Introduction to Species Counterpoint

IN 1725, AN AUSTRIAN COMPOSER AND THEORIST NAMED JOHANN JOSEPH FUX WROTE A THEORY TEXTBOOK CALLED GRADUS AD PARNASSUM, IN WHICH HE OUTLINED HIS METHOD OF TEACHING HOW TO WRITE GOOD COUNTERPOINT.

COUNTERPOINT IS THE COMBINATION OF TWO OR MORE MELODIES, EACH ONE AS IMPORTANT AND INTERESTING AS THE OTHER.

GRADUS AD PARNASSUM MEANS
"STEPS TO PARNASSUS." PARNASSUS
REFERRED TO THE HIGHEST PEAK IN
GREECE, AND WAS USED AS A
METAPHOR FOR PERFECTION.

GRADUS AD PARNASSUM WAS A BIG HIT, USED (OR AT LEAST PRAISED) BY COMPOSERS LIKE MOZART, BEETHOVEN, AND HAYDN. THE SYSTEM THAT FUX USED IS REFERRED TO AS SPECIES COUNTERPOINT, BECAUSE IT INVOLVES GOING THROUGH INCREASING LEVELS OF RHYTHMIC COMPLEXITY WHICH ARE LABELED AS SPECIES I, SPECIES II, AND SO FORTH.



1660-1741

1525-1594



INTERESTINGLY ENOUGH, THE LANGUAGE FUX WAS ADVOCATING WAS NOT THE COUNTERPOINT OF THE COMMON PRACTICE PERIOD TO WHICH HE BELONGED, BUT THE MORE STRICT RULES OF COUNTERPOINT USED BY COMPOSERS OF THE RENAISSANCE MORE THAN A CENTURY EARLIER.

SPECIFICALLY, FUX WAS A STARRY-EYED ADMIRER OF THE ITALIAN RENAISSANCE COMPOSER GIOVANNI PIERLUIGI DA PALESTRINA, WHO HE CONSIDERED TO REPRESENT THE PEAK OF COMPOSITIONAL ARTISTRY... SOMETHING HE FELT WAS BEING LOST OR EVEN SQUANDERED BY HIS BAROQUE AND CLASSICAL CONTEMPORARIES.

OF COURSE,
IT'S WORTH **POINTING OUT** THAT
FUX DIDN'T ACTUALLY **HAVE ACCESS**TO MUCH OF **MY MUSIC!**

RIGHT. SO THE LANGUAGE FUX IS TEACHING IS REALLY AN INTERESTING IDEAL: BASED PARTLY ON HIS PERCEPTIONS OF PALESTRINA'S MUSICAL LANGUAGE AS DELIVERED TO HIM THROUGH ITALIAN THEORISTS, AND PARTLY ON HIS OWN IDEAS OF WHAT HE THOUGHT THE LANGUAGE SHOULD BE.

BUT LET'S CUT FUX SOME SLACK HERE: AS THEORISTS, WE'RE ALL GUILTY OF THIS TO SOME DEGREE.

ANYWAY, LET'S GET STARTED! GOING THROUGH FUX'S STEPS
FOR LEARNING COUNTERPOINT GIVES US A GLIMPSE OF
HOW THE MASTERS LEARNED THEIR CRAFT AND A
FEEL FOR THE ENVIRONMENT IN WHICH THEY
DEVELOPED THEIR OWN MUSICAL LANGUAGES.

HURRAY! LET'S GO, GIOVANNI, AND BRING THE BEAUTIFUL LIGHT OF PERFECT COMPOSITION TO THESE EAGER STUDENTS!

YEAH, JOE, *ABOUT* THAT... YOU *DO* REALIZE THAT YOUR IDEA OF *PERFECT COMPOSITION* IS JUST A

BLISSFULLY AWESOME THING? YES, THAT'S JUST WHAT I WAS THINKING!

NO, I MEAN THAT IT'S

SUPER FUN? YAYYYY!!!!!



Species Counterpoint: Melody

BEFORE WE START COMBINING MELODIES, WE NEED TO UNDERSTAND WHAT CONSTITUTES A GOOD MELODY IN THE SYSTEM OF SPECIES COUNTERPOINT.

