK WALL OR  
SOMETHING WOULD BE GREAT.

**Leo:** YEAH.

**Rick Yaeger:** SO THE NEXT  
STEP IS TO FILL IN THE INNER CLOTHING.

**Leo:** THE INNER CLOTHING.

**Rick Yaeger:** THE INNER  
CLOTHING IT'S LIKE THE INNER  
CHILD BUT NOT QUITE.

**Leo:** HIS HANDS ARE GONE.

**Rick Yaeger:** HIS HANDS ARE GONE.

**Leo:** IT'S KIND OF CREEPY.

**Rick Yaeger:** WE TAKE A SPOT  
OF THE FABRIC RIGHT THERE.

**Leo:** OKAY.

**Rick Yaeger:** I'M GONNA COPY  
MERGED WHICH ALLOWS ME TO COPY  
THROUGH ALL THE LAYERS.

**Leo:** OKAY, ALL THE LAYERS  
ARE NOW COPIED.

**Rick Yaeger:** AND I PASTE AND  
YOU SEE NOTHING BECAUSE IT  
PASTES IT RIGHT ON TOP OF THE THING.

**Leo:** YEAH, YEAH.

**Rick Yaeger:** SO IF I SELECT  
THAT AGAIN IT ALLOWS ME TO NOT  
ONLY MOVE IT TO WHERE I WANT IT

BUT IF I HOLD DOWN THE OPTION  
KEY OR THE ALT KEY ON THE PC.

**Leo:** MAKE MANY COPIES.

**Rick Yaeger:** IT MAKES MANY  
COPIES WITHOUT MAKING MANY LAYERS.

**Leo:** AH, WHICH IS KEY.

**Rick Yaeger:** WHICH CAN BE ANNOYING.  
SO WE WANT THAT ONE LAYER.

**Leo:** HE'S LOOKING MORE AND  
MORE LIKE CLAUDE RAINS OKAY.

**Rick Yaeger:** YEAH.

AND AGAIN WE'RE GONNA USE THE  
HEEL TOOL TO CLEAN UP SOME OF  
THESE EDGES.

AND THEN WE MASK AND THE WAY I  
LIKE TO MASK IS TO PAINT IN  
RATHER THAN PAINT OUT.

**Leo:** OH, INTERESTING.  
SO YOU COULD GO THE OTHER WAY  
WHERE YOU -- WITH THE HISTORY  
BRUSH YOU KIND OF--

**Rick Yaeger:** RIGHT.

I LIKE TO PAINT ALONG THE OUTSIDE.

**Leo:** IT'S EASIER, HUH?

**Rick Yaeger:** BECAUSE I KNOW  
WHAT I WANT TO SHOW BUT IT'S  
HARDER TO GUESS WHERE  
EVERYTHING IS AND THEN ONCE I'M  
DONE HOW WE DOING FOR TIME?

**Leo:** 30 SECONDS.

IS THAT ENOUGH?

**Rick Yaeger:** IT'S ENOUGH TO  
SHOW BASICALLY I CAN FILL THAT.

**Leo:** NOW YOU WOULD HEEL THE EDGES PROBABLY.

**Rick Yaeger:** I'D HEEL THE EDGES AND THEN I CAN--

**Leo:** OH, I SEE THAT'S SUPPOSED TO BE THE BACK OF THE SHIRT. I GET IT.

**Rick Yaeger:** RIGHT.

**Leo:** I GUESS IF HE'S DISAPPEARED YOU'D SEE THE BACK OF HIS SHIRT.

**Rick Yaeger:** RIGHT. AND IN THE END IF I CAN GET IT TO SHOW... YOU WOULD SEE--

**Leo:** OH, YOU EVEN ADDED A LABEL.

**Rick Yaeger:** YOU ADD A LABEL.

**Leo:** THAT'S A NICE TOUCH.

**Rick Yaeger:** YEAH, IF YOU CHECK THE SHOW NOTES--

**Leo:** YOU SHADED IT A LITTLE BIT.

**Rick Yaeger:** SHADED IT WITH THE DODGE AND BURN TOOLS AND ADD THE LABEL AND SOME OF THE STITCHING.

[Pop captions up]

**Leo:** IF YOU SENT THAT TO Dr.TIKI I THINK HE WOULD BE FREAKED OUT.

**Rick Yaeger:** I DID SAY IT. I DID SEND IT TO HIM.

**Leo:** AND WHAT DID HE SAY?

**Rick Yaeger:** HE SAID YOU ROCK, RICK.

[Pop captions down]

**Rick Yaeger:** SO HE'S VERY SUPPORTIVE.

**Leo:** THAT'S CREEPY AS HELL  
IS WHAT I WOULD SAY.  
I'M GLAD YOU DID IT TO HIM NOT ME.  
ALL THE DETAILS IN THE SHOW NOTES.  
YOU CAN DO THIS STEP BY STEP.  
YOU WANNA DO ANOTHER ONE --  
SHOW US SOMETHING REAL QUICK?  
YOU LOOK ANXIOUS.

