模块列表 (/sources/py/all) / 函数列表 (/sources/py/numpy.html) / numpy.sqrt()

Python numpy 模块, sqrt() 实例源码

我们从Python开源项目中,提取了以下50个代码示例,用于说明如何使用numpy.sqrt()。

作者: hendrycks 项目: GELUs | 项目源码 (https://github.com/hendrycks/GELUs) | 文件源码 (https://github.com/hendrycks/GELUs/tree/master/nn.py) def gelu(x): return 0.5 * x * (1 + T.tanh(T.sqrt(2 / np.pi) * (x + 0.044715 * T.pow(x, 3))))Ads by Google Send feedback Why this ad? ①

项目: qqmbr 作者: ischurov | 项目源码

(https://github.com/ischurov/qqmbr) | 文件源码 (https://github.com/ischurov/qqmbr/tree/master/qqmbr/odebook.py)

```
def normvectorfield(xs,ys,fs,**kw):
    """
    plot normalized vector field

    kwargs
    ======

        - length is a desired length of the lines (default: 1)
        - the rest of kwards are passed to plot
    """
    length = kw.pop('length') if 'length' in kw else 1
        x, y = np.meshgrid(xs, ys)
        # calculate vector field
        vx,vy = fs(x,y)
        # plot vecor field
        norm = length /np.sqrt(vx**2+vy**2)
        plt.quiver(x, y, vx * norm, vy * norm, angles='xy',**kw)
```

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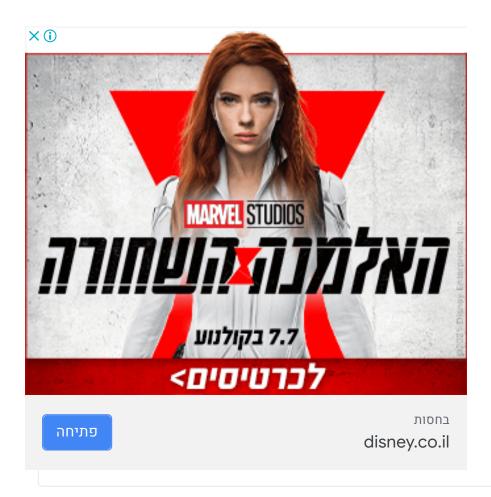
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项目: GELUs 作者: hendrycks | 项目源码

(https://github.com/hendrycks/GELUs) | 文件源码

(https://github.com/hendrycks/GELUs/tree/master/nn.py)

```
def adam_updates(params, cost, lr=0.001, mom1=0.9, mom2=0.999):
   updates = []
    grads = T.grad(cost, params)
    t = th.shared(np.cast[th.config.floatX](1.))
    for p, g in zip(params, grads):
        v = th.shared(np.cast[th.config.floatX](p.get_value() * 0.))
        mg = th.shared(np.cast[th.config.floatX](p.get_value() * 0.))
        v t = mom1*v + (1. - mom1)*g
        mg_t = mom2*mg + (1. - mom2)*T.square(g)
        v_{hat} = v_{t} / (1. - mom1 ** t)
        mg hat = mg t / (1. - mom2 ** t)
        g_t = v_hat / T.sqrt(mg_hat + 1e-8)
        p_t = p - lr * g_t
        updates.append((v, v t))
        updates.append((mg, mg_t))
        updates.append((p, p_t))
    updates.append((t, t+1))
    return updates
```



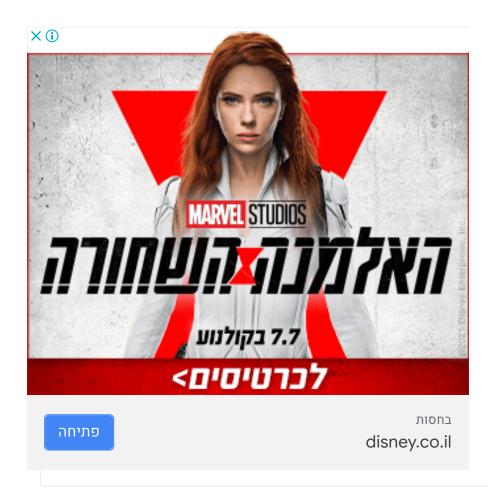
项目: cnn-graph-classification 作者: giannisnik | 项目源码

(https://github.com/giannisnik/cnn-graph-classification) | 文件源码

(https://github.com/giannisnik/cnn-graph-

classification/tree/master/kcnn/nystrom.py)

```
def fit(self, graphs, y=None):
            rnd = check_random_state(self.random_state)
            n_samples = len(graphs)
            # get basis vectors
            if self.n components > n samples:
                n components = n samples
            else:
                n_components = self.n_components
            n components = min(n samples, n components)
            inds = rnd.permutation(n_samples)
            basis inds = inds[:n components]
            basis = []
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                                                       **self._get_kernel_params(
            # sqrt of kernel matrix on basis vectors
            U, S, V = svd(basis_kernel)
            S = np.maximum(S, 1e-12)
            self.normalization_ = np.dot(U * 1. / np.sqrt(S), V)
            self.components_ = basis
            self.component indices = inds
            return self
```



项目: pylspm **作者:** lseman | 项目源码

(https://github.com/lseman/pylspm) | 文件源码

(https://github.com/lseman/pylspm/tree/master/pylspm/pylspm.py)

```
def alpha(self):
        # Cronbach Alpha
        alpha = pd.DataFrame(0, index=np.arange(1), columns=self.latent)
        for i in range(self.lenlatent):
            block = self.data [self.Variables['measurement']
                               [self.Variables['latent'] == self.latent[i]]
]
            p = len(block.columns)
            if(p != 1):
               p_{-} = len(block)
                correction = np.sqrt((p_ - 1) / p_)
                soma = np.var(np.sum(block, axis=1))
                cor = pd.DataFrame.corr(block)
                denominador = soma * correction**2
                numerador = 2 * np.sum(np.tril(cor_) - np.diag(np.diag(cor_
)))
                alpha_ = (numerador / denominador) * (p / (p - 1))
                alpha[self.latent[i]] = alpha_
            else:
                alpha[self.latent[i]] = 1
        return alpha.T
```



项目: GYM_DRL 作者: Kyushik | 项目源码

(https://github.com/Kyushik/GYM_DRL) | 文件源码

(https://github.com/Kyushik/GYM_DRL/tree/master/CartPole_DRQN.py)

```
def xavier_initializer(shape):
    dim_sum = np.sum(shape)
    if len(shape) == 1:
        dim_sum += 1
    bound = np.sqrt(2.0 / dim_sum)
    return tf.random_uniform(shape, minval=-bound, maxval=bound)

# Assigning network variables to target network variables
# def assign_network_to_target():
# update_wfc = tf.assign(w_fc_target, w_fc)
# update_bfc = tf.assign(b_fc_target, b_fc)

# sess.run(update_wfc)
# sess.run(update_bfc)

# cell_target = cell
# Input
```