AND REALLY, TO BE FAIR, THESE ARE GOOD GUIDELINES FOR ANY MELODY...
IT'S JUST THAT FUX
IS A LITTLE MORE STRICT ABOUT IT.

IN GENERAL, MELODIES SHOULD BE PRIMARILY STEPWISE, WITH A SINGLE,

DEFINITE HIGH POINT OR LOW POINT. EFFECTIVE MELODIES TEND TO PROGRESS SLOWLY TOWARD
THE HIGH OR LOW POINT AND THEN MOVE BACK TOWARD THE STARTING PITCH.



OH, AND DON'T **REPEAT NOTES** LIKE THIS. CONTRAPUNTAL MELODIES NEED TO BE INTERESTING, NOT BORING.

YEAH, YEAH, PALESTRINA, WE KNOW YOU REPEATED NOTES ALL THE TIME. BUT FUX WAS PURSUING AN IDEAL. MAYBE HE FELT YOU COULD DO... BETTER?

AS YOU CAN SEE ABOVE, OCCASIONAL *LEAPS* ARE OKAY...
BUT THEY COME WITH A *BUNCH* OF *RESTRICTIONS*.

WHY, I SHHHH. LET'S JUST MOVE ON.

FIRST, LEAPS SHOULD BE NO LARGER THAN A PERFECT FIFTH, WITH TWO EXCEPTIONS: LEAPING BY A PERFECT OCTAVE, AND LEAPING UPWARD BY A MINOR SIXTH. DON'T DO THESE VERY OFTEN, THOUGH!

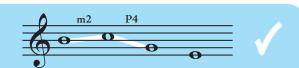


SECOND, FOR HEAVEN'S SAKE, AVOID THE TRITONE! THIS INTERVAL (AN AUGMENTED FOURTH OR DIMINISHED FIFTH) WAS ACTUALLY CONSIDERED EVIL TO MUSICIANS OF THE TIME AND WAS CALLED THE DIABOLUS IN MUSICA... THE "DEVIL IN MUSIC!"

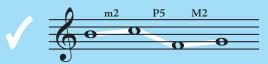
LEAPING BY A TRITONE IS BAD, BUT IT'S ALSO
IMPORTANT TO AVOID THE TRITONE IN OTHER
WAYS... FOR EXAMPLE, THIS PATTERN, WHERE
A TRITONE IS OUTLINED IN THE MELODIC LINE,
WOULD BE CONSIDERED INAPPROPRIATE.



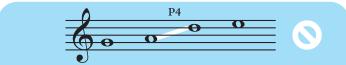
THIRD, LEAPS OF A PERFECT FOURTH NEED TO BE **PRECEDED** OR **FOLLOWED** BY **STEPWISE MOTION** IN THE **OPPOSITE DIRECTION,** TO **COUNTERBALANCE** THE LEAP. AND IF A LEAP IS **LARGER** THAN A PERFECT FOURTH, IT NEEDS TO BE COUNTERBALANCED BOTH **BEFORE AND AFTER!**



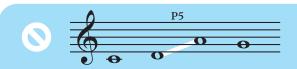
THIS **PERFECT FOURTH** IS COUNTERBALANCED BY THE STEP THAT OCCURS BEFORE THE LEAP.



THIS **PERFECT FIFTH** IS COUNTERBALANCED BY STEPS ON BOTH SIDES OF THE LEAP.



THIS **PERFECT FOURTH** IS SURROUNDED BY STEPS, BUT THEY AREN'T IN THE OPPOSITE DIRECTION.



THIS **PERFECT FIFTH** HAS STEPS ON BOTH SIDES, BUT THE FIRST ONE ISN'T IN THE OPPOSITE DIRECTION.

LASTLY, DON'T WRITE THREE OR MORE LEAPS IN A ROW. YOU CAN WRITE TWO LEAPS IN A ROW, BUT THEY NEED TO OUTLINE A MAJOR OR MINOR TRIAD. NO DIMINISHED TRIADS....
THEY HAVE TRITONES IN THEM!

"FIRST SPECIES" COUNTERPOINT IS THE MOST RHYTHMICALLY SIMPLE TYPE OF COUNTERPOINT: BOTH VOICES HAVE THE EXACT SAME RHYTHM. AS A RESULT, IT'S ALL ABOUT THE INTERVALS!

AND THAT TAKES US TO THE FIRST RULE: ONLY USE CONSONANT INTERVALS.





