

## Level Set

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### ***Gradient Descent***

```
initialize();  
while(!is_terminate)  
{  
    update();  
}
```

### ***K Means***

```
initialize(); // initialize k random centers  
while(!is_terminate())  
{  
    update_feature();  
    update_center();  
}
```

### ***CV***

```
initialize(); // initialize a height function (some different initialization  
methods)  
while(!is_terminate())  
{  
    update_level_set();  
    update_center();  
}
```

### ***LBF***

```
initialize();  
while(!is_terminate)  
{  
    do CV model in each pixel  
}
```