



ДОСНОВНЕ КВАТЕРИ

• Несколькo сoтeн функций

- **imgproc** - filtering, geometrical transformations (resize, affine and perspective warping, generic table-based remapping), color space conversion, histograms...



video-motion estimation, background subtraction, and object tracking algorithms

- **calib3d** - basic multiple-view geometry algorithms, single and stereo camera calibration, object pose estimation, stereo correspondence algorithms, and elements of 3D reconstruction.



features2d - alien features, descriptors, and descriptors.

- **objdetect** - detection of objects and instances of the predefined classes (for example, faces, eyes, mugs, people, cars, and so on).

- **highgui** - an easy-to-use interface to video capturing, image and video codecs, as well as simple UI capabilities.

У3: Многофункциональный проект contrib



ОСНОВНЫЕ КАТЕГОРИИ

- Несколько сотен функций
- **imgproc** - filtering, geometrical transformations (resize, affine and perspective warping, generic table-based remapping), color space conversion, histograms...
- **video** - motion estimation, background subtraction, and object tracking algorithms
- **calib3d** - basic multiple-view geometry algorithms, single and stereo camera calibration, object pose estimation, stereo correspondence algorithms, and elements of 3D reconstruction.
- **features2d** - salient feature detectors, descriptors, and descriptor matchers.
- **objdetect** - detection of objects and instances of the predefined classes (for example, faces, eyes, mugs, people, cars, and so on).
- **highgui** - an easy-to-use interface to video capturing, image and video codecs, as well as simple UI capabilities.
- v3: Многие высокоуровневые функции ушли в отдельный проект opencv-contrib

ОСНОВНОЙ ТИП ДАННЫХ

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- **Mat** - двумерный или многомерный массив
- Автоматически превращается в `numpy.ndarray` в питоновском варианте