AND IT'S IMPORTANT TO KNOW THAT TO THE SIXTEENTH-CENTURY EAR, THE PERFECT FOURTH WAS ALSO DISSONANT!



INTERVAL IS WRITTEN IN BETWEEN THE TWO VOICES? YOU SHOULD DO THAT TOO. IT'S HOW ROCK STARS DO IT!

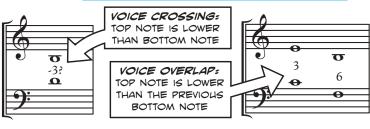
SEE HOW THE

NUMBER OF THE

NO SECONDS!

NO SEVENTHS!

NEXT RULE: VOICES CAN'T CROSS OR OVERLAP.



AND THEN: THIRDS AND SIXTHS ARE FINE, BUT NO MORE THAN THREE IN A ROW.





THE NEXT RULES HAVE TO DO WITH PERFECT INTERVALS (P1, P5, AND P8... REMEMBER, P4 IS DISSONANT!), WHICH PLAY IMPORTANT ROLES AND REQUIRE SOME SPECIAL TREATMENT.

BECAUSE THEY ARE SUCH A STRONG SONORITY WHICH CAN STOP THE COUNTERPOINT IN ITS TRACKS, UNISONS CAN ONLY BE USED ON THE FIRST OR LAST NOTES OF AN EXERCISE.

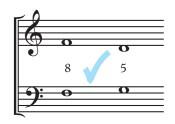
ALL PERFECT INTERVALS MUST BE APPROACHED WITH CARE IN ORDER TO PRESERVE VOICE INDEPENDENCE. FIRST OF ALL, NEVER REPEAT A PERFECT INTERVAL!

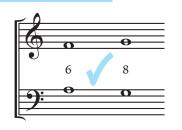


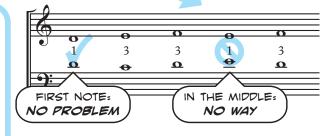
IN FACT, APPROACHING PERFECT INTERVALS WITH BOTH VOICES MOVING IN THE SAME DIRECTION IS BAD, EVEN IF IT'S FROM AN IMPERFECT INTERVAL.

PLUS, IT'S ALSO NOT OKAY TO APPROACH A PERFECT INTERVAL WITH LEAPS IN BOTH VOICES!

SO IT'S **EASIEST** TO REMEMBER WHAT YOU **CAN** DO: APPROACH PERFECT INTERVALS USING CONTRARY MOTION, WITH AT LEAST ONE VOICE MOVING BY STEP.







IN FACT, EACH EXERCISE MUST BEGIN AND END WITH A PERFECT INTERVAL WITH THE TONIC IN THE LOWER VOICE.

> WAIT ... WHY IS THAT LAST BIT IMPORTANT?

FOR THESE EXERCISES, YOU'LL BE WRITING A MELODY ABOVE OR BELOW AN ALREADY-WRITTEN MELODY, CALLED A CANTUS FIRMUS.

THE CANTUS FIRMUS WILL ALWAYS START AND END ON THE TONIC NOTE ... SO IF YOU ARE WRITING COUNTERPOINT BELOW THE CANTUS FIRMUS, YOU CAN'T START WITH A PERFECT FIFTH, BECAUSE YOU'RE LOWER VOICE WON'T BE THE TONIC. YOU'LL HAVE TO START WITH A UNISON OR OCTAVE INSTEAD!

Species Counterpoint: Species II

SECOND SPECIES
COUNTERPOINT ADDS A
TOUCH MORE
COMPLEXITY:
THERE ARE TWO NOTES
AGAINST EVERY ONE IN
THE CANTUS FIRMUS.



FORTUNATELY, THAT DOESN'T MAKE IT TWICE AS DIFFICULT: IN FACT, MOST OF THE PREVIOUS RULES STILL APPLY WITHOUT ANY CHANGES.

THERE ARE ONLY A FEW EXCEPTIONS:

SPECIES I RULE: SPECIES II

LEAPS ARE STILL FINE, BUT DON'T LEAP TO A NEW HIGH POINT ON A DOWNBEAT.

