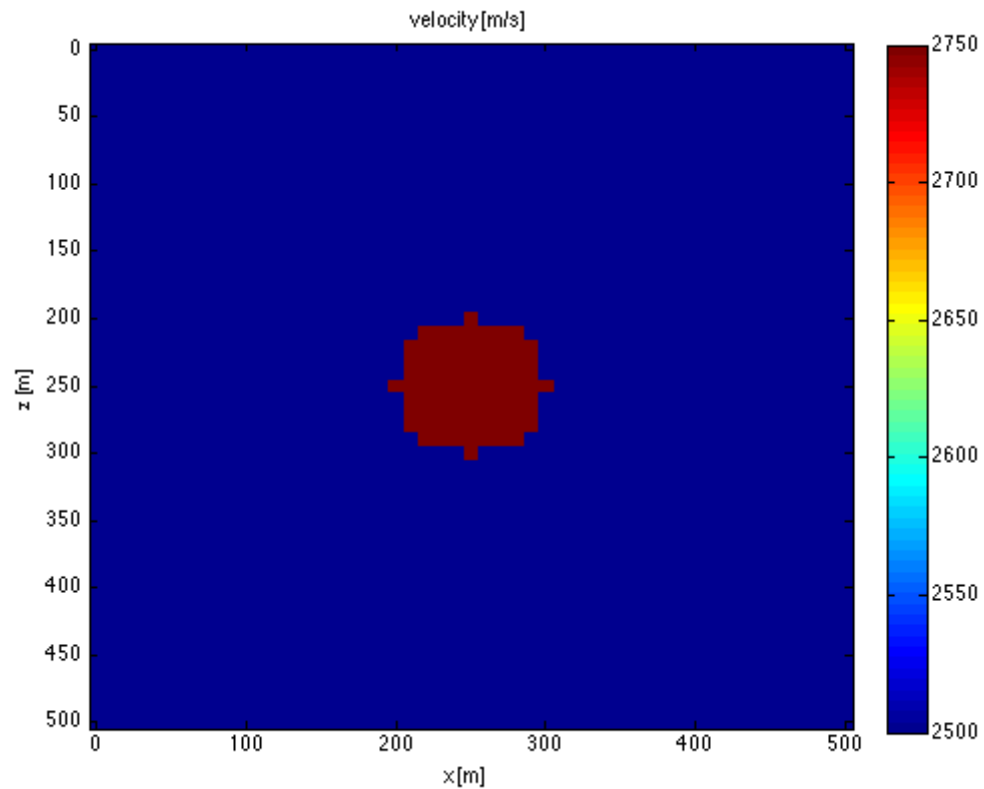

```
addpath(genpath('.../...'))
MGNFWI_camenbert
```



inversion

```
clear
load camenbert
opts.iterations = 20;
[results_1] = MGNFWI(reshape(m0,n),Dobs,wavelet,model,opts,1);
save results_1 results_1
clear
load camenbert
opts.iterations = 10;
[results_2] = MGNFWI(reshape(m0,n),Dobs,wavelet,model,opts,2);
save results_2 results_2

=== Now processing frequency band 1===

---calculating GN update 1 for frequency band 1---

two-norm wavefield difference of current frequency band is: 33.7278

=====
SPGL1_SLIM v. 46 (Tue, 14 Jun 2011) based on v.1017
=====
```

No. rows	:	1530	No. columns	:	2601
Initial tau	:	0.00e+00	Two-norm of b	:	3.37e+01
Optimality tol	:	1.00e-03	Target objective	:	0.00e+00
Basis pursuit tol	:	1.00e-03	Maximum iterations	:	20

Iter	Objective	Relative Gap	Rel Error	gNorm	stepG	nnzX
0	3.3727763e+01	0.0000000e+00	1.00e+00	5.415e+02	0.0	0
5	1.9100829e+01	1.4153684e+00	1.00e+00	1.324e+02	0.0	20
9	1.2324370e+01	1.3817932e+00	1.00e+00	2.962e+01	0.0	73
13	9.0073800e+00	4.0600332e+00	1.00e+00	1.875e+01	0.0	162
17	7.4498652e+00	4.7798128e+00	1.00e+00	1.061e+01	0.0	331
20	7.4428216e+00	9.2149661e+01	1.00e+00	1.247e+02	0.0	557

ERROR EXIT -- Too many iterations

Products with A	:	24	Total time (secs)	:	166.6
Products with A'	:	22	Project time (secs)	:	0.0
Newton iterations	:	6	Mat-vec time (secs)	:	162.1
Line search its	:	4	Subspace iterations	:	0