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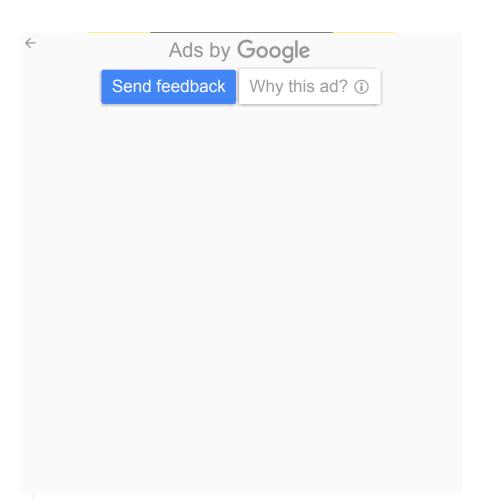
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```
项目: uwb_tracker_ros 作者: eth-ait | 项目源码 (https://github.com/eth-ait/uwb_tracker_ros) | 文件源码 (https://github.com/eth-ait/uwb_tracker_ros/tree/master/src/uwb_tracker_node.py)
```

```
def _ikf_iteration(self, x, n, ranges, h, H, z, estimate, R):
                          """Update tracker based on a multi-range message.
                         Args:
                                         multi_range_msg (uwb.msg.UWBMultiRangeWithOffsets): ROS multi-range_msg (uwb.msg.UWBMulti-range_msg (uwb.msg.UWBMulti-range_msg (uwb.msg.UWBMulti-range_msg (uwb.msg.UWBMulti-range_msg (uwb.msg.UWBMulti-range_msg (uwb.msg.UWBMulti-range_msg (uwb.msg (uwb.msg
                         Returns:
                                      new estimate (StateEstimate): Updated position estimate.
                         new position = n[0:3]
                         self._compute_measurements_and_jacobians(ranges, new_position, h, H
, z)
                         res = z - h
                         S = np.dot(np.dot(H, estimate.covariance), H.T) + R
                         K = np.dot(estimate.covariance, self. solve equation least squares(
S.T, H).T)
                         mahalanobis = np.sqrt(np.dot(self._solve_equation_least_squares(S.T
, res).T, res))
                         if res.size not in self.outlier thresholds:
                                      self.outlier_thresholds[res.size] = scipy.stats.chi2.isf(self.o
utlier threshold quantile, res.size)
                         outlier threshold = self.outlier thresholds[res.size]
                          if mahalanobis < outlier_threshold:</pre>
                                      n = x + np.dot(K, (res - np.dot(H, x - n)))
                                      outlier flag = False
                         else:
                                      outlier flag = True
                         return n, K, outlier flag
```



项目: YellowFin_Pytorch 作者: JianGoForIt | 项目源码 (https://github.com/JianGoForIt/YellowFin_Pytorch) | 文件源码 (https://github.com/JianGoForIt/YellowFin_Pytorch/tree/master/tuner_utils /yellowfin.py)

```
def dist to opt(self):
    global state = self. global state
    beta = self. beta
    if self. iter == 0:
      global_state["grad_norm_avg"] = 0.0
      global state["dist to opt avg"] = 0.0
    global state["grad norm avg"] = \
      global_state["grad_norm_avg"] * beta + (1 - beta) * math.sqrt(global_
state["grad norm squared"] )
    global_state["dist_to_opt_avg"] = \
      global_state["dist_to_opt_avg"] * beta \
      + (1 - beta) * global state["grad norm avg"] / (global state['grad no
rm_squared_avg'] + eps)
    if self._zero_debias:
      debias factor = self.zero debias factor()
      self. dist to opt = global state["dist to opt avg"] / debias factor
    else:
      self._dist_to_opt = global_state["dist_to_opt_avg"]
    if self. sparsity debias:
      self._dist_to_opt /= (np.sqrt(self._sparsity_avg) + eps)
    return
```

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פתיחה

מסות:

kennedy-lp-142.ln.fixdigital.co.il

项目: YellowFin_Pytorch 作者: JianGoForIt | 项目源码

(https://github.com/JianGoForIt/YellowFin_Pytorch) | 文件源码 (https://github.com/JianGoForIt/YellowFin_Pytorch/tree/master/tuner_utils /yellowfin.py)

```
def lr grad norm avg(self):
    # this is for enforcing lr * grad norm not
    # increasing dramatically in case of instability.
    # Not necessary for basic use.
    global state = self. global state
    beta = self. beta
    if "lr grad norm avg" not in global state:
      global state['grad norm squared avg log'] = 0.0
    global_state['grad_norm_squared_avg_log'] = \
      global state['grad norm squared avg log'] * beta \
      + (1 - beta) * np.log(global state['grad norm squared'] + eps)
    if "lr grad norm avg" not in global state:
      global state["lr grad norm avg"] = \
        0.0 * beta + (1 - beta) * np.log(self._lr * np.sqrt(global_state['g
rad_norm_squared'] ) + eps)
      # we monitor the minimal smoothed ||lr * grad||
      global state["lr grad norm avg min"] = \
        np.exp(global_state["lr_grad_norm_avg"] / self.zero_debias_factor()
    else:
      global_state["lr_grad_norm_avg"] = global_state["lr_grad_norm_avg"] *
        + (1 - beta) * np.log(self. lr * np.sqrt(global state['grad norm sq
uared'] ) + eps)
      global_state["lr_grad_norm_avg_min"] = \
        min(global state["lr grad norm avg min"],
            np.exp(global state["lr grad norm avg"] / self.zero debias fact
or() ) )
```



项目: YellowFin_Pytorch 作者: JianGoForIt | 项目源码

(https://github.com/JianGoForIt/YellowFin_Pytorch) | 文件源码

(https://github.com/JianGoForIt/YellowFin_Pytorch/tree/master/numerical

_test/YFDebug/yellowfin_backup.py)

```
def dist_to_opt(self):
    global_state = self._global_state
    beta = self. beta
    if self._iter == 0:
      global_state["grad_norm_avg"] = 0.0
      global state["dist to opt avg"] = 0.0
    global state["grad norm avg"] = \
      global_state["grad_norm_avg"] * beta + (1 - beta) * math.sqrt(global_
state["grad_norm_squared"] )
    global_state["dist_to_opt_avg"] = \
      global_state["dist_to_opt_avg"] * beta \
      + (1 - beta) * global_state["grad_norm_avg"] / (global_state['grad_no
rm_squared_avg'] + eps)
    if self._zero_debias:
      debias factor = self.zero debias factor()
      self. dist to opt = global state["dist to opt avg"] / debias factor
    else:
      self._dist_to_opt = global_state["dist_to_opt_avg"]
    if self._sparsity_debias:
      self._dist_to_opt /= (np.sqrt(self._sparsity_avg) + eps)
    return
```



项目: YellowFin_Pytorch 作者: JianGoForIt | 项目源码 (https://github.com/JianGoForIt/YellowFin_Pytorch) | 文件源码 (https://github.com/JianGoForIt/YellowFin_Pytorch/tree/master/numerical _test/YFDebug/yellowfin_backup.py)