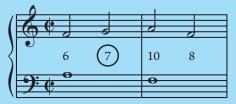
NO LEAPS LARGER THAN A PERFECT FIFTH*



THE A IN THE THIRD MEASURE IS A NEW HIGH POINT FOR THE LINE, SO LEAPING TO IT ON THE DOWNBEAT PLITS A LOT OF WEIGHT ON THAT ONE NOTE, MAKING IT STICK OUT OF THE TEXTURE.

*EXCEPTING, OF COURSE, ASCENDING MINOR SIXTHS AND PERFECT OCTAVES, BUT YOU ALREADY KNEW THAT.

ONLY USE CONSONANT INTERVALS. STILL TRUE... FOR **DOWNBEATS**. FOR THE **UNACCENTED** BEATS, DISSONANT INTERVALS ARE **FINE**, AS LONG AS THEY HAPPEN AS **PASSING TONES**: NOTES THAT FILL IN A **THIRD** CREATED BY SURROUNDING NOTES.



OH, AND NOTICE HOW *DISSONANT INTERVALS*HAVE THEIR *NUMBERS* CIRCLED? *NICE,* HUH. *YOU* SHOULD DO IT TOO.

UNISONS
CAN ONLY
BE USED
ON THE
FIRST AND
LAST NOTES.



UNISONS CAN BE USED ON UNACCENTED NOTES... JUST BE CAREFUL ABOUT CROSSING OR OVERLAPPING VOICES!

APPROACH
PERFECT
INTERVALS
USING
CONTRARY
MOTION
WITH AT LEAST
ONE VOICE
MOVING
BY STEP.

THIS RULE **STILL APPLIES:** IF YOU USE A PERFECT INTERVAL ON A **DOWNBEAT,** YOU NEED TO USE **CONTRARY MOTION** FROM THE IMMEDIATELY PRECEDING NOTES, AND AT LEAST **ONE VOICE** MUST MOVE BY **STEP.**



HOWEVER, YOU MUST ALSO BE CAREFUL NOT TO HAVE THE SAME PERFECT INTERVAL ON TWO SUCCESSIVE DOWNBEATS. THIS IS CALLED PARALLEL PERFECT INTERVALS AND IT'S GOING TO BE A NO-NO FOR A GOOD LONG TIME.

(IN FACT, IT'S ALSO NOT OKAY TO HAVE PARALLEL PERFECT INTERVALS FROM THE UNACCENTED BEAT TO THE DOWNBEAT, BUT IF YOU ARE APPROACHING WITH CONTRARY MOTION, THAT WOULDN'T HAPPEN ANYWAY.)

NOT TOO BAD, IS IT? YEAH! BRING ON THIRD SPECIES!

Species Counterpoint: Species III



FIRST: DON'T LEAP MORE THAN ONCE IN THE SAME DIRECTION.



SECOND: ALL INTERVALS LARGER THAN A THIRD, INCLUDING PERFECT FOURTHS, MUST BE COUNTERBALANCED BY STEPS ON BOTH SIDES.



THIRD: AS USUAL, THE FIRST NOTE IN EACH MEASURE MUST BE CONSONANT. THE THIRD NOTE IN THE MEASURE IS ALSO USUALLY CONSONANT, BUT IT CAN BE DISSONANT... AS LONG AS IT'S THE ONLY DISSONANT NOTE IN THE MEASURE.

AS FOR THE SECOND AND FOURTH NOTES, THEY CAN BE DISSONANT, AS LONG AS THEY ARE PASSING TONES OR NEIGHBOR TONES.

A **NEIGHBOR TONE** IS A NOTE APPROACHED BY **STEP**, WHICH RESOLVES **BACK** TO THE NOTE IT CAME FROM.

WAIT, DISSONANCES
ON BEAT TWO?
RIJT I NEVED

QUIET, PALESTRINA.

FOURTH: THERE ARE TWO SPECIAL FIGURES WHICH ACT AS EXCEPTIONS TO THE RULES ABOVE.



HEY, THAT MAKES FIVE RULES! NO FAIR!

WELL, THEY'RE KIND OF SIMILAR ...

