

# 2016-09-23-102452-issue238

William A. Stein

9/23/2016

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octave2 = jupyter('octave')
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color: #AAAAAA; .body_background background-color: #000000; .body_foreground >  
.bold,.bold > .body_foreground, body.body_foreground > pre > .bold color: #FFFFFF; font-weight:  
normal; .inv_foreground color: #000000; .inv_background background-color: #AAAAAA;  
.ansi1 font-weight: bold; .ansi2 font-weight: lighter; .ansi3 font-style: italic; .ansi4 text-  
decoration: underline; .ansi5 text-decoration: blink; .ansi6 text-decoration: blink; .ansi8 visibility:  
hidden; .ansi9 text-decoration: line-through; .ansi30 color: #000316; .inv30 background-  
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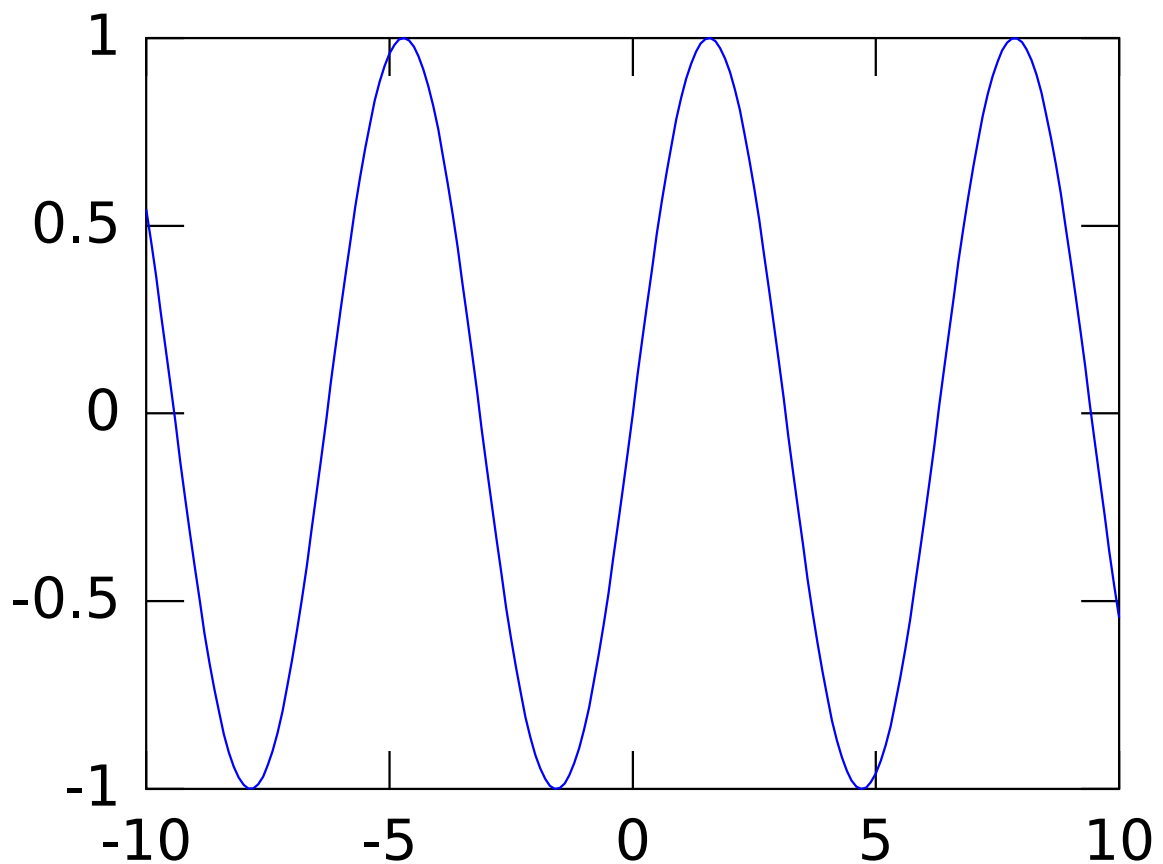
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157 background: #7ed27e; .ansi48-157 background: #7ed27e; .inv48-157 color: #7ed27e; .ansi38-158 color: #7ed2a8; .inv38-158 background: #7ed2a8; .ansi48-158 background: #7ed2a8; .inv48-158 color: #7ed2a8; .ansi38-159 color: #7ed2d2; .inv38-159 background: #7ed2d2; .ansi48-159 background: #7ed2d2; .inv48-159 color: #7ed2d2; .ansi38-190 color: #a8d200; .inv38-190 background: #a8d200; .ansi48-190 background: #a8d200; .inv48-190 color: #a8d200; .ansi38-191 color: #a8d22a; .inv38-191 background: #a8d22a; .ansi48-191 background: #a8d22a; .inv48-191 color: #a8d22a; .ansi38-192 color: #a8d254; .inv38-192 background: #a8d254; .ansi48-192 background: #a8d254; .inv48-192 color: #a8d254; .ansi38-193 color: #a8d27e; .inv38-193 background: #a8d27e; .ansi48-193 background: #a8d27e; .inv48-193 color: #a8d27e; .ansi38-194 color: #a8d2a8; .inv38-194 background: #a8d2a8; .ansi48-194 background: #a8d2a8; .inv48-194 color: #a8d2a8; .ansi38-195 color: #a8d2d2; .inv38-195 background: #a8d2d2; .ansi48-195 background: #a8d2d2; .inv48-195 color: #a8d2d2; .ansi38-226 color: #d2d200; .inv38-226 background: #d2d200; .ansi48-226 background: #d2d200; .inv48-226 color: #d2d200; .ansi38-227 color: #d2d22a; .inv38-227 background: #d2d22a; .ansi48-227 background: #d2d22a; .inv48-227 color: #d2d22a; .ansi38-228 color: #d2d254; .inv38-228 background: #d2d254; .ansi48-228 background: #d2d254; .inv48-228 color: #d2d254; .ansi38-229 color: #d2d27e; .inv38-229 background: #d2d27e; .ansi48-229 background: #d2d27e; .inv48-229 color: #d2d27e; .ansi38-230 color: #d2d2a8; .inv38-230 background: #d2d2a8; .ansi48-230 background: #d2d2a8; .inv48-230 color: #d2d2a8; .ansi38-231 color: #d2d2d2; .inv38-231 background: #d2d2d2; .ansi48-231 background: #d2d2d2; .inv48-231 color: #d2d2d2; .ansi38-232 color: #080808; .inv38-232 background: #080808; .ansi48-232 background: #080808; .inv48-232 color: #080808; .ansi38-233 color: #121212; .inv38-233 background: #121212; .ansi48-233 background: #121212; .inv48-233 color: #121212; .ansi38-234 color: #1c1c1c; .inv38-234 background: #1c1c1c; .ansi48-234 background: #1c1c1c; .inv48-234 color: #1c1c1c; .ansi38-235 color: #262626; .inv38-235 background: #262626; .ansi48-235 background: #262626; .inv48-235 color: #262626; .ansi38-236 color: #303030; .inv38-236 background: #303030; .ansi48-236 background: #303030; .inv48-236 color: #303030; .ansi38-237 color: #3a3a3a; .inv38-237 background: #3a3a3a; .ansi48-237 background: #3a3a3a; .inv48-237 color: #3a3a3a; .ansi38-238 color: #444444; .inv38-238 background: #444444; .ansi48-238 background: #444444; .inv48-238 color: #444444; .ansi38-239 color: #4e4e4e; .inv38-239 background: #4e4e4e; .ansi48-239 background: #4e4e4e; .inv48-239 color: #4e4e4e; .ansi38-240 color: #585858; .inv38-240 background: #585858; .ansi48-240 background: #585858; .inv48-240 color: #585858; .ansi38-241 color: #626262; .inv38-241 background: #626262; .ansi48-241 background: #626262; .inv48-241 color: #626262; .ansi38-242 color: #6c6c6c; .inv38-242 background: #6c6c6c; .ansi48-242 background: #6c6c6c; .inv48-242 color: #6c6c6c; .ansi38-243 color: #767676; .inv38-243 background: #767676; .ansi48-243 background: #767676; .inv48-243 color: #767676; .ansi38-244 color: #808080; .inv38-244 background: #808080; .ansi48-244 background: #808080; .inv48-244 color: #808080; .ansi38-245 color: #8a8a8a; .inv38-245 background: #8a8a8a; .ansi48-245 background: #8a8a8a; .inv48-245 color: #8a8a8a; .ansi38-246 color: #949494; .inv38-246 background: #949494; .ansi48-246 background: #949494; .inv48-246 color: #949494; .ansi38-247 color: #9e9e9e; .inv38-247 background: #9e9e9e; .ansi48-247 background: #9e9e9e; .inv48-247 color: #9e9e9e; .ansi38-248 color: #a8a8a8; .inv38-248 background: #a8a8a8; .ansi48-248 background: #a8a8a8; .inv48-248 color: #a8a8a8; .ansi38-249 color: #b2b2b2; .inv38-249 background: #b2b2b2; .ansi48-249 background: #b2b2b2; .inv48-249 color: #b2b2b2; .ansi38-250 color: #bcbcbc; .inv38-250 background: #bcbcbc; .ansi48-250 background: #bcbcbc; .inv48-250



```
color: #bcbbc; .ansi38-251 color: #c6c6c6; .inv38-251 background: #c6c6c6; .ansi48-251
background: #c6c6c6; .inv48-251 color: #c6c6c6; .ansi38-252 color: #d0d0d0; .inv38-252
background: #d0d0d0; .ansi48-252 background: #d0d0d0; .inv48-252 color: #d0d0d0;
.ansi38-253 color: #dadada; .inv38-253 background: #dadada; .ansi48-253 background:
#dadada; .inv48-253 color: #dadada; .ansi38-254 color: #e4e4e4; .inv38-254 background:
#e4e4e4; .ansi48-254 background: #e4e4e4; .inv48-254 color: #e4e4e4; .ansi38-255 color:
#eeeeee; .inv38-255 background: #eeeeee; .ansi48-255 background: #eeeeee; .inv48-255
color: #eeeeee;
```

```
%octave2
x = -10:0.1:10;
plot (x, sin (x));
```



