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# Katya



Updated Jan'2012



## Katya for Android

*Instruction Manual*



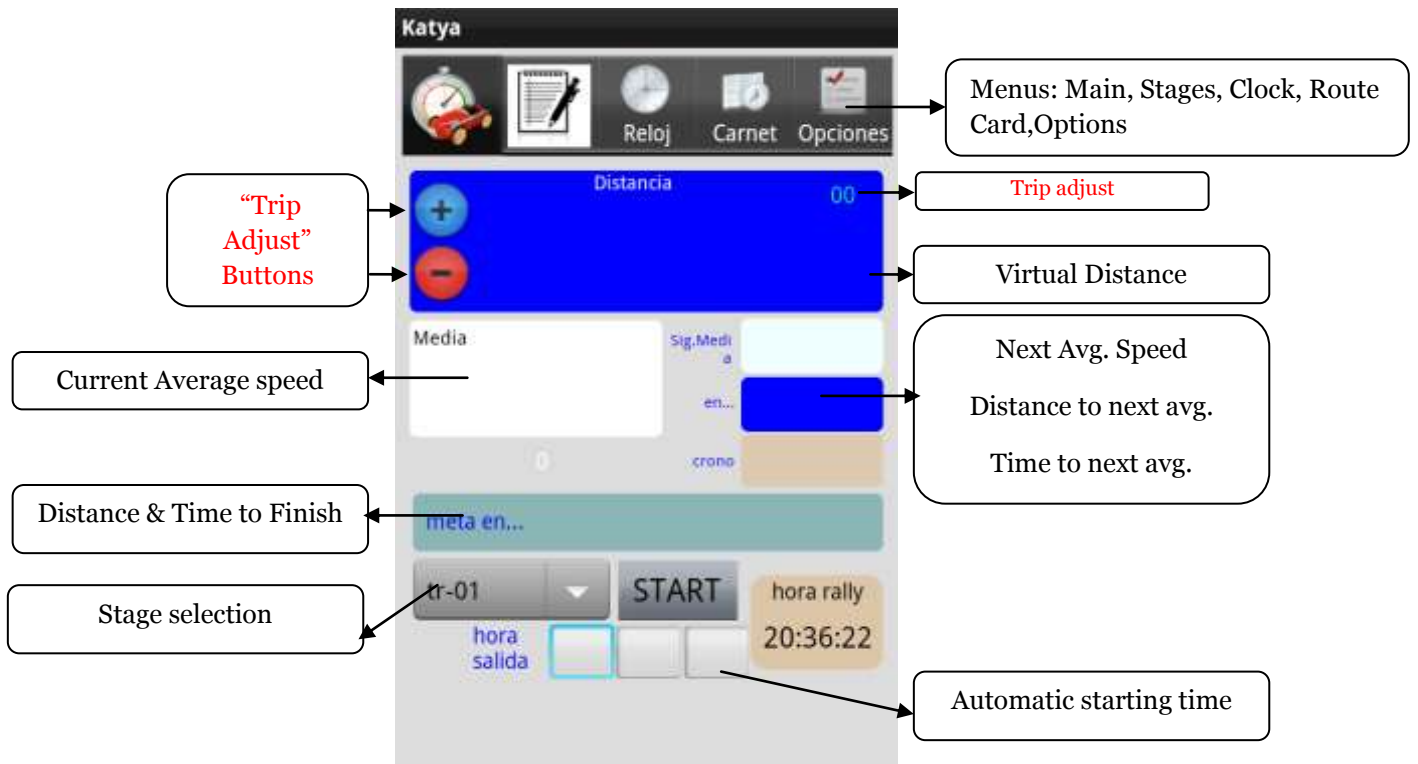
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## Getting Started

After starting the application, we will see this screen:





After 3.0 version, is possible to insert blank rows in Stages screen, for example if we have previously inserted the average speeds, and we want to add a cross, we can move down the data from the selected point.

