
```
function CbnDot = timeRotationDot(t)
```

```
CbnDot = [-sin(t), sin(t^2)*cos(t) + 2*t*cos(t^2)*sin(t), cos(t^2)*cos(t) -  
2*t*sin(t^2)*sin(t);  
0, -2*t*sin(t^2),  
-2*t*cos(t^2);  
-cos(t), 2*t*cos(t^2)*cos(t) - sin(t^2)*sin(t), -cos(t^2)*sin(t) -  
2*t*sin(t^2)*cos(t)];
```

```
end
```

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