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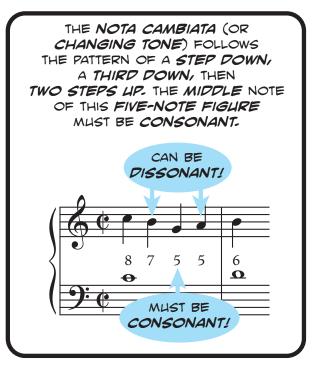
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THE **DOUBLE NEIGHBOR TONE**INVOLVES AN **UPPER NEIGHBOR**AND A **LOWER NEIGHBOR** PLAYED
ONE AFTER ANOTHER, THEN
RETURNING TO THE NOTE THAT
APPROACHED IT.



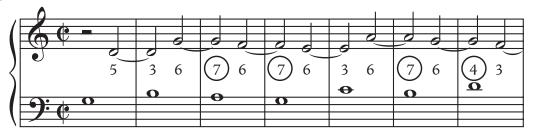
THIS FIGURE CAN BE INVERTED, SO THE UPPER AND LOWER NEIGHBORS SWITCH PLACES.



Species Counterpoint: Species IV



WITH THE FOURTH SPECIES, WE STOP USING SMALLER NOTE VALUES AND BACK UP A BIT TO SPECIES I. BUT INSTEAD OF HAVING THE NOTES MOVE AT THE SAME TIME, SPECIES IV INVOLVES THE VOICES BEING OFFSET FROM ONE ANOTHER.



DISSONANCES IN SPECIES IV MUST BE IN THE FORM OF SUSPENSIONS.
A SUSPENSION IS A DISSONANT NOTE THAT IS APPROACHED BY BEING HELD OVER - SUSPENDED - FROM THE PREVIOUS NOTE.

THE BIGGEST DIFFERENCE WITH SPECIES IV IS THE FACT THAT DISSONANCES ARE PERMITTED ON THE DOWNBEAT. BUT AS YOU MIGHT EXPECT, THEY HAVE TO FOLLOW CERTAIN SPECIFIC RULES.

OH YOU DON'T SAY.

ANOTHER IMPORTANT DEFINING
CHARACTERISTIC IS THAT THE
SUSPENSION RESOLVES DOWN
BY STEP. IF IT DOESN'T RESOLVE
DOWN BY STEP, IT'S NOT A
SUSPENSION!

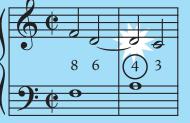


WE LABEL SUSPENSIONS BY THE INTERVALS OF THE SUSPENSION AND RESOLUTION, SO THIS ONE WOULD BE CALLED A 7-6 SUSPENSION.

IN THIS CASE, THE SUSPENSION
IS THE F ON THE DOWNBEAT OF
THE SECOND MEASURE. IT'S
PREPARED BY THE F IN THE
PREVIOUS MEASURE, AND RESOLVES
DOWN TO THE E.

SUSPENSIONS ARE GREAT, BY THE WAY, BUT DON'T USE THE SAME ONE MORE THAN THREE TIMES IN A ROW, OR OF FUX WILL RELEASE THE HOUNDS.

SIMILARLY, IN
THIS EXAMPLE,
THE SUSPENDED
NOTE IS THE D,
WHICH FORMS A
FOURTH WITH



THE A. IT MOVES TO A C, A THIRD ABOVE THE BASS, MAKING IT A 4-3 SUSPENSION.

THE 7-6 AND 4-3 SUSPENSIONS ARE THE ONLY ONES FUX ALLOWS WHEN WRITING COUNTERPOINT ABOVE THE CANTUS FIRMUS.

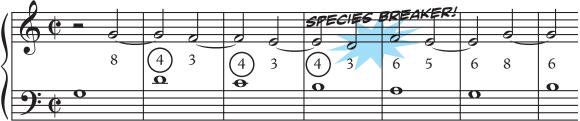
THE ONLY SUSPENSION FUX ALLOWS WHEN WRITING COUNTERPOINT BELOW THE CANTUS FIRMUS IS THE 2-3 SUSPENSION, IN WHICH THE SUSPENDED NOTE FORMS A SECOND WITH THE CANTUS FIRMUS, THEN RESOLVES DOWN TO A THIRD. (WHEN THIS SUSPENSION IS WRITTEN AN OCTAVE LOWER, IT IS SOMETIMES CALLED A 9-10 SUSPENSION.)