To do this, “long click” (push without release) in the Distance, Average Speed or Time box that we want to move down.



## Clock Synchronization



At this screen we see the device time, and below there are three input boxes to insert hours, minutes and seconds.



By pushing Synchronize, the device time will set to the indicated time.

If we want to go back to real time, we have to click “Back to real time”.

“Block Buttons” button avoids to re-synchronize until clicking “Unblock buttons”, to avoid a non desirable synchronization.

## Route Card



In this screen we will indicate rally or section starting time, without using points between hours, minutes and seconds, that's it: 203300 to convert to 20:30:00.

After that, we indicate stage number and given time to reach it, for example to the Stage 1 we have 15 minutes, so we will write "1", "001500", and we'll see the forecast starting time.

Continue with the rest of stages or sectors, or we can also add a time without stage number, to, for example, adding a neutralization time.

If there is any unexpected issue and we start late, or simply we don't know previously the exact starting time, but we know every sector's time, we can modify Starting time and automatically the rest of scheduled time will calculate again.

Currently you can insert up to 12 different stages, normally enough for a Section. Next versions of Katya for Android will increment this amount.



## Startup





Select the stage to run.

We'll see, if we have inserted data in the Route card, that it suggest us the starting time. If not, we have to manually insert the starting time (hours, minutes, seconds), o leave blank if we want to start manually.

Now push the START button. If we inserted starting time, we'll see a countdown and Katya will start automatically. If we have left in blank, it will start immediately. We will hear a "ring" sound.

## Trip Adjust buttons operation:

If our driving stile, calibration or other factors provoke a difference between our tripmaster distance and the organization distance, we can adjust this difference "virtually":

- If our tripmaster distance is **BIGGER** than the organization distance, push "PLUS" button . Each touch will add 10 meters to the virtual distance.
- If our tripmaster distance is **LESS** than the organization distance, push "MINUS" button . Each touch will substract 10 meters to the virtual distance.


In this way, matching real distance with virtual distance allow us to be more accurate.

*\*configurable at Options*

We can see the adjustment at the right top of the screen, close to the virtual distance.



**Warning!** The adjustment is "virtual", so our tripmaster will keep a gap against "real" distance (organization), keep it in mind when arriving to a crossing.

Tip: By pushing the buttons without release  , it will appear a dialog message that allows to void the adjustment quickly, setting it back to zero.



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## Crossing warning use:

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If we have indicated a crossing when inserting the stage, when the virtual distance is less than the warning distance (by default 100mt, configurable at Options), we'll hear a alarm that repeats until reaching the crossing.

We can see the inserted crossing angle in the right top of the screen, close to virtual distance.



***Crossing warning is also virtual, if we are “late” (we cannot keep the average speed), the crossing warning will sound before reaching the crossing.***

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## Options

Selecting Options tab, in the screen you can see these configurable features:



Although the options can be modified during a running stage, it is recommended to do it before starting the stage.

- **Beep:** allows to select the rhythm of the beep, every 100 mt (by default), or every 50 mt.
- **Crossing Warning:** indicate the distance at we want to be warned when approaching a crossing. By default 100 meters.
- **Average Speed Change Ring:** by default activated. When we start the stage, and at every Average Speed change, ring sounds.
- **Volume:** Adjusts sound warnings volume.
- **Correction factor:** Correction factor is used to correct calibration error in those tripmasters that don't allow accurate calibration. After doing the calibration zone, you can insert the value resulting from this division:

$$\frac{\text{Tripmaster Distance}}{\text{Organization Distance}}$$


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Organization Distance

The resulting factor should be always near 1, below (por example 0,934) or above (for example 1,0135). You can use decimal point or comma.

- **Trip Adjust:** indicate number of meters that will be fixed every time we push “plus” or “minus” buttons at the main screen.
- **Change Orientation:** alternates screen orientation from vertical to horizontal and vice versa. Horizontal view is very useful during the stage, because the screen is optimized:



This view is also useful to place a Tablet comfortably at the dashboard.