영상처리 실제 5주차 실습_OpenCV의 기초(5)

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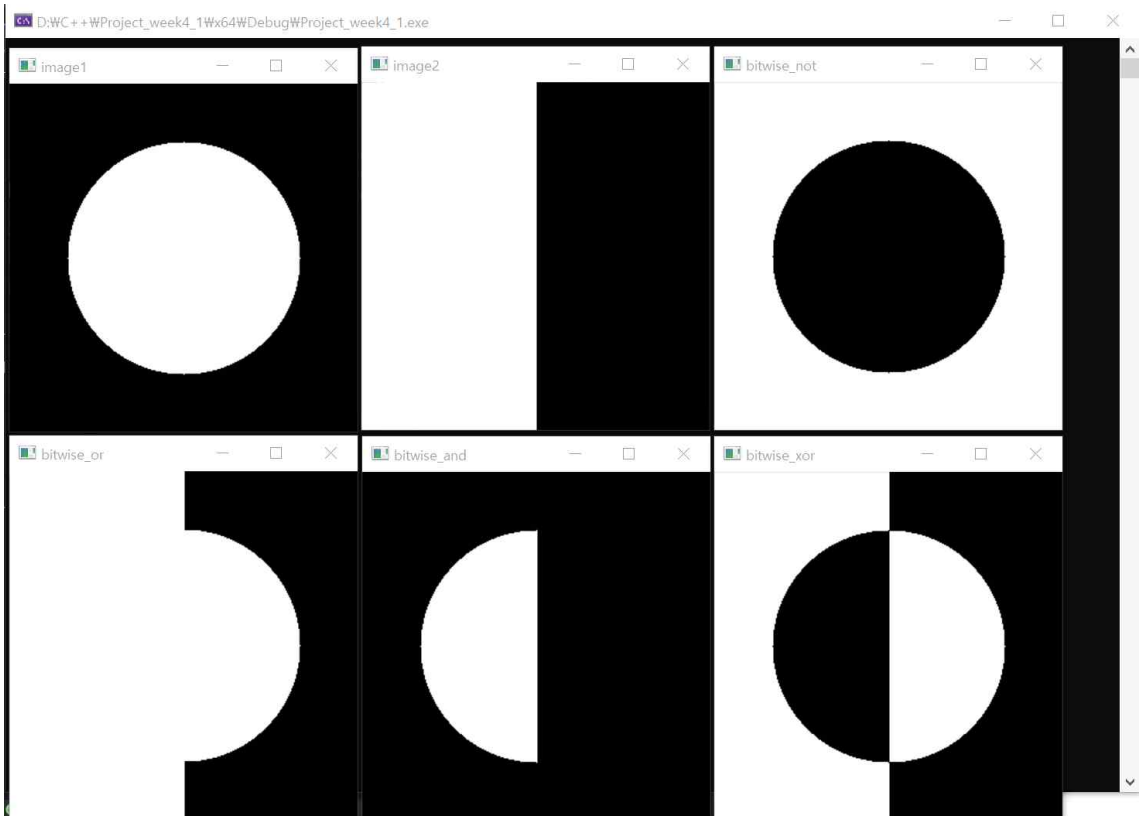
```
#include <opencv2/opencv.hpp>

using namespace std;
using namespace cv;

void page8()
{
	Mat ch0(3, 4, CV_8U, Scalar(10));
	Mat ch1(3, 4, CV_8U, Scalar(20));
	Mat ch2(3, 4, CV_8U, Scalar(30));

	Mat bgr_arr[] = { ch0, ch1, ch2 };
	Mat bgr;
	merge(bgr_arr, 3, bgr);
	vector<Mat> bgr_vec;
	split(bgr, bgr_vec);

	cout << "[ch0] = " << endl << ch0 << endl;
	cout << "[ch1] = " << endl << ch1 << endl;
	cout << "[ch2] = " << endl << ch2 << endl << endl;

	cout << "[bgr] = " << endl << bgr << endl << endl;
	cout << "[bgr_vec[0]] = " << endl << bgr_vec[0] << endl;
	cout << "[bgr_vec[1]] = " << endl << bgr_vec[1] << endl;
	cout << "[bgr_vec[2]] = " << endl << bgr_vec[2] << endl;
}


void page16()
{
	Mat image1(300, 300, CV_8U, Scalar(0));
	Mat image2(300, 300, CV_8U, Scalar(0));
	Mat image3, image4, image5, image6;

	Point center = image1.size() / 2;
	circle(image1, center, 100, Scalar(255), -1);
	rectangle(image2, Point(0, 0), Point(150, 300), Scalar(255), -1);

	bitwise_or(image1, image2, image3);
	bitwise_and(image1, image2, image4);
	bitwise_xor(image1, image2, image5);
	bitwise_not(image1, image6);

	imshow("image1", image1), imshow("image2", image2);
	imshow("bitwise_or", image3), imshow("bitwise_and", image4);
	imshow("bitwise_xor", image5), imshow("bitwise_not", image6);
	waitKey();
}

int main()
{
	page8();
	page16();

	return 0;
}
```

결과화면

<page8 결과화면>



<page16 결과화면>