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Subject: Re: Possible inconsistency with Rect::Contains() right-bottom bounds?

Posted by [mirek](#) on Sun, 16 Feb 2020 18:04:04 GMT

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Oblivion wrote on Sun, 16 February 2020 13:06Hello,

I've noticed that:

```
template <class T>
bool Rect_<T>::Contains(T x, T y) const {
    return x >= left && x < right && y >= top && y < bottom;
}
```

```
    ---      ---
    x        x
```

```
template <>
inline bool Rect_<double>::Contains(double x, double y) const {
    return x >= left && x <= right && y >= top && y <= bottom;
}
```

```
    ---      ---
    ^        ^
```

```
template <class T>
bool Rect_<T>::Contains(const Rect_<T>& r) const {
    return r.left >= left && r.top >= top && r.right <= right && r.bottom <= bottom;
}
```

```
    ---      ---
    ^        ^
```

Best regards,  
Obiivion

Thats intentional. It might be inconsistent, but for doubles it is better to include bottom-right corner into the rectangle.

Mirek

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