

```
function pol_pi = init_unif_policy(MZ,
maxNStates,maxNActions,maxNPii,maxNPjj,maxNVii,maxNVjj,maxNAii,maxNAjj)
% INIT_UNIF_POLICY - Initializes a uniformly random policy
%
% Written by:
% --
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%
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%
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% above email address.
%
%-----

pol_pi = zeros(maxNStates,maxNActions);
for si=1:maxNStates,
    [pii,pjj,vii,vjj] = ind2sub([maxNPii,maxNPjj,maxNVii,maxNVjj],si); vii=vii-1;
    vjj=vjj-1; % vii/vjj \in [0,5] ... checked 2008-01-09
    % if this is not a valid position state return
    if( MZ(pii,pjj)~=1 ) continue; end
    % if this is not a valid velocity state return
    if( vii==0 && vjj==0 ) continue; end
    possActs = velState2PosActions( [vii,vjj],maxNVii,maxNVjj,maxNAii,maxNAjj );
    uniprob = possActs/sum(possActs);
    pol_pi(si,:) = uniprob;
end

if( 0 )
    figure; imagesc( pol_pi ); colorbar;
end
```