SEE HOW WE RESOLVE TO A LARGER INTERVAL, UNLIKE THE 7-6 OR 4-3? WE'RE BELOW THE CANTUS FIRMUS, SO WE MOVE AWAY FROM IT. BECAUSE SUSPENSIONS ALWAYS RESOLVE DOWN!



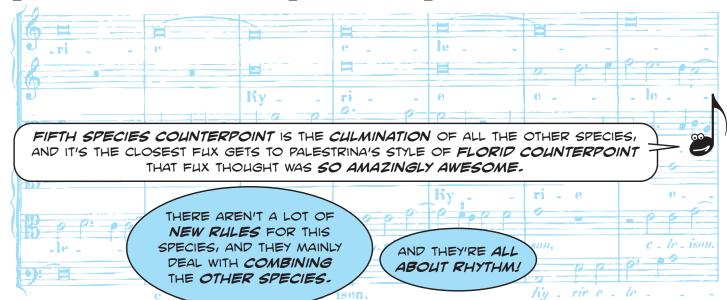
IN SPECIES IV, YOU'RE DEALING WITH A LOT OF LIMITATIONS WITH MELODY AND COUNTERPOINT, SO YOU WILL SOMETIMES GET TRAPPED IN A SITUATION WHERE NOTHING WILL WORK. WHEN THIS HAPPENS, YOU ARE ALLOWED TO "BREAK SPECIES": FORGET THE TIE AND SLIP INTO SPECIES II FOR A COUPLE OF NOTES.

FOR EXAMPLE, HERE WE BREAK SPECIES SO WE CAN AVOID WRITING A FUX-ENRAGING FOUR 4-3 SUSPENSIONS IN A ROW!



DON'T GO CRAZY WITH THIS, THOUGH... SPECIES IV COUNTERPOINT SHOULD EMBRACE SUSPENSIONS, NOT AVOID THEM. IT'S BEST TO BREAK SPECIES ONLY RARELY. UNFORTUNATELY, SOMETIMES THAT MEANS BACKING WAY UP AND CHOOSING A DIFFERENT STARTING PITCH FOR YOUR COUNTERPOINT!

Species Counterpoint: Species V



FIRST, AIM FOR A GOOD MIX OF DIFFERENT SPECIES. DON'T STAY TOO LONG WITH ANY PARTICULAR NOTE VALUE BEFORE SWITCHING TO SOMETHING ELSE, SO YOUR COUNTERPOINT REMAINS RHYTHMICALLY INTERESTING.



Combine all ingredients in a grand staff and mix well. Heat through to prevent unjustified dissonances from forming. Let cool and serve on period instruments. WHEN YOU'RE USING A PARTICULAR NOTE VALUE, FOLLOW THE RULES OF THE CORRESPONDING SPECIES. SO WHEN YOU ARE USING HALF NOTES, MAKE SURE YOU'RE OBEYING THE RULES OF SPECIES II. IF YOU TIE TWO HALF NOTES TOGETHER, KEEP THE LAWS OF FOURTH SPECIES.

LEAVE THE WHOLE NOTES OUT, THOUGH, UNTIL YOU GET TO THE END OF YOUR EXERCISE. IF YOU GO ALL SPECIES I IN THE MIDDLE, THINGS GET REAL BORING REAL FAST.



NEXT, SPECIES III AND IV CAN BE COMBINED BY USING DOTTED HALF NOTES, WHICH ALWAYS HAVE TO START ON A STRONG BEAT.





ANY **DISSONANCES** INVOLVED WITH THIS KIND OF FIGURE HAVE TO FOLLOW THE RULES OF **FOURTH SPECIES COUNTERPOINT**: THAT IS, THEY NEED TO BE **SUSPENSIONS** PREPARED AND EXECUTED BY THE **DOTTED HALF NOTE** AND **RESOLVED IMMEDIATELY AFTERWARD.**

LASTLY, YOU CAN INCLUDE **EIGHTH NOTES** TO ADD MORE **RHYTHMIC INTEREST**, AS LONG AS YOU FOLLOW A FEW **RESTRICTIONS**:



THEY HAVE TO OCCUR
IN PAIRS ON WEAK
BEATS,

BOTH NOTES MUST BE APPROACHED AND RESOLVED BY STEP,

EIGHTH NOTES? I LOVE THOSE GLYS! ONLY ONE PAIR SHOULD BE USED IN ANY GIVEN MEASURE!