**Rick Yaeger:** UH...NO, I'M GOOD.

**Leo:** YOU LOOK LIKE YOU  
HAVEN'T FINISHED.  
ARE YOU FINISHED?

**Rick Yaeger:** I'M GOOD.

**Leo:** YOU'RE GOOD?

**Rick Yaeger:** YEAH.

[Pop captions up]

**Leo:** macmerc.com THAT'S THE  
PLACE IF YOU WANNA FIND OUT  
MORE JUST TAKE A LOOK AT THE  
TUTORIALS THEY'RE REALLY COOL.  
AND OF COURSE THE SHOW NOTES  
HAVE THE STEP BY STEP FOR THIS ONE.  
THANK YOU, RICK, Mr. MAC MERC.

**Rick Yaeger:** YOU'RE VERY WELCOME.

**Leo:** WE APPRECIATE IT.  
WE'LL BE BACK WITH A FINAL WORD  
RIGHT AFTER THIS DON'T DISAPPEAR.  
DON'T BE LIKE THAT.  
DON'T BE THAT GUY.

[Background music: Instrumental]

[Pop captions down]

[Commercial Break]

[Theme music playing]

**Leo:** THERE'S A PARTY GOING ON IN THAT CONTROL ROOM. I DON'T KNOW WHAT THEY'RE LAUGHING ABOUT IN THERE. THEY'RE PROBABLY LAUGHING AT US.

**Kate:** PROBABLY.

**Leo:** DID I DO THE WHOLE SHOW WITH MY FLY DOWN?

**Kate:** EXACTLY.

**Leo:** THAT HAS HAPPENED. I'M NOT GOING TO TELL YOU WHICH SHOW SO YOU CAN'T GO BACK AND LOOK.

**Kate:** NICE.

[Laughter]

**Leo:** NOTHING WAS REVEALED. NOTHING WAS REVEALED IT'S JUST YOU KNOW, LET'S NOT GET INTO IT.

[Pop captions up]

**Kate:** THAT'S A WHOLE DIFFERENT PART, ISN'T IT?

**Leo:** THAT'S A WHOLE DIFFERENT KIND OF A SHOW. I HOPE YOU ENJOYED EPISODE 174 I CERTAINLY DID.

**Kate:** 174.

**Leo:** THANK YOU SO MUCH FOR STOPPING BY. WE DO REMIND YOU WE LIKE TO GET YOUR CALLS FROM ALL OVER THE WORLD. AND WE HAD SOME GREAT CALLS TODAY FROM AUSTRALIA, THE STATES, HOW CAN THEY GET INVOLVED?

**Kate:** GO TO [labwithleo.com](http://labwithleo.com) FORWARD SLASH TECH QUESTIONS.

THIS FORM'S THERE JUST FILL  
THAT IN AND WE'LL GET YOU ON  
THE SHOW.

WE'LL USE YOUR SKYPE WHICH  
SHOULD BE GREAT BECAUSE WE DO  
LOVE THE WEBCAM.

**Leo:** YEAH, YEAH, THE MORE WE  
CAN SEE THE BETTER.

**Kate:** YEAH, AND NO QUESTION  
TOO SIMPLE, TOO HARD.

**Leo:** NO. WELL...

WHY DO YOU DO THAT TO ME?

**Kate:** I KEEP CHALLENGING YOU.

**Leo:** THERE ARE QUESTIONS  
THAT ARE TOO HARD AND DON'T ASK THOSE.  
THE SIMPLE ONES, PLEASE.

I BEG OF YOU.

**Kate:** THE REALLY TOUGH ONES  
ARE THE BEST.

**Leo:** YOU CAN FIND KATE'S  
BLOG THERE, SEAN'S BLOG THERE,  
LOTS OF SHOW NOTES.

IT'S A GREAT WEBSITE [labwithleo.com](http://labwithleo.com).

WE DO THANK YOU FOR BEING HERE.

TELL YOUR FRIENDS, WE'LL SEE  
YOU NEXT TIME ON "THE LAB."

[Theme music playing]

\CLOSED CAPTIONING

\PERFORMED BY:

\BROADCAST CAPTIONING &

\CONSULTING SERVICES INC.

\www.closedcaptioning.com

[Pop captions down]