```
def lr_grad norm avg(self):
    # this is for enforcing lr * grad norm not
    # increasing dramatically in case of instability.
    # Not necessary for basic use.
    global state = self. global state
    beta = self. beta
    if "lr grad norm avg" not in global state:
      global state['grad norm squared avg log'] = 0.0
    global state['grad norm squared avg log'] = \
      global state['grad norm squared avg log'] * beta \
      + (1 - beta) * np.log(global_state['grad_norm_squared'] + eps)
    if "lr_grad_norm_avg" not in global_state:
      global state["lr grad norm avg"] = \
        0.0 * beta + (1 - beta) * np.log(self. lr * np.sqrt(global_state['g
rad norm squared'] ) + eps)
      # we monitor the minimal smoothed || | | r * grad | |
      global state["lr grad norm avg min"] = \
        np.exp(global_state["lr_grad_norm_avg"] / self.zero_debias_factor()
 )
    else:
      global_state["lr_grad_norm_avg"] = global_state["lr_grad_norm_avg"] *
beta \
        + (1 - beta) * np.log(self. lr * np.sqrt(global state['grad norm sq
uared'] ) + eps)
      global_state["lr_grad_norm_avg_min"] = \
        min(global state["lr grad norm avg min"],
            np.exp(global state["lr grad norm avg"] / self.zero debias fact
or() ) )
```



项目: YellowFin_Pytorch 作者: JianGoForIt | 项目源码 (https://github.com/JianGoForIt/YellowFin_Pytorch) | 文件源码 (https://github.com/JianGoForIt/YellowFin_Pytorch/tree/master/numerical _test/YFDebug/yellowfin_backup.py)

```
def get_cubic_root(self):
    # We have the equation x^2 D^2 + (1-x)^4 * C / h min^2
    # where x = sqrt(mu).
   # We substitute x, which is sqrt(mu), with x = y + 1.
    # It gives y^3 + py = q
    # where p = (D^2 h min^2)/(2*C) and q = -p.
    # We use the Vieta's substution to compute the root.
    # There is only one real solution y (which is in [0, 1] ).
    # http://mathworld.wolfram.com/VietasSubstitution.html
    # eps in the numerator is to prevent momentum = 1 in case of zero gradi
ent
    p = (self. dist to opt + eps)**2 * (self. h min + eps)**2 / 2 / (self.)
grad_var + eps)
   w3 = (-math.sqrt(p**2 + 4.0 / 27.0 * p**3) - p) / 2.0
    w = math.copysign(1.0, w3) * math.pow(math.fabs(w3), 1.0/3.0)
    y = w - p / 3.0 / (w + eps)
    x = y + 1
    if DEBUG:
      logging.debug("p %f, den %f", p, self._grad_var + eps)
      logging.debug("w3 %f ", w3)
      logging.debug("y %f, den %f", y, w + eps)
    return x
```



פתיחה

בחסות

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项目: YellowFin_Pytorch 作者: JianGoForIt | 项目源码 (https://github.com/JianGoForIt/YellowFin_Pytorch) | 文件源码 (https://github.com/JianGoForIt/YellowFin_Pytorch/tree/master/numerical _test/YFDebug/yellowfin_backup.py)

```
def update hyper param(self):
    for group in self._optimizer.param_groups:
      group['momentum'] = self. mu
      if self. force non inc step == False:
        group['lr'] = min(self. lr * self. lr factor,
          self._lr_grad_norm_thresh / (math.sqrt(self._global_state["grad_n
orm squared"] ) + eps) )
      elif self. iter > self. curv win width:
        # force to guarantee lr * grad norm not increasing dramatically.
        # Not necessary for basic use. Please refer to the comments
        # in YFOptimizer.__init__ for more details
        self.lr_grad_norm_avg()
        debias factor = self.zero debias factor()
        group['lr'] = min(self. lr * self. lr factor,
          2.0 * self. global state["lr grad norm avg min"] \
          / (np.sqrt(np.exp(self._global_state['grad_norm_squared_avg_log']
 / debias factor) ) + eps) )
    return
```



项目: treecat **作者:** posterior | 项目源码

(https://github.com/posterior/treecat) | 文件源码

(https://github.com/posterior/treecat/tree/master/treecat/serving.py)

```
def latent_correlation(self):
    """Compute correlation matrix among latent features.

This computes the generalization of Pearson's correlation to discrete

data. Let I(X;Y) be the mutual information. Then define correlation of

rho(X,Y) = sqrt(1 - exp(-2 I(X;Y)))

Returns:
    A [V, V]-shaped numpy array of feature-feature correlations.

"""

result = self._ensemble[0].latent_correlation()
for server in self._ensemble[1:]:
    result += server.latent_correlation()
result /= len(self._ensemble)
return result
```



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项目: spyking-circus 作者: spyking-circus | 项目源码

(https://github.com/spyking-circus/spyking-circus) | 文件源码

(https://github.com/spyking-circus/spyking-

```
def fit_transform(self, X, y=None):
        """Fit the model with {\tt X} and apply the dimensionality reduction on {\tt X}
        Parameters
        -----
        X : array-like, shape (n_samples, n_features)
            Training data, where n_samples is the number of samples
            and n features is the number of features.
        Returns
        X_new : array-like, shape (n_samples, n_components)
        U, S, V = self._fit(X)
        U = U[:, :int(self.n_components_)]
        if self.whiten:
            # X_new = X * V / S * sqrt(n_samples) = U * sqrt(n_samples)
            U *= sqrt(X.shape[0])
        else:
            \# X_{new} = X * V = U * S * V^T * V = U * S
            U *= S[:int(self.n_components_)]
        return U
```

项目: spyking-circus 作者: spyking-circus | 项目源码 (https://github.com/spyking-circus/spyking-circus) | 文件源码 (https://github.com/spyking-circus/spyking-circus/tree/master/circus/shared/utils.py)

```
def get_covariance(self):
        """Compute data covariance with the generative model.
        ``cov = components .T * S**2 * components + sigma2 * eye(n features
        where S**2 contains the explained variances.
        Returns
        _____
        cov : array, shape=(n_features, n_features)
            Estimated covariance of data.
        components_ = self.components_
        exp_var = self.explained_variance_
        if self.whiten:
            components_ = components_ * np.sqrt(exp_var[:, np.newaxis])
        exp_var_diff = np.maximum(exp_var - self.noise_variance_, 0.)
        cov = np.dot(components .T * exp var diff, components )
        cov.flat[::len(cov) + 1] += self.noise_variance_ # modify diag inp
lace
        return cov
```

项目: spyking-circus 作者: spyking-circus | 项目源码 (https://github.com/spyking-circus/spyking-circus) | 文件源码 (https://github.com/spyking-circus/spyking-circus/tree/master/circus/shared/utils.py)

```
def inverse transform(self, X):
        """Transform data back to its original space, i.e.,
        return an input X original whose transform would be X
        Parameters
        -----
        X : array-like, shape (n_samples, n_components)
            New data, where n samples is the number of samples
            and n components is the number of components.
        Returns
        X_original array-like, shape (n_samples, n_features)
        check is fitted(self, 'mean ')
        if self.whiten:
            return fast dot(
                np.sqrt(self.explained_variance_[:, np.newaxis]) *
                self.components_) + self.mean_
        else:
            return fast dot(X, self.components ) + self.mean
```



```
def infExact scipy post(self, K, covars, y, sig2e, fixedEffects):
        n = y.shape[0]
       #mean vector
       m = covars.dot(fixedEffects)
        if (K.shape[1] < K.shape[0]): K true = K.dot(K.T)
       else: K_true = K
        if sig2e<1e-6:
           L = la.cholesky(K_true + sig2e*np.eye(n), overwrite_a=True, che
ck finite=False)
                    #Cholesky factor of covariance with noise
           sl = 1
           pL = -self.solveChol(L, np.eye(n))
                      \#L = -inv(K+inv(sW^2))
        else:
           L = la.cholesky(K_true/sig2e + np.eye(n), overwrite_a=True, che
ck_finite=False)
                    #Cholesky factor of B
           sl = sig2e
           pL = L
                      \#L = chol(eye(n)+sW*sW'.*K)
        alpha = self.solveChol(L, y-m, overwrite b=False) / sl
       post = dict([])
       post['alpha'] = alpha
                    #return the posterior parameters
       post['sW'] = np.ones(n) / np.sqrt(sig2e)
                     #sqrt of noise precision vector
       post['L'] = pL
       return post
```



```
def removeTopPCs(X, numRemovePCs):
    t0 = time.time()
    X_{mean} = X.mean(axis=0)
    X -= X_{mean}
    XXT = symmetrize(blas.dsyrk(1.0, X, lower=0))
    s,U = la.eigh(XXT)
    if (np.min(s) < -le-4): raise Exception('Negative eigenvalues found')</pre>
    s[s<0]=0
    ind = np.argsort(s)[::-1]
    U = U[:, ind]
    s = s[ind]
    s = np.sqrt(s)
    #remove null PCs
    ind = (s>1e-6)
    U = U[:, ind]
    s = s[ind]
    V = X.T.dot(U/s)
    #print 'max diff:', np.max(((U*s).dot(V.T) - X)**2)
    X = (U[:, numRemovePCs:]*s[numRemovePCs:]).dot((V.T)[numRemovePCs:, :])
    X += X_{mean}
    return X
```

(https://github.com/omerwe/MKLMM) | 文件源码 (https://github.com/omerwe/MKLMM/tree/master/gpUtils.py)

```
def normalizeSNPs(normMethod, X, y, prev=None, frqFile=None):
    if (normMethod == 'frq'):
        print 'flipping SNPs for standardization...'
        empMean = X.mean(axis=0) / 2.0
        X[:, empMean>0.5] = 2 - X[:, empMean>0.5]
        mafs = np.loadtxt(frqFile, usecols=[1,2]).mean(axis=1)
        snpsMean = 2*mafs
        snpsStd = np.sqrt(2*mafs*(1-mafs))
    elif (normMethod == 'controls'):
        controls = (y<y.mean())</pre>
        cases = ~controls
        snpsMeanControls, snpsStdControls = X[controls, :].mean(axis=0), X[
controls, :].std(axis=0)
        snpsMeanCases, snpsStdCases = X[cases, :].mean(axis=0), X[cases, :]
.std(axis=0)
        snpsMean = (1-prev)*snpsMeanControls + prev*snpsMeanCases
        snpsStd = (1-prev)*snpsStdControls + prev*snpsStdCases
    elif (normMethod is None): snpsMean, snpsStd = X.mean(axis=0), X.std(ax
is=0)
    else: raise Exception('Unrecognized normalization method: ' + normMetho
d)
    return snpsMean, snpsStd
```

项目: human-rl 作者: gsastry | 项目源码 (https://github.com/gsastry/human-rl) | 文件源码 (https://github.com/gsastry/humanrl/tree/master/scripts/universe_starter_agent/model.py)

```
def conv2d(x, num filters, name, filter size=(3, 3), stride=(1, 1), pad="SA
ME", dtype=tf.float32, collections=None):
   with tf.variable scope(name):
        stride_shape = [1, stride[0], stride[1], 1]
        filter_shape = [filter_size[0], filter_size[1], int(x.get_shape()[3
]), num_filters]
        # there are "num input feature maps * filter height * filter width"
        # inputs to each hidden unit
        fan in = np.prod(filter shape[:3])
        # each unit in the lower layer receives a gradient from:
        # "num output feature maps * filter height * filter width" /
            pooling size
        fan_out = np.prod(filter_shape[:2]) * num_filters
        # initialize weights with random weights
        w bound = np.sqrt(6. / (fan in + fan out))
        w = tf.get_variable("W", filter_shape, dtype, tf.random_uniform_ini
tializer(-w_bound, w_bound),
                            collections=collections)
        b = tf.get_variable("b", [1, 1, 1, num_filters], initializer=tf.con
stant initializer(0.0),
                            collections=collections)
        return tf.nn.conv2d(x, w, stride_shape, pad) + b
```

项目: human-rl 作者: gsastry | 项目源码

(https://github.com/gsastry/human-rl) | 文件源码

(https://github.com/gsastry/human-rl/tree/master/universe-starter-

agent/model.py)

```
def conv2d(x, num filters, name, filter size=(3, 3), stride=(1, 1), pad="SA
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stant initializer(0.0),
                            collections=collections)
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```

项目: distributional_perspective_on_RL **作者:** Kiwoo | 项目源码 (https://github.com/Kiwoo/distributional_perspective_on_RL) | 文件源码 (https://github.com/Kiwoo/distributional_perspective_on_RL/tree/master/t f_util.py)

```
def batchnorm(x, name, phase, updates, gamma=0.96):
   k = x.get shape()[1]
   runningmean = tf.get variable(name+"/mean", shape=[1, k], initializer=t
f.constant initializer(0.0), trainable=False)
   runningvar = tf.get_variable(name+"/var", shape=[1, k], initializer=tf.
constant initializer(1e-4), trainable=False)
   testy = (x - runningmean) / tf.sqrt(runningvar)
   mean_ = mean(x, axis=0, keepdims=True)
   var = mean(tf.square(x), axis=0, keepdims=True)
   std = tf.sqrt(var_)
   trainy = (x - mean) / std
   updates.extend([
       tf.assign(runningmean, runningmean * gamma + mean_ * (1 - gamma)),
       tf.assign(runningvar, runningvar * gamma + var * (1 - gamma))
   ])
   y = switch(phase, trainy, testy)
   out = y * tf.get variable(name+"/scaling", shape=[1, k], initializer=tf
.constant initializer(1.0), trainable=True)\
          + tf.get variable(name+"/translation", shape=[1,k], initializer
=tf.constant initializer(0.0), trainable=True)
   return out
# Mathematical utils
# -----
```

项目: cellranger 作者: 10XGenomics | 项目源码

(https://github.com/10XGenomics/cellranger) | 文件源码

(https://github.com/10XGenomics/cellranger/tree/master/lib/python/cellranger/analysis/pca.py)

```
def normalize_and_transpose(matrix):
    matrix.tocsc()

m = normalize_by_umi(matrix)

# Use log counts
m.data = np.log2(1 + m.data)

# Transpose
m = m.T

# compute centering (mean) and scaling (stdev)
(c,v) = summarize_columns(m)
s = np.sqrt(v)

return (m, c, s)
```

项目: cellranger 作者: 10XGenomics | 项目源码

(https://github.com/10XGenomics/cellranger) | 文件源码

(https://github.com/10XGenomics/cellranger/tree/master/lib/python/cellranger/stats.py)

```
def merge filtered metrics(filtered metrics):
    result = {
        'filtered bcs': 0,
        'filtered bcs lb': 0,
        'filtered_bcs_ub': 0,
        'max filtered bcs': 0,
        'filtered bcs var': 0,
        'filtered bcs cv': 0,
    for i, fm in enumerate(filtered metrics):
        # Add per-gem group metrics
        result.update({'gem group %d %s' % (i + 1, key): value for key, val
ue in fm.iteritems()})
        # Compute metrics over all gem groups
        result['filtered bcs'] += fm['filtered bcs']
        result['filtered bcs lb'] += fm['filtered bcs lb']
        result['filtered_bcs_ub'] += fm['filtered_bcs_ub']
        result['max_filtered_bcs'] += fm['max_filtered_bcs']
        result['filtered bcs var'] += fm['filtered bcs var']
    # Estimate CV based on sum of variances and means
    result['filtered bcs cv'] = tk stats.robust divide(
        np.sqrt(result['filtered_bcs_var']), fm['filtered_bcs'])
    return result
```

项目: rank-ordered-autoencoder 作者: paulbertens | 项目源码 (https://github.com/paulbertens/rank-ordered-autoencoder) | 文件源码 (https://github.com/paulbertens/rank-ordered-autoencoder/tree/master/Visualizer.py)

```
def reshapeWeights(self, weights, normalize=True, modifier=None):
        # reshape the weights matrix to a grid for visualization
        n rows = int(np.sqrt(weights.shape[1]))
        n_cols = int(np.sqrt(weights.shape[1]))
        kernel_size = int(np.sqrt(weights.shape[0]/3))
        weights grid = np.zeros((int((np.sqrt(weights.shape[0]/3)+1)*n rows
), int((np.sqrt(weights.shape[0]/3)+1)*n cols), 3), dtype=np.float32)
        for i in range(weights grid.shape[0]/(kernel size+1)):
            for j in range(weights grid.shape[1]/(kernel size+1)):
                index = i * (weights grid.shape[0]/(kernel size+1))+j
                if not np.isclose(np.sum(weights[:, index]), 0):
                    if normalize:
                        weights grid[i * (kernel size + 1):i * (kernel size
+ 1) + kernel_size, j * (kernel_size + 1):j * (kernel_size + 1) + kernel_s
ize]=\
                            (weights[:, index].reshape(kernel size, kernel
size, 3) - np.min(weights[:, index])) / ((np.max(weights[:, index]) - np.mi
n(weights[:, index])) + 1.e-6)
                    else:
                        weights_grid[i * (kernel_size + 1):i * (kernel_size
+ 1) + kernel_size, j * (kernel_size + 1):j * (kernel_size + 1) + kernel_s
ize] = \
                        (weights[:, index].reshape(kernel size, kernel size
, 3))
                    if modifier is not None:
                        weights grid[i * (kernel size + 1):i * (kernel size
+ 1) + kernel_size, j * (kernel_size + 1):j * (kernel_size + 1) + kernel_s
ize] *= modifier[index]
        return weights grid
```

项目: rank-ordered-autoencoder 作者: paulbertens | 项目源码 (https://github.com/paulbertens/rank-ordered-autoencoder) | 文件源码 (https://github.com/paulbertens/rank-ordered-autoencoder/tree/master/RankOrderedAutoencoder.py)

```
def init (self, input shape, output shape):
        self.input shape = input shape
        self.input = np.zeros((output shape[0], self.input shape[0] * self.
input_shape[1] *
                               self.input_shape[2]),dtype=np.float32)
        self.output = np.zeros(output shape, dtype=np.float32)
        self.output raw = np.zeros like(self.output)
        self.output error = np.zeros like(self.output)
        self.output average = np.zeros(self.output.shape[1], dtype=np.float
32)
        self.weights = np.random.normal(0, np.sqrt(2.0 / (self.output.shape
[1] + self.input.shape[1])),
                                        size=(self.input.shape[1], self.out
put.shape[1])).astype(np.float32)
        self.gradient = np.zeros like(self.weights)
        self.reconstruction = np.zeros like(self.weights)
        self.errors = np.zeros_like(self.weights)
        self.output_ranks = np.zeros(self.output.shape[1], dtype=np.int32)
        self.learning rate = 1
        self.norm limit = 0.1
```

项目: Lattice-Based-Signatures 作者: krishnacharya | 项目源码 (https://github.com/krishnacharya/Lattice-Based-Signatures) | 文件源码 (https://github.com/krishnacharya/Lattice-Based-Signatures/tree/master/Fiat-Shamir-based/lyu12vK.py)

```
def Verify(**kwargs):
        Verification for the signature
        i/p:
        msg: the string sent by the sender
        (z,c): vectors in Zq, the signature
        A : numpy array, Verification Key dimension nxm
        T: the matrix AS mod q ,it is used in the Verification of the signat
    1 1 1
    msg, z, c, A, T, sd, eta, m, k, q = kwargs['msg'], kwargs['z'], kwargs[
'c'], kwargs['A'], kwargs['T'], kwargs['sd'], kwargs['eta'], kwargs['m'], k
wargs['k'], kwargs['q']
    norm bound = eta * sd * np.sqrt(m)
    # checks for norm of z being small and that H(Az-Tc mod q,msg) hashes t
o c
    vec = util.vector_to_Zq(np.array(np.matmul(A,z) - np.matmul(T,c)), q)
    hashedList = util.hash_to_baseb(vec, msg, 3, k)
    print hashedList, c
    if np.sqrt(z.dot(z)) <= norm bound and np.array equal(c, hashedList):
        return True
    else:
        return False
```

项目: wmd-relax 作者: src-d | 项目源码 (https://github.com/src-d/wmd-relax) | 文件源码 (https://github.com/src-d/wmd-relax/tree/master/wmd/__init__.py)

```
def compute similarity(self, doc1, doc2):
            Calculates the similarity between two spaCy documents. Extracts
            nBOW from them and evaluates the WMD.
            :return: The calculated similarity.
            :rtype: float.
            .....
            doc1 = self. convert document(doc1)
            doc2 = self. convert document(doc2)
            vocabulary = {
                w: i for i, w in enumerate(sorted(set(doc1).union(doc2)))}
            w1 = self._generate_weights(doc1, vocabulary)
            w2 = self. generate weights(doc2, vocabulary)
            evec = numpy.zeros((len(vocabulary), self.nlp.vocab.vectors_len
gth),
                               dtype=numpy.float32)
            for w, i in vocabulary.items():
                evec[i] = self.nlp.vocab[w].vector
            evec sqr = (evec * evec).sum(axis=1)
            dists = evec_sqr - 2 * evec.dot(evec.T) + evec_sqr[:, numpy.new
axis]
            dists[dists < 0] = 0
            dists = numpy.sqrt(dists)
            return libwmdrelax.emd(w1, w2, dists)
```

项目: pybot 作者: spillai | 项目源码 (https://github.com/spillai/pybot) | 文件源码

(https://github.com/spillai/pybot/tree/master/pybot/geometry/transformations.py)

```
def quaternion matrix(quaternion):
    """Return homogeneous rotation matrix from quaternion.
   >>> R = quaternion_matrix([0.06146124, 0, 0, 0.99810947])
   >>> numpy.allclose(R, rotation_matrix(0.123, (1, 0, 0)))
   True
   .....
   q = numpy.array(quaternion[:4], dtype=numpy.float64, copy=True)
   nq = numpy.dot(q, q)
   if nq < _EPS:
       return numpy.identity(4)
   q *= math.sqrt(2.0 / nq)
   q = numpy.outer(q, q)
   return numpy.array((
       (1.0-q[1, 1]-q[2, 2], q[0, 1]-q[2, 3], q[0, 2]+q[1, 3], 0.0
),
           q[0, 1]+q[2, 3], 1.0-q[0, 0]-q[2, 2], q[1, 2]-q[0, 3], 0.0
),
       q[0, 2]-q[1, 3], q[1, 2]+q[0, 3], 1.0-q[0, 0]-q[1, 1], 0.0
),
                        0.0,
                                            0.0,
                                                                 0.0, 1.0
)
       ), dtype=numpy.float64)
```

项目: pybot 作者: spillai | 项目源码 (https://github.com/spillai/pybot) | 文件源码

(https://github.com/spillai/pybot/tree/master/pybot/vision/recognition_util s.py)

```
def im_detect_and_describe(img, mask=None, detector='dense', descriptor='SI
FT', colorspace='gray',
                           step=4, levels=7, scale=np.sqrt(2)):
    Describe image using dense sampling / specific detector-descriptor combine
    detector = get_detector(detector=detector, step=step, levels=levels, sc
    extractor = cv2.DescriptorExtractor create(descriptor)
    try:
        kpts = detector.detect(img, mask=mask)
        kpts, desc = extractor.compute(img, kpts)
        if descriptor == 'SIFT':
            kpts, desc = root sift(kpts, desc)
        pts = np.vstack([kp.pt for kp in kpts]).astype(np.int32)
        return pts, desc
    except Exception as e:
        print 'im_detect_and_describe', e
        return None, None
```

项目: sea-lion-counter 作者: rdinse | 项目源码

(https://github.com/rdinse/sea-lion-counter) | 文件源码

(https://github.com/rdinse/sea-lion-

counter/tree/master/data/data_preparation.py)

```
def compHistDistance(h1, h2):
  def normalize(h):
    if np.sum(h) == 0:
        return h
    else:
        return h / np.sum(h)
  def smoothstep(x, x_min=0., x_max=1., k=2.):
      m = 1. / (x max - x min)
      b = - m * x min
      x = m * x + b
      return betainc(k, k, np.clip(x, 0., 1.))
 def fn(X, Y, k):
    return 4. * (1. - smoothstep(Y, 0, (1 - Y) * X + Y + .1)) 
      * np.sqrt(2 * X) * smoothstep(X, 0., 1. / k, 2) \
             + 2. * smoothstep(Y, 0, (1 - Y) * X + Y + .1)
             * (1. - 2. * np.sqrt(2 * X) * smoothstep(X, 0., 1. / k, 2) - 0
.5)
 h1 = normalize(h1)
 h2 = normalize(h2)
  return max(0, np.sum(fn(h2, h1, len(h1))))
 # return np.sum(np.where(h2 != 0, h2 * np.log10(h2 / (h1 + 1e-10)), 0))
# KL divergence
```

项目: a-nice-mc **作者**: ermongroup | 项目源码 (https://github.com/ermongroup/a-nice-mc) | 文件源码 (https://github.com/ermongroup/a-nice-

mc/tree/master/a_nice_mc/objectives/expression/mog6.py)

```
def __call__(self, z):
        z1 = tf.reshape(tf.slice(z, [0, 0], [-1, 1]), [-1])
        z2 = tf.reshape(tf.slice(z, [0, 1], [-1, 1]), [-1])
        v1 = tf.sqrt((z1 - 5) * (z1 - 5) + z2 * z2) * 2
        v2 = tf.sqrt((z1 + 5) * (z1 + 5) + z2 * z2) * 2
        v3 = tf.sqrt((z1 - 2.5) * (z1 - 2.5) + (z2 - 2.5 * np.sqrt(3)) * (z
2 - 2.5 * np.sqrt(3))) * 2
        v4 = tf.sqrt((z1 + 2.5) * (z1 + 2.5) + (z2 + 2.5 * np.sqrt(3)) * (z
2 + 2.5 * np.sqrt(3))) * 2
        v5 = tf.sqrt((z1 - 2.5) * (z1 - 2.5) + (z2 + 2.5 * np.sqrt(3)) * (z
2 + 2.5 * np.sqrt(3))) * 2
        v6 = tf.sqrt((z1 + 2.5) * (z1 + 2.5) + (z2 - 2.5 * np.sqrt(3)) * (z
2 - 2.5 * np.sqrt(3))) * 2
        pdf1 = tf.exp(-0.5 * v1 * v1) / tf.sqrt(2 * np.pi * 0.25)
        pdf2 = tf.exp(-0.5 * v2 * v2) / tf.sqrt(2 * np.pi * 0.25)
        pdf3 = tf.exp(-0.5 * v3 * v3) / tf.sqrt(2 * np.pi * 0.25)
        pdf4 = tf.exp(-0.5 * v4 * v4) / tf.sqrt(2 * np.pi * 0.25)
        pdf5 = tf.exp(-0.5 * v5 * v5) / tf.sqrt(2 * np.pi * 0.25)
        pdf6 = tf.exp(-0.5 * v6 * v6) / tf.sqrt(2 * np.pi * 0.25)
        return -tf.log((pdf1 + pdf2 + pdf3 + pdf4 + pdf5 + pdf6) / 6)
```

项目: simple_rl 作者: david-abel | 项目源码 (https://github.com/david-abel/simple_rl) | 文件源码 (https://github.com/david-abel/simple_rl/tree/master/simple_rl/agents/bandits/LinUCBAgentClass.py)

```
def _compute_score(self, context):
        Args:
            context (list)
        Returns:
            (dict):
                K (str): action
                V (float): score
        a inv = self.model['act inv']
        theta = self.model['theta']
        estimated reward = {}
        uncertainty = {}
        score dict = {}
        max\_score = 0
        for action_id in xrange(len(self.actions)):
            action context = np.reshape(context[action id], (-1, 1))
            estimated_reward[action_id] = float(theta[action_id].T.dot(acti
on context))
            uncertainty[action id] = float(self.alpha * np.sqrt(action cont
ext.T.dot(a_inv[action_id]).dot(action_context)))
            score dict[action id] = estimated reward[action id] + uncertain
ty[action_id]
        return score dict
```

项目: shift-detect **作者:** paolodedios | 项目源码 (https://github.com/paolodedios/shift-detect) | 文件源码 (https://github.com/paolodedios/shift-detect/tree/master/src/main/python/shift_detect/rulsif.py)

```
def getMedianDistanceBetweenSamples(self, sampleSet=None) :
        Jaakkola's heuristic method for setting the width parameter of the Ge
       radial basis function kernel is to pick a quantile (usually the media
       the distribution of Euclidean distances between points having differe
        labels.
        Reference:
        Jaakkola, M. Diekhaus, and D. Haussler. Using the Fisher kernel metho
        remote protein homologies. In T. Lengauer, R. Schneider, P. Bork, D.
       Glasgow, H.- W. Mewes, and R. Zimmer, editors, Proceedings of the Sev
        International Conference on Intelligent Systems for Molecular Biology
        .....
        numrows = sampleSet.shape[0]
        samples = sampleSet
       G = sum((samples * samples), 1)
       Q = numpy.tile(G[:, None], (1, numrows))
       R = numpy.tile(G, (numrows, 1))
        distances = Q + R - 2 * numpy.dot(samples, samples.T)
        distances = distances - numpy.tril(distances)
        distances = distances.reshape(numrows**2, 1, order="F").copy()
       return numpy.sqrt(0.5 * numpy.median(distances[distances > 0]))
```

项目: deep_architect 作者: negrinho | 项目源码 (https://github.com/negrinho/deep_architect) | 文件源码 (https://github.com/negrinho/deep_architect/tree/master/darch/datasets.py)

```
def per_image_whiten(X):
    """ Subtracts the mean of each image in X and renormalizes them to unit
norm.

"""
    num_examples, height, width, depth = X.shape

X_flat = X.reshape((num_examples, -1))
X_mean = X_flat.mean(axis=1)
X_cent = X_flat - X_mean[:, None]
X_norm = np.sqrt( np.sum( X_cent * X_cent, axis=1) )
X_out = X_cent / X_norm[:, None]
X_out = X_out.reshape(X.shape)

return X_out

# Assumes the following ordering for X: (num_images, height, width, num_cha nnels)
```

项目: deep_architect 作者: negrinho | 项目源码 (https://github.com/negrinho/deep_architect) | 文件源码 (https://github.com/negrinho/deep_architect/tree/master/darch/modules.py)

```
def compile(self, in x, train feed, eval feed):
        n = np.product(self.in d)
        m, param init fn = [dom[i] for (dom, i) in zip(self.domains, self.c
hosen)]
        \#sc = np.sqrt(6.0) / np.sqrt(m + n)
        #W = tf.Variable(tf.random uniform([n, m], -sc, sc))
        W = tf.Variable( param_init_fn( [n, m] ) )
        b = tf.Variable(tf.zeros([m]))
        # if the number of input dimensions is larger than one, flatten the
        # input and apply the affine transformation.
        if len(self.in_d) > 1:
            in x flat = tf.reshape(in x, shape=[-1, n])
            out y = tf.add(tf.matmul(in x flat, W), b)
            out_y = tf.add(tf.matmul(in_x, W), b)
        return out_y
# computes the output dimension based on the padding scheme used.
# this comes from the tensorflow documentation
```

项目: pycma 作者: CMA-ES | 项目源码 (https://github.com/CMA-

ES/pycma) | 文件源码 (https://github.com/CMA-

ES/pycma/tree/master/cma/sigma_adaptation.py)

```
def update ps(self, es):
        if not self.is initialized:
            self.initialize(es)
        if self._ps_updated_iteration == es.countiter:
            return
        z = es.sm.transform inverse((es.mean - es.mean old) / es.sigma vec.
scaling)
        # works unless a re-parametrisation has been done
        # assert Mh.vequals approximately(z, np.dot(es.B, (1. / es.D) *
                  np.dot(es.B.T, (es.mean - es.mean_old) / es.sigma_vec)))
        z *= es.sp.weights.mueff**0.5 / es.sigma / es.sp.cmean
        # 2222222222222222222222222222
        if es.opts['CSA clip length value'] is not None:
            vals = es.opts['CSA_clip_length_value']
            min len = es.N**0.5 + vals[0] * es.N / (es.N + 2)
            \max len = es.N**0.5 + vals[1] * es.N / (es.N + 2)
            act len = sum(z**2)**0.5
            new_len = Mh.minmax(act_len, min_len, max_len)
            if new len != act len:
                z *= new len / act len
                \# z *= (es.N / sum(z**2))**0.5 \# ==> sum(z**2) == es.N
                # z *= es.const.chiN / sum(z**2)**0.5
        self.ps = (1 - self.cs) * self.ps + np.sqrt(self.cs * (2 - self.cs)
) * z
        self. ps updated iteration = es.countiter
```

项目: pycma 作者: CMA-ES | 项目源码 (https://github.com/CMA-ES/pycma) | 文件源码 (https://github.com/CMA-

ES/pycma/tree/master/cma/evolution_strategy.py)

```
def result pretty(self, number of runs=0, time str=None,
                      fbestever=None):
        """pretty print result.
       Returns `result` of ``self``.
        .....
        if fbestever is None:
            fbestever = self.best.f
        s = (' after %i restart' + ('s' if number_of_runs > 1 else '')) \
            % number of runs if number of runs else ''
        for k, v in self.stop().items():
            print('termination on %s=%s%s' % (k, str(v), s +
                  (' (%s)' % time_str if time_str else '')))
       print('final/bestever f-value = %e %e' % (self.best.last.f,
                                                  fbestever))
        if self.N < 9:
            print('incumbent solution: ' + str(list(self.gp.pheno(self.mean
, into bounds=self.boundary handler.repair))))
            print('std deviation: ' + str(list(self.sigma * self.sigma vec.
scaling * np.sqrt(self.dC) * self.gp.scales)))
       else:
            print('incumbent solution: %s ...]' % (str(self.gp.pheno(self.m
ean, into_bounds=self.boundary_handler.repair)[:8])[:-1]))
            print('std deviations: %s ...]' % (str((self.sigma * self.sigma
_vec.scaling * np.sqrt(self.dC) * self.gp.scales)[:8])[:-1]))
       return self.result
```

项目: pycma 作者: CMA-ES | 项目源码 (https://github.com/CMA-ES/pycma) | 文件源码 (https://github.com/CMA-ES/pycma/tree/master/cma/evolution_strategy.py)

```
def isotropic mean shift(self):
        """normalized last mean shift, under random selection N(0,I)
        distributed.
       Caveat: while it is finite and close to sqrt(n) under random
        selection, the length of the normalized mean shift under
        *systematic* selection (e.g. on a linear function) tends to
        infinity for mueff -> infty. Hence it must be used with great
        care for large mueff.
        z = self.sm.transform inverse((self.mean - self.mean old) /
                                      self.sigma vec.scaling)
       # works unless a re-parametrisation has been done
        # assert Mh.vequals approximately(z, np.dot(es.B, (1. / es.D) *
                  np.dot(es.B.T, (es.mean - es.mean old) / es.sigma vec)))
        z /= self.sigma * self.sp.cmean
        z *= self.sp.weights.mueff**0.5
        return z
```

项目: pycma 作者: CMA-ES | 项目源码 (https://github.com/CMA-ES/pycma) | 文件源码 (https://github.com/CMA-

ES/pycma/tree/master/cma/restricted_gaussian_sampler.py)

```
def __init__(self, dimension, randn=np.random.randn, debug=False):
        """pass dimension of the underlying sample space
        try:
            self.N = len(dimension)
            std_vec = np.array(dimension, copy=True)
        except TypeError:
            self.N = dimension
            std vec = np.ones(self.N)
        if self.N < 10:
            print('Warning: Not advised to use VD-CMA for dimension < 10.')</pre>
        self.randn = randn
        self.dvec = std vec
        self.vvec = self.randn(self.N) / math.sqrt(self.N)
        self.norm v2 = np.dot(self.vvec, self.vvec)
        self.norm v = np.sqrt(self.norm v2)
        self.vn = self.vvec / self.norm v
        self.vnn = self.vn**2
        self.pc = np.zeros(self.N)
        self. debug = debug # plot covariance matrix
```

项目: pycma 作者: CMA-ES | 项目源码 (https://github.com/CMA-

ES/pycma) | 文件源码 (https://github.com/CMA-

ES/pycma/tree/master/cma/bbobbenchmarks.py)

```
def evalfull(self, x):
        fadd = self.fopt
        curshape, dim = self.shape(x)
        # it is assumed x are row vectors
        if self.lastshape != curshape:
            self.initwithsize(curshape, dim)
        # BOUNDARY HANDLING
        # TRANSFORMATION IN SEARCH SPACE
        x = x - self.arrxopt
        x = monotoneTFosc(x)
        idx = (x > 0)
        x[idx] = x[idx] ** (1 + self.arrexpo[idx] * np.sqrt(x[idx]))
        x = self.arrscales * x
        # COMPUTATION core
        ftrue = 10 * (self.dim - np.sum(np.cos(2 * np.pi * x), -1)) + np.su
m(x ** 2, -1)
        fval = self.noise(ftrue) # without noise
        # FINALIZE
        ftrue += fadd
        fval += fadd
        return fval, ftrue
```

项目: TDOSE 作者: kasperschmidt | 项目源码

(https://github.com/kasperschmidt/TDOSE) | 文件源码

(https://github.com/kasperschmidt/TDOSE/tree/master/tdose_utilities.py)

项目: pyballd 作者: Yurlungur | 项目源码

(https://github.com/Yurlungur/pyballd) | 文件源码

(https://github.com/Yurlungur/pyballd/tree/master/pyballd/domain.py)

```
def get_dXdr(self,X):
    "Derivative of compactified coordinate with respect to radial"
    L = self.L
    r_h = self.r_h
    num = ((X-1)**2)*np.sqrt((r_h*(X-1))**2 + (L*(X+1))**2)
    denom = 2*L*L*(1+X)
    dXdr = num/denom
    return dXdr
```

项目: pyballd 作者: Yurlungur | 项目源码

(https://github.com/Yurlungur/pyballd) | 文件源码

(https://github.com/Yurlungur/pyballd/tree/master/pyballd/domain.py)

```
def get_x_from_r(self,r):
    "x = 0 when r = rh"
    r_h = self.r_h
    x = np.sqrt(r**2 - r_h**2)
    return x
```

项目: pyballd 作者: Yurlungur | 项目源码

(https://github.com/Yurlungur/pyballd) | 文件源码

(https://github.com/Yurlungur/pyballd/tree/master/pyballd/domain.py)

```
def get_r_from_x(self,x):
    "x = 0 when r = rh"
    r_h = self.r_h
    r = np.sqrt(x**2 + r_h**2)
    return r
```

项目: pyballd 作者: Yurlungur | 项目源码

(https://github.com/Yurlungur/pyballd) | 文件源码

(https://github.com/Yurlungur/pyballd/tree/master/pyballd/orthopoly.py)

项目: pyballd 作者: Yurlungur | 项目源码

(https://github.com/Yurlungur/pyballd) | 文件源码

(https://github.com/Yurlungur/pyballd/tree/master/pyballd/orthopoly.py)

```
def norm2(self,grid_func):
    """Calculates the 2norm of grid_func"""
    factor = np.prod([(s.xmax-s.xmin) for s in self.stencils])
    integral = self.inner_product(grid_func,grid_func) / factor
    norm2 = np.sqrt(integral)
    return norm2
```

项目: GELUs 作者: hendrycks | 项目源码

(https://github.com/hendrycks/GELUs) | 文件源码

(https://github.com/hendrycks/GELUs/tree/master/nn.py)

```
def fit(self, x):
    s = x.shape
    x = x.copy().reshape((s[0],np.prod(s[1:])))
    m = np.mean(x, axis=0)
    x -= m
    sigma = np.dot(x.T,x) / x.shape[0]
    U, S, V = linalg.svd(sigma)
    tmp = np.dot(U, np.diag(1./np.sqrt(S+self.regularization)))
    tmp2 = np.dot(U, np.diag(np.sqrt(S+self.regularization)))
    self.ZCA_mat = th.shared(np.dot(tmp, U.T).astype(th.config.floatX))
    self.inv_ZCA_mat = th.shared(np.dot(tmp2, U.T).astype(th.config.floatX))
    self.mean = th.shared(m.astype(th.config.floatX))
```

项目: pylspm 作者: Iseman | 项目源码

(https://github.com/lseman/pylspm) | 文件源码

(https://github.com/lseman/pylspm/tree/master/pylspm/pylspm.py)

```
def normaliza(self, X):
    correction = np.sqrt((len(X) - 1) / len(X)) # std factor corretion
    mean_ = np.mean(X, 0)
    scale_ = np.std(X, 0)
    X = X - mean_
    X = X / (scale_ * correction)
    return X
```

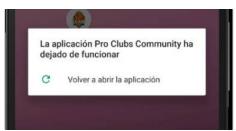
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