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R11

 $load('D:\Jaler\OpenBCI_GUI\DataSkripsi\R11.txt'); data_raw = R11;$

R12

```
load('D:\Jaler\OpenBCI_GUI\_DataSkripsi\R12.txt');
data_raw = R12;

% step 2. Notch 50Hz
[b,a] = butter(2,[49 51]/(fs/2), 'stop');
% bandpass Filter
[d,c] = butter(2,[0.5 50]/(fs/2), 'bandpass');
for i=1:4
  data_raw(:,i)=filter(b,a,data_raw(:,i));
  data_raw(:,i)=filter(d,c,data_raw(:,i));
end

for i=1:4
```

R11

R12

```
N{i} = [{data_raw(1616:2224,i)};{data_raw(3242:4045,i)};
{data_raw(5059:5665,i)};...
         {data_raw(6679:7482,i)};{data_raw(8498:9102,i)}];
    L\{i\} = [\{data_{raw}(607:1621,i)\}; \{data_{raw}(4046:5058,i)\}; \}
{data_raw(7483:8497,i)}];
    R{i} = [{data_raw(2225:3241,i)};{data_raw(5666:6678,i)};
{data_raw(9103:10113,i)}];
end
for i=1:4
n\{1,i\} = N\{1,i\}\{1,1\}(1:400,1);
    n\{2,i\} = N\{1,i\}\{1,1\}(201:600,1);
    n{3,i} = N{1,i}{2,1}(1:400,1);
    n\{4,i\} = N\{1,i\}\{2,1\}(201:600,1);
    n{5,i} = N{1,i}{2,1}(401:800,1);
    n\{6,i\} = N\{1,i\}\{3,1\}(1:400,1);
    n{7,i} = N{1,i}{3,1}(201:600,1);
    n\{8,i\} = N\{1,i\}\{4,1\}(1:400,1);
    n{9,i} = N{1,i}{4,1}(201:600,1);
    n\{10,i\} = N\{1,i\}\{4,1\}(401:800,1);
    n\{11,i\} = N\{1,i\}\{5,1\}(1:400,1);
    n\{12,i\} = N\{1,i\}\{5,1\}(201:600,1);
    1\{1,i\} = L\{1,i\}\{1,1\}(1:400,1);
    1{2,i} = L{1,i}{1,1}(201:600,1);
    1{3,i} = L{1,i}{1,1}(401:800,1);
    1{4,i} = L{1,i}{1,1}(601:1000,1);
    1{5,i} = L{1,i}{2,1}(1:400,1);
    1\{6,i\} = L\{1,i\}\{2,1\}(201:600,1);
    1{7,i} = L{1,i}{2,1}(401:800,1);
    1\{8,i\} = L\{1,i\}\{2,1\}(601:1000,1);
    1{9,i} = L{1,i}{3,1}(1:400,1);
    1\{10,i\} = L\{1,i\}\{3,1\}(201:600,1);
    1\{11,i\} = L\{1,i\}\{3,1\}(401:800,1);
    1\{12,i\} = L\{1,i\}\{3,1\}(601:1000,1);
    r\{1,i\} = R\{1,i\}\{1,1\}(1:400,1);
    r{2,i} = R{1,i}{1,1}(201:600,1);
    r{3,i} = R{1,i}{1,1}(401:800,1);
    r{4,i} = R{1,i}{1,1}(601:1000,1);
    r{5,i} = R{1,i}{2,1}(1:400,1);
    r\{6,i\} = R\{1,i\}\{2,1\}(201:600,1);
    r{7,i} = R{1,i}{2,1}(401:800,1);
    r\{8,i\} = R\{1,i\}\{2,1\}(601:1000,1);
    r{9,i} = R{1,i}{3,1}(1:400,1);
    r\{10,i\} = R\{1,i\}\{3,1\}(201:600,1);
    r\{11,i\} = R\{1,i\}\{3,1\}(401:800,1);
    r\{12,i\} = R\{1,i\}\{3,1\}(601:1000,1);
end
```

```
for i=1:4
n cat{i} = cat(2,n{:,i});
n_{mean}\{i\} = mean(n_{cat}\{i\}, 2);
    l_{cat}{i} = cat(2,1{:,i});
    l_mean{i} = mean(l_cat{i},2);
    r_{cat}\{i\} = cat(2,r\{:,i\});
    r_{mean}\{i\} = mean(r_{cat}\{i\}, 2);
end
figure(1);
    title('Focus Putih - R12');
hold on
plot(n_mean{1}, 'r');
plot(n_mean{2}, 'g');
plot(n_mean{3}, 'b');
plot(n_mean{4}, 'm');
hold off
    legend('CH1','CH2','CH3','CH4')
figure(2);
    title('Focus Merah - R12');
hold on
plot(l_mean{1}, 'r');
plot(1_mean{2}, 'g');
plot(1_mean{3}, 'b');
plot(l_mean{4},'m');
hold off
    legend('CH1','CH2','CH3','CH4')
figure(3);
    title('Focus Biru - R12');
hold on
plot(r_mean{1}, 'r');
plot(r_mean{2}, 'g');
plot(r_mean{3}, 'b');
plot(r_mean{4}, 'm');
hold off
    legend('CH1','CH2','CH3','CH4')
plot(r_mean{1},'r');
```

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