=== Now processing frequency band 1===

---calculating GN update 1 for frequency band 1---

two-norm wavefield difference of current frequency band is: 31.4296

=====

PQNL1_SLIM v. 46 (Tue, 14 Jun 2011) based on v.1017

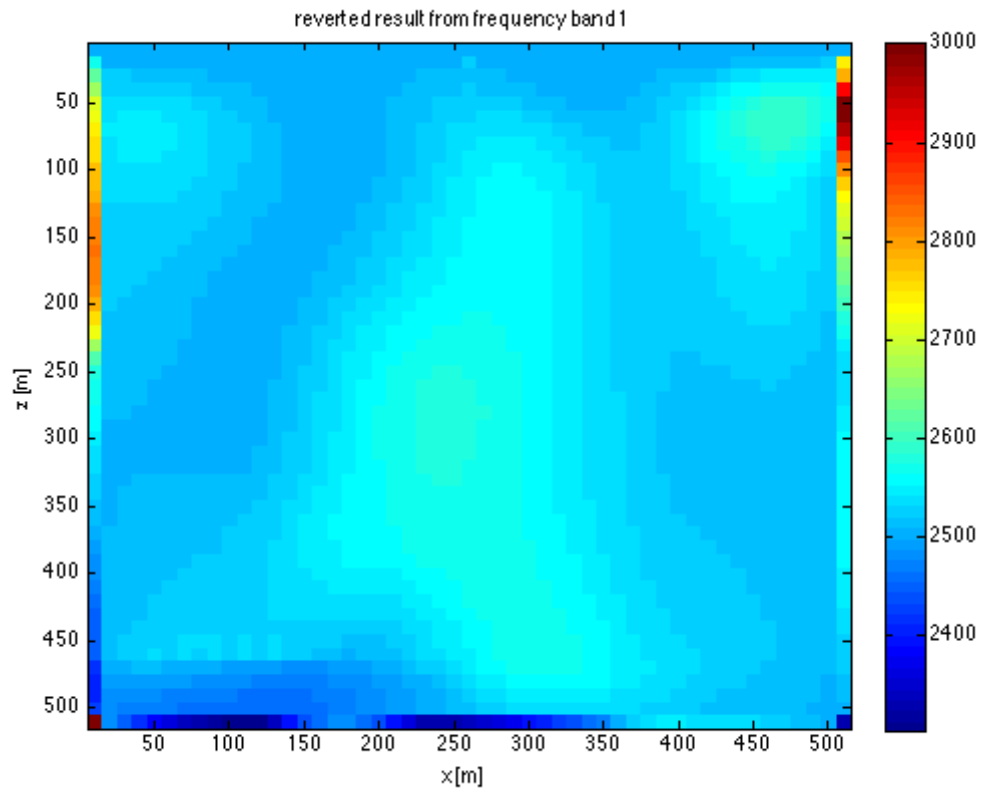
=====

No. rows	:	1530	No. columns	:	2601
Initial tau	:	0.00e+00	Two-norm of b	:	3.14e+01
Optimality tol	:	1.00e-03	Target objective	:	0.00e+00
Basis pursuit tol	:	1.00e-03	Maximum iterations	:	10

0	3.1429642e+01	0.0000000e+00	1.00e+00	6.111e+02	0.0	0
1	2.2553960e+01	8.3370769e-01	1.00e+00	1.836e+02	0.0	56
2	1.2218499e+01	1.0305070e+01	1.00e+00	1.715e+02	0.0	76
3	1.0356273e+01	2.8962536e+00	1.00e+00	4.019e+01	0.0	81
4	8.8424890e+00	1.2069866e+01	1.00e+00	5.681e+01	0.0	100
5	8.3676369e+00	3.7722400e+00	1.00e+00	1.417e+01	0.0	105
6	7.7278668e+00	2.1956659e+01	1.00e+00	4.501e+01	0.0	119
7	7.4343646e+00	3.7792844e+00	1.00e+00	7.075e+00	0.0	127
8	7.0307787e+00	1.4875276e+01	1.00e+00	1.634e+01	0.0	141
9	6.8200142e+00	7.2468437e+00	1.00e+00	6.801e+00	0.0	144

ERROR EXIT -- Too many iterations

Products with A	:	31	Total time (secs)	:	221.6
Products with A'	:	32	Project time (secs)	:	1.0
Newton iterations	:	10	Mat-vec time (secs)	:	215.4



```
open MGNFWI_camenbert
open GN_up
open pqnl1_2
open minconf_pqn_2
open lbfgsupdate
```

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