

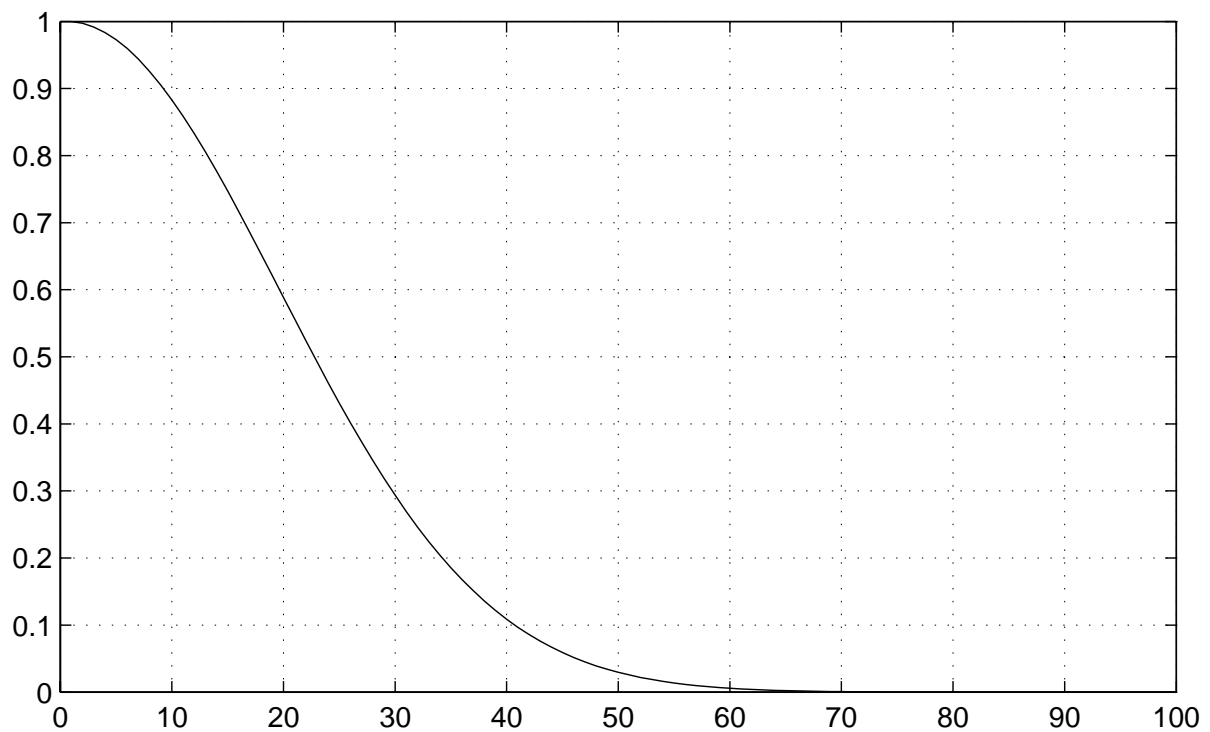
Birthdays.m

```
function p = Birthdays(n)
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%
% Let 'A' be the event that that no two people
% in a room with 'n' people have the same birthday.
%
% p = Prob(A)

% initialize
p = 1;

% loop through and multiply the remaining terms
for k = 1:n-1
    p = p*(1-k/365);
end

return
```



The figure was made with the following commands:

```
>> n = [1:100];
>> for k = 1:length(n), p(k) = Birthdays(n(k)); end
>> plot(n,p)
>> grid on
```