Out [1]:

```
%octave2
randn(10)
```

Out [2]:

ans =

Columns 1 through 6:

```
-1.6270816    0.8259583    1.8008659    0.2175127   -0.6855264    0.5452617
```

---

-0.0128418	0.1658316	-0.1916049	-0.5868565	0.9204796	-1.6766612
-0.5646155	-0.6174214	-1.2329483	1.1376594	0.3094357	-0.3738541
1.4035095	-0.8398618	-0.7407666	0.7803287	0.8284594	1.0646726
0.6567299	0.5160150	-0.4954299	-1.9569229	-0.3480933	-0.4925898
0.7667384	-1.6338943	0.1155558	-0.5650950	-0.3779098	-1.1333274
2.1116624	1.1857309	-0.2760580	0.8382920	0.3388891	-1.9817358
-1.3074312	-1.2619905	2.1415435	-2.0890218	-0.7937043	1.1060839
-0.0093194	1.2282934	0.0411713	0.5262287	-2.3787770	-1.5828321
-0.6631873	1.0104010	-1.0063112	0.1326764	-1.0765801	0.6570681

Columns 7 through 10:

-0.4029159	-0.8938611	-1.0211416	1.6261932
0.7310209	0.5565887	-1.1308057	2.3762608
0.0200491	-0.1433714	-1.2890391	-0.3718171
0.7386599	0.9444830	-0.8961580	0.5846748
0.0041019	-0.2349750	0.9376345	1.7115472
-1.0201655	-0.5343038	0.4252434	0.2526837
-1.4763516	1.5924133	0.7227943	-0.8065313
-3.1126414	-0.0506866	-0.2748946	0.6178795
-0.4487148	0.0462266	-0.3083281	0.0026717
1.9203808	0.2859314	-0.3387